

# ThinkCentre® U.S.

## Product Specifications Reference

Type-model	Processor	Memory	Display	Multi-touch	Camera	Drive	SATA	RAID	M.2 Card	WLAN	M.2 SSD	Smart card reader	Finger reader	Smart battery	OS	Ann. Date
20A9000UUS	I7-4500U	4+4GB	14.0" FHD		720p	128GB SSD		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9000VUS	I5-4300U	4+4GB	14.0" FHD		720p	128GB SSD		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9000WUS	I5-4300U	4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9000XUS	I5-4300U	4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9000YUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9001UUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9001VUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9001WUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9001XUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9001YUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9002UUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9002VUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9002WUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9002XUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	
20A9002YUS	I7-4500U	4+4GB	14.0" FHD		720p	500GB 720p		Backlit	2560 ac upg			None	None	3 vPro	Windows Pro64 09/13	

## Version 468, February 2015

## ThinkCentre® Desktops

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WHO DO.

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# Summary of Changes

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This section describes the technical changes made in this edition.

This edition might also include minor corrections and editorial changes which are not identified.

## February 11, 2015 - Version 468

### Additions in this update

► **New model(s)**

ThinkCentre M53 Tiny new models announced February 2015

ThinkCentre M73z AIO new models announced February 2015

ThinkCentre M73 Tiny new models announced February 2015

ThinkCentre M83 SFF Pro new models announced February 2015

ThinkCentre M79 SFF and Tower new models announced February 2015

## Recently Launched Think Accessories



ThinkPad Compact Bluetooth Keyboard with Trackpoint  
(PN: 0B47189)



Lenovo Wireless TouchPad for Windows 8  
(PN: 0A33909)



ThinkPad Noise Cancelling Earbuds  
(PN: 0B47313)

## Additional Think Accessories



ThinkPad USB 3.0 Portable Secure HDD (500GB , 750GB, 1TB)  
(PN: 0A65619, 0A65616, 0A65621)



Kensington MicroSaver Security Cable Lock from Lenovo  
(PN: 73P2582)



Lenovo Ultralim Wireless Keyboard and Mouse Combo  
(PN: 0A34032)

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LENOVO THINK ACCESSORIES

Lenovo Quick Pick (<http://www.lenovoquickpick.com/>) is an options compatibility configurator for Lenovo systems.

For more information on the various ThinkCentre systems, please see below :

<p><b><u>ThinkCentre M32</u></b>  <b>M32 Thin Client 10BM/10BV</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m32-thin-client">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m32-thin-client</a></p>	<p><b><u>ThinkCentre M73z</u></b>  <b>M73z AIO 10BB/10BC</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73z-aio">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73z-aio</a></p>
<p><b><u>ThinkCentre M73</u></b>  <b>M73 Tiny 10AX/10AY</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-tiny">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-tiny</a>  <b>M73 Small 10B4/10B5/10B6/10B7</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-sff">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-sff</a>  <b>M73 Tower 10B0/10B1/10B2/10B3</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-tower">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73-tower</a></p>	<p><b><u>ThinkCentre M93z</u></b>  <b>M93z AIO 10AC/10AD/10AE/10AF</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93z-aio">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93z-aio</a></p>
<p><b><u>ThinkCentre M78</u></b>  <b>M78 Small 10BS/10BT/10BU</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-sff">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-sff</a>  <b>M78 Tower 10BN/10BQ/10BR</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-tower">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m78-tower</a></p>	<p><b><u>ThinkCentre Edge 62z</u></b>  <b>Edge 62z AIO 2117</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/e-series/edge-62z-aio">www.lenovoquickpick.com/usa/system/thinkcentre/e-series/edge-62z-aio</a></p>
<p><b><u>ThinkCentre M79</u></b>  <b>M79 Small 10CT/10CU/10CV/10CW</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m79-sff">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m79-sff</a>  <b>M79 Tower 10CN/10CQ/10CR/10CS</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m79-tower">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m79-tower</a></p>	<p><b><u>ThinkCentre E63z</u></b>  <b>E63z AIO 10D4/10D5/10D6/10D7</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e63z-aio">www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e63z-aio</a></p>
<p><b><u>ThinkCentre M83</u></b>  <b>M83 Small 10AH/10AJ/10AM/10AN</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m83-sff">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m83-sff</a>  <b>M83 Tower 10AG/10AK/10AL/10BE</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m83-tower">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m83-tower</a></p>	<p><b><u>ThinkCentre E93z</u></b>  <b>E93z AIO 10B8/10B9/10BA/10BH/10BJ/10BK</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e93z-aio">www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e93z-aio</a></p>
<p><b><u>ThinkCentre M93/M93p</u></b>  <b>M93/M93p Tiny 10A4/10A5/10AA/10AB</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tiny">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tiny</a>  <b>M93/M93p Small 10A2/10A3/10A8/10A9</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-sff">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-sff</a>  <b>M93/M93p Tower 10A0/10A1/10A6/10A7</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tower">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tower</a></p>	
<p><b><u>ThinkCentre E73</u></b>  <b>E73 Small 10AU/10AW/10BF/10BG</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-sff">www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-sff</a>  <b>E73 Tower 10AS/10AV</b>  <a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-tower">www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-tower</a></p>	



ThinkCentre TIO 23



ThinkCentre TIO 23 with optional 9.5mm ODD



ThinkCentre TIO 23 with optional Tiny



ThinkCentre TIO 23



ThinkCentre TIO 23 with optional 9.5mm ODD



3-in-1 cable  
(USB / DP / Power)

# ThinkCentre Tiny-in-One (TIO) 23

Product Specifications Reference (PSREF)

Model	10DQPAR6US			Mounting features	Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount) <i>Tilt: 35° back, -5° forward; lift: 4.3" (110mm); swivel: +/-45°</i>			
Form factor	Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO 23, clean cabling and effortless setup			Adjustable stand				
Compatible Tiny:	M93/p Tiny, M83 Tiny, M73 Tiny, or M53 Tiny * Processor, memory, storage, operating system, WLAN, Bluetooth, Keyboard, mouse, etc., depend on the Tiny installed (optional)			Power supply	90 watts AC/DC adapter, 88% PSU, universal			
Panel	TFT-LCD, twisted nematic (TN), White LED backlight			Power consumption	22 watts typical, 45 watts maximum, <0.5 watts standby / suspend			
Viewable image size	23.0" (584.2mm) diagonal			Limited warranty <sup>3</sup>	<b>3-years</b> , Customer Carry-In Exchange (CCE) via Rapid Replacement, IWS (International Warranty Service <sup>3</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>			
Max view area (W x H)	20.05" x 11.28" / 509.2mm x 286.4mm			VESA-compliant <sup>2</sup>	VESA DDC2B/CI, VESA DPMS-compliant			
Optimum resolution	<b>1920x1080</b>			Ergonomics	ISO 9241-307			
Aspect ratio	16:9			Emission standards	MPR-2, FCC Class B			
Pixel pitch (mm)	.265mm			Environmental	TCO (TCO Certified Edge 1.1), WEEE, RoHS, ENERGY STAR® 6.0 EPEAT™ Gold rating, ULE, TUV			
Dot/Pixel per Inch	96 dpi			Windows certifications	Windows 7, Windows 8, and Windows 8.1 certified			
Brightness	250 nits or cd/m <sup>2</sup> (typical)			Ship group	TIO 23 (Monitor), detachable stand, Information flyer, Reference and driver CD, AC/DC power adapter, power cord, quickly-released screw			
Contrast ratio	1000:1 (typical)			Accessories	For compatible accessories, please go to TC-AQP sheet			
Pixel response time	5ms (typical)							
Color gamut	72%							
Anti-reflective	Anti-glare							
Horizontal frequency	30 to 83kHz							
Vertical frequency	50 to 75Hz							
Viewing angle at 10:1 CR	170° (+/- 85°) horizontal, 160° (+/- 80°) vertical							
Preset resolutions	640x350 @ 70Hz 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz 720x400 @ 70Hz 800x600 @ 60Hz, 72Hz, 75Hz 1024x768 @ 60Hz, 70Hz, 75Hz 1152x864 @ 75Hz 1280x800 @ 60Hz 1280x1024 @ 60Hz, 72Hz, 75Hz 1366x768 @ 60Hz 1440x900 @ 60Hz, 75Hz 1600x1200 @ 60Hz, 70Hz, 75Hz 1680x1050 @ 60Hz 1920x1080 @ 60Hz							
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# ThinkCentre M32 Thin Client



Lenovo ThinkCentre M32 Thin Client with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M32 Thin Client



Lenovo ThinkCentre M32 Thin Client



Lenovo ThinkCentre M32 Thin Client



Lenovo ThinkCentre M32 Thin Client (inside view)



Lenovo ThinkCentre M32 Thin Client

# ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 1-year depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0 Global	OS preload	Ann date (mm/dd/yy)
10BV0006US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS 09/03/13
10BV0009US	Celeron 807	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS 09/03/13
10BV0007US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 09/03/13
10BV0008US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 09/03/13
10BV000EUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS 12/10/13
10BV000FUS	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS 12/10/13
10BV000AUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 12/10/13
10BV000BUS	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 12/10/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year depot warranty

Positioning	<i>Mainstream Thin Client with better security and manageability for the enterprise</i>							<b>Preloaded operating system</b>				
Processor	<b>Intel® Celeron® Processor 807 (1 cores / 2 threads, 1.5GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Celeron Processor 847 (2 cores / 2 threads, 1.1GHz, 2MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology							Some: Genuine Windows® Embedded Standard 7 (WES 7) Some: LeTOS (Lenovo Terminal Operating System, Linux-based)				
Memory	4GB max, <b>PC3-12800 1600MHz DDR3*</b> , one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with 1333MHz DDR3 memory controller							<b>Preloaded applications (only some listed)</b> <b>- WES 7 only:</b> <ul style="list-style-type: none"> <li>• Intel Management Engine Components</li> <li>• RDP Client</li> <li>• Citrix Client</li> <li>• VMware Client</li> <li>• Internet Explorer 9</li> <li>• Java</li> <li>• Flash</li> <li>• .Net Framework</li> <li>• Microsoft® Silverlight</li> <li>• Echo Agent</li> <li>• Ultra VNC</li> <li>• Adobe Reader</li> <li>• Intel Manageability Engine Firmware Recovery Agent</li> </ul>				
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x2048 (DisplayPort) @60Hz; 2560x1600 (VGA) @60Hz Optional DisplayPort to Single-link DVI-D dongle							<b>- LeTOS only:</b> <ul style="list-style-type: none"> <li>• xFreeRDP</li> <li>• Citrix ICA Client</li> <li>• VMware View Client</li> <li>• Java</li> <li>• Mozilla Firefox</li> <li>• NX NoMachine Client</li> <li>• X11 Client</li> <li>• VDI-In-A-Box Java Client</li> <li>• AnyConnect VPN Client</li> </ul>				
DP dongle	Optional DisplayPort to Single-link DVI-D dongle											
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card											
Optical	None											
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset											
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card											
eSATA port	None											
Chipset	<b>Mobile Intel NM70 Express Chipset</b>											
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)											
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort											
PCIe Mini Card	None											
PCIe WLAN	None											
Bluetooth	None											
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec											
Speaker	None											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®							<b>Network-based Thin Client Management Tool</b> - Lenovo Thin Client Manager (LTM)* *A license is included with the purchase of M32 and the utility is downloadable from website				
Intel AMT	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
VESA mount	Supports VESA 100mm mount standard											
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU							<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Serial port and parallel port disablement</li> </ul>				
Machine	<ul style="list-style-type: none"> <li>• Business black color; USFF (2L)</li> <li>• Fan-less, Cable-less Design</li> <li>• (Without stand) 2.2" W X 6.7" D X 8.7" H</li> <li>• (Without stand) 55mm W X 170mm D X 220mm H</li> <li>• (Without stand) 3.3 lb (1.48 kg) in maximum configuration</li> </ul>											
Protocols	Citrix: Microsoft: VMWare:	ICA, HDX (compatible with XenDesktop and XenApp) RDP, RemoteFX (WES 7 models only), RDS VMware Horizon View through RDP VMware Horizon View through PCoIP					EPEAT™ Gold rating (WES models) ENERGY STAR® 6.0 (WES models) GREENGUARD® certified RoHS-compliant WEEE REACH VMWare Ready Certification Citrix Ready/HDX Ready Certification MS RemoteFX Certification (WES models)					
Limited Warranty	<b>1-years, depot repair service</b> / service upgrades available							For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

US model(s) announced September 3, 2013 or December 10, 2013

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(CLVL1-3) December 2013

# ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0 Global	OS preload	Ann date (mm/dd/yy)	
10BV0005US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0001US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Mainstream Thin Client with better security and manageability for the enterprise</i>							<b>Preloaded operating system</b>				
Processor	Intel® Celeron® Processor 807 (1 cores / 2 threads, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology							Some: Genuine Windows® Embedded Standard 7 (WES 7) Some: LeTOS (Lenovo Terminal Operating System, Linux-based)				
Memory	4GB max, <b>PC3-12800 1600MHz DDR3*</b> , one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with 1333MHz DDR3 memory controller							<b>Preloaded applications</b> (only some listed)				
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz</i> Optional DisplayPort to Single-link DVI-D dongle							<b>- WES 7 only:</b>				
DP dongle								<ul style="list-style-type: none"> <li>• Intel Management Engine Components</li> <li>• RDP Client</li> <li>• Citrix Client</li> <li>• VMware Client</li> <li>• Internet Explorer 9</li> <li>• Java</li> <li>• Flash</li> <li>• .Net Framework</li> <li>• Microsoft® Silverlight</li> <li>• Echo Agent</li> <li>• Ultra VNC</li> <li>• Adobe Reader</li> <li>• Intel Manageability Engine Firmware Recovery Agent</li> </ul>				
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card							<b>- LeTOS only:</b>				
Optical	None							<ul style="list-style-type: none"> <li>• xFreeRDP</li> <li>• Citrix ICA Client</li> <li>• VMware View Client</li> <li>• Java</li> <li>• Mozilla Firefox</li> <li>• NX NoMachine Client</li> <li>• X11 Client</li> <li>• VDI-In-A-Box Java Client</li> <li>• AnyConnect VPN Client</li> </ul>				
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset							<b>Network-based Thin Client Management Tool</b> - Lenovo Thin Client Manager (LTM)*				
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card							*A license is included with the purchase of M32 and the utility is downloadable from website				
eSATA port	None							<b>Security</b>				
Chipset	<b>Mobile Intel NM70 Express Chipset</b>							<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Serial port and parallel port disablement</li> </ul>				
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)							EPEAT™ Gold rating (WES models)				
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort							ENERGY STAR® 6.0 (WES models)				
PCIe Mini Card	None							GREENGUARD® certified				
PCIe WLAN	None							RoHS-compliant				
Bluetooth	None							WEEE				
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec							REACH				
Speaker	None							VMWare Ready Certification				
IEEE 1394	None							Citrix Ready/HDX Ready Certification				
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®							MS RemoteFX Certification (WES models)				
Intel AMT	None							For compatible accessories, please go to TC-AQP sheet;				
Modem	None							For Lenovo service upgrade options, please go to S-TC sheet				
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
VESA mount	Supports VESA 100mm mount standard											
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>• Business black color; USFF (2L)</li> <li>• Fan-less, Cable-less Design</li> <li>• (Without stand) 2.2" W X 6.7" D X 8.7" H</li> <li>• (Without stand) 55mm W X 170mm D X 220mm H</li> <li>• (Without stand) 3.3 lb (1.48 kg) in maximum configuration</li> </ul>											
Protocols	Citrix:	ICA, HDX (compatible with XenDesktop and XenApp)										
	Microsoft:	RDP, RemoteFX (WES 7 models only), RDS										
	VMWare:	VMware Horizon View through RDP VMware Horizon View through PCoIP										
Limited Warranty	<b>1-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											

See footnotes for important warranty information  
US model(s) announced September 3, 2013

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# ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 3-year onsite

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0 Global	OS preload	Ann date (mm/dd/yy)	
10BV0004US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BV0000US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV0002US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BV000GUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000HUS	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BV000CUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BV000DUS	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream Thin Client with better security and manageability for the enterprise</i>							<b>Preloaded operating system</b>				
Processor	<b>Intel® Celeron® Processor 807 (1 cores / 2 threads, 1.5GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Celeron Processor 847 (2 cores / 2 threads, 1.1GHz, 2MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology							Some: Genuine Windows® Embedded Standard 7 (WES 7) Some: LeTOS (Lenovo Terminal Operating System, Linux-based)				
Memory	4GB max, <b>PC3-12800 1600MHz DDR3*</b> , one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with 1333MHz DDR3 memory controller							<b>Preloaded applications (only some listed)</b> <b>- WES 7 only:</b> <ul style="list-style-type: none"> <li>● Intel Management Engine Components</li> <li>● RDP Client</li> <li>● Citrix Client</li> <li>● VMware Client</li> <li>● Internet Explorer 9</li> <li>● Java</li> <li>● Flash</li> <li>● .Net Framework</li> <li>● Microsoft® Silverlight</li> <li>● Echo Agent</li> <li>● Ultra VNC</li> <li>● Adobe Reader</li> <li>● Intel Manageability Engine Firmware Recovery Agent</li> </ul>				
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x2048 (DisplayPort) @60Hz; 2560x1600 (VGA) @60Hz Optional DisplayPort to Single-link DVI-D dongle							<b>- LeTOS only:</b> <ul style="list-style-type: none"> <li>● xFreeRDP</li> <li>● Citrix ICA Client</li> <li>● VMware View Client</li> <li>● Java</li> <li>● Mozilla Firefox</li> <li>● NX NoMachine Client</li> <li>● X11 Client</li> <li>● VDI-In-A-Box Java Client</li> <li>● AnyConnect VPN Client</li> </ul>				
DP dongle	Optional DisplayPort to Single-link DVI-D dongle											
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card											
Optical	None											
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset											
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card											
eSATA port	None											
Chipset	<b>Mobile Intel NM70 Express Chipset</b>											
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)											
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort											
PCIe Mini Card	None											
PCIe WLAN	None											
Bluetooth	None											
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec											
Speaker	None											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None							<b>Network-based Thin Client Management Tool</b> - Lenovo Thin Client Manager (LTM)* *A license is included with the purchase of M32 and the utility is downloadable from website				
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
VESA mount	Supports VESA 100mm mount standard											
Power supply	65 watts adapter, autosenesing 100-240V, 85% PSU							<b>Security</b> <ul style="list-style-type: none"> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Serial port and parallel port disablement</li> </ul>				
Machine	<ul style="list-style-type: none"> <li>● Business black color; USFF (2L)</li> <li>● Fan-less, Cable-less Design</li> <li>● (Without stand) 2.2" W X 6.7" D X 8.7" H</li> <li>● (Without stand) 55mm W X 170mm D X 220mm H</li> <li>● (Without stand) 3.3 lb (1.48 kg) in maximum configuration</li> </ul>											
Protocols	Citrix: Microsoft: VMWare:	ICA, HDX (compatible with XenDesktop and XenApp) RDP, RemoteFX (WES 7 models only), RDS VMware Horizon View through RDP VMware Horizon View through PCoIP					EPEAT™ Gold rating (WES models) ENERGY STAR® 6.0 (WES models) GREENGUARD® certified RoHS-compliant WEEE REACH VMWare Ready Certification Citrix Ready/HDX Ready Certification MS RemoteFX Certification (WES models)					
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available							For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US model(s) announced September 3, 2013 or December 10, 2013

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# ThinkCentre M32 (10BM) - Thin Client (1-year depot)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0 Global	OS preload	Ann date (mm/dd/yy)	
10BM0001US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BM0004US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BM000MUS	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13
10BM000TUS	Celeron 807	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0013US	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM0015US	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	12/10/13
10BM000YUS	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13
10BM0010US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	12/10/13

• 1-year depot warranty

Positioning	<i>Mainstream Thin Client with better security and manageability for the enterprise</i>							<b>Preloaded operating system</b>				
Processor	<b>Intel® Celeron® Processor 807 (1 cores / 2 threads, 1.5GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Celeron Processor 847 (2 cores / 2 threads, 1.1GHz, 2MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology							Some: Genuine Windows® Embedded Standard 7 (WES 7) Some: LeTOS (Lenovo Terminal Operating System, Linux-based)				
Memory	4GB max, <b>PC3-12800 1600MHz DDR3*</b> , one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with 1333MHz DDR3 memory controller							<b>Preloaded applications (only some listed)</b> <b>- WES 7 only:</b> <ul style="list-style-type: none"> <li>• Intel Management Engine Components</li> <li>• RDP Client</li> <li>• Citrix Client</li> <li>• VMware Client</li> <li>• Internet Explorer 9</li> <li>• Java</li> <li>• Flash</li> <li>• .Net Framework</li> <li>• Microsoft® Silverlight</li> <li>• Echo Agent</li> <li>• Ultra VNC</li> <li>• Adobe Reader</li> <li>• Intel Manageability Engine Firmware Recovery Agent</li> </ul>				
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x2048 (DisplayPort) @60Hz; 2560x1600 (VGA) @60Hz Optional DisplayPort to Single-link DVI-D dongle							<b>- LeTOS only:</b> <ul style="list-style-type: none"> <li>• xFreeRDP</li> <li>• Citrix ICA Client</li> <li>• VMware View Client</li> <li>• Java</li> <li>• Mozilla Firefox</li> <li>• NX NoMachine Client</li> <li>• X11 Client</li> <li>• VDI-In-A-Box Java Client</li> <li>• AnyConnect VPN Client</li> </ul>				
DP dongle	Optional DisplayPort to Single-link DVI-D dongle											
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card											
Optical	None											
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset											
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card											
eSATA port	None											
Chipset	<b>Mobile Intel NM70 Express Chipset</b>											
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)											
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort											
PCIe Mini Card	None											
PCIe WLAN	None											
Bluetooth	None											
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec											
Speaker	None											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None							<b>Network-based Thin Client Management Tool</b> - Lenovo Thin Client Manager (LTM)* *A license is included with the purchase of M32 and the utility is downloadable from website				
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
VESA mount	Supports VESA 100mm mount standard											
Power supply	65 watts adapter, autosenesing 100-240V, 85% PSU							<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Serial port and parallel port disablement</li> </ul>				
Machine	<ul style="list-style-type: none"> <li>• Business black color; USFF (2L)</li> <li>• Fan-less, Cable-less Design</li> <li>• (Without stand) 2.2" W X 6.7" D X 8.7" H</li> <li>• (Without stand) 55mm W X 170mm D X 220mm H</li> <li>• (Without stand) 3.3 lb (1.48 kg) in maximum configuration</li> </ul>											
Protocols	Citrix: Microsoft: VMWare:	ICA, HDX (compatible with XenDesktop and XenApp) RDP, RemoteFX (WES 7 models only), RDS VMware Horizon View through RDP VMware Horizon View through PCoIP					EPEAT™ Gold rating (WES models) ENERGY STAR® 6.0 (WES models) GREENGUARD® certified RoHS-compliant WEEE REACH VMWare Ready Certification Citrix Ready/HDX Ready Certification MS RemoteFX Certification (WES models)					
Limited Warranty	<b>1-years, depot repair service</b> / service upgrades available							For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

US model(s) announced September 3, 2013 or December 10, 2013

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(CLVL1-6) December 2013

# ThinkCentre M32 (10BM) - Thin Client (1-year onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0 Global	OS preload	Ann date (mm/dd/yy)	
10BM0000US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS	09/03/13
10BM0002US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7	09/03/13

• 1-year limited warranty

Positioning	<i>Mainstream Thin Client with better security and manageability for the enterprise</i>							<b>Preloaded operating system</b>				
Processor	Intel® Celeron® Processor 807 (1 cores / 2 threads, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology							Some: Genuine Windows® Embedded Standard 7 (WES 7) Some: LeTOS (Lenovo Terminal Operating System, Linux-based)				
Memory	4GB max, <b>PC3-12800 1600MHz DDR3*</b> , one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with 1333MHz DDR3 memory controller							<b>Preloaded applications</b> (only some listed)				
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x2048 (DisplayPort)@60Hz; 2560x1600 (VGA)@60Hz</i> Optional DisplayPort to Single-link DVI-D dongle							<b>- WES 7 only:</b>				
DP dongle								<ul style="list-style-type: none"> <li>• Intel Management Engine Components</li> <li>• RDP Client</li> <li>• Citrix Client</li> <li>• VMware Client</li> <li>• Internet Explorer 9</li> <li>• Java</li> <li>• Flash</li> <li>• .Net Framework</li> <li>• Microsoft® Silverlight</li> <li>• Echo Agent</li> <li>• Ultra VNC</li> <li>• Adobe Reader</li> <li>• Intel Manageability Engine Firmware Recovery Agent</li> </ul>				
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card							<b>- LeTOS only:</b>				
Optical	None							<ul style="list-style-type: none"> <li>• xFreeRDP</li> <li>• Citrix ICA Client</li> <li>• VMware View Client</li> <li>• Java</li> <li>• Mozilla Firefox</li> <li>• NX NoMachine Client</li> <li>• X11 Client</li> <li>• VDI-In-A-Box Java Client</li> <li>• AnyConnect VPN Client</li> </ul>				
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset							<b>Network-based Thin Client Management Tool</b> - Lenovo Thin Client Manager (LTM)*				
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card							*A license is included with the purchase of M32 and the utility is downloadable from website				
eSATA port	None							<b>Security</b>				
Chipset	<b>Mobile Intel NM70 Express Chipset</b>							<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Serial port and parallel port disablement</li> </ul>				
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)							EPEAT™ Gold rating (WES models)				
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort							ENERGY STAR® 6.0 (WES models)				
PCIe Mini Card	None							GREENGUARD® certified				
PCIe WLAN	None							RoHS-compliant				
Bluetooth	None							WEEE				
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec							REACH				
Speaker	None							VMWare Ready Certification				
IEEE 1394	None							Citrix Ready/HDX Ready Certification				
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®							MS RemoteFX Certification (WES models)				
Intel AMT	None							For compatible accessories, please go to TC-AQP sheet;				
Modem	None							For Lenovo service upgrade options, please go to S-TC sheet				
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
VESA mount	Supports VESA 100mm mount standard											
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>• Business black color; USFF (2L)</li> <li>• Fan-less, Cable-less Design</li> <li>• (Without stand) 2.2" W X 6.7" D X 8.7" H</li> <li>• (Without stand) 55mm W X 170mm D X 220mm H</li> <li>• (Without stand) 3.3 lb (1.48 kg) in maximum configuration</li> </ul>											
Protocols	Citrix:	ICA, HDX (compatible with XenDesktop and XenApp)										
	Microsoft:	RDP, RemoteFX (WES 7 models only), RDS										
	VMWare:	VMware Horizon View through RDP VMware Horizon View through PCoIP										
Limited Warranty	<b>1-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											

See footnotes for important warranty information  
US model(s) announced September 3, 2013

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# ThinkCentre M32 (10BM) - Thin Client (3-year onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0 Global	OS preload	Ann date (mm/dd/yy)
10BM0006US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS 09/03/13
10BM0005US	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 09/03/13
10BM0003US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 09/03/13
10BM0008US	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 09/03/13
10BM000RUS	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS 12/10/13
10BM0014US	Celeron 847	4GBx1	1G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	None	None	LeTOS 12/10/13
10BM0011US	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 12/10/13
10BM0012US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	None	Floor stand	USB	ES6.0	None	WES 7 12/10/13

●3-year limited warranty

Positioning	<i>Mainstream Thin Client with better security and manageability for the enterprise</i>							<b>Preloaded operating system</b>									
Processor	<b>Intel® Celeron® Processor 807 (1 cores / 2 threads, 1.5GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Celeron Processor 847 (2 cores / 2 threads, 1.1GHz, 2MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology							Some: Genuine Windows® Embedded Standard 7 (WES 7) Some: LeTOS (Lenovo Terminal Operating System, Linux-based)									
Memory	4GB max, <b>PC3-12800 1600MHz DDR3*</b> , one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with 1333MHz DDR3 memory controller							<b>Preloaded applications (only some listed)</b> <b>- WES 7 only:</b> <ul style="list-style-type: none"> <li>Intel Management Engine Components</li> <li>RDP Client</li> <li>Citrix Client</li> <li>VMware Client</li> <li>Internet Explorer 9</li> <li>Java</li> <li>Flash</li> <li>.Net Framework</li> <li>Microsoft® Silverlight</li> <li>Echo Agent</li> <li>Ultra VNC</li> <li>Adobe Reader</li> <li>Intel Manageability Engine Firmware Recovery Agent</li> </ul>									
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x2048 (DisplayPort) @60Hz; 2560x1600 (VGA) @60Hz Optional DisplayPort to Single-link DVI-D dongle							<b>- LeTOS only:</b> <ul style="list-style-type: none"> <li>xFreeRDP</li> <li>Citrix ICA Client</li> <li>VMware View Client</li> <li>Java</li> <li>Mozilla Firefox</li> <li>NX NoMachine Client</li> <li>X11 Client</li> <li>VDI-In-A-Box Java Client</li> <li>AnyConnect VPN Client</li> </ul>									
DP dongle	Optional DisplayPort to Single-link DVI-D dongle																
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card																
Optical	None																
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset																
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card																
eSATA port	None																
Chipset	<b>Mobile Intel NM70 Express Chipset</b>																
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)																
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort																
PCIe Mini Card	None							<b>Network-based Thin Client Management Tool</b> - Lenovo Thin Client Manager (LTM)* *A license is included with the purchase of M32 and the utility is downloadable from website									
PCIe WLAN	None																
Bluetooth	None																
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec																
Speaker	None																
IEEE 1394	None																
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®																
Intel AMT	None																
Modem	None																
Security chip	None																
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo							<b>Security</b> <ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Serial port and parallel port disablement</li> </ul>									
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo																
Floor Stand	System floor stand for vertical orientation																
VESA mount	Supports VESA 100mm mount standard																
Power supply	65 watts adapter, autosenesing 100-240V, 85% PSU																
Machine	<ul style="list-style-type: none"> <li>Business black color; USFF (2L)</li> <li>Fan-less, Cable-less Design</li> <li>(Without stand) 2.2" W X 6.7" D X 8.7" H</li> <li>(Without stand) 55mm W X 170mm D X 220mm H</li> <li>(Without stand) 3.3 lb (1.48 kg) in maximum configuration</li> </ul>																
Protocols	Citrix: Microsoft: VMWare:	ICA, HDX (compatible with XenDesktop and XenApp) RDP, RemoteFX (WES 7 models only), RDS VMware Horizon View through RDP VMware Horizon View through PCoIP					EPEAT™ Gold rating (WES models) ENERGY STAR® 6.0 (WES models) GREENGUARD® certified RoHS-compliant WEEE REACH VMWare Ready Certification Citrix Ready/HDX Ready Certification MS RemoteFX Certification (WES models)										
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US model(s) announced September 3, 2013 or December 10, 2013

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 (CLVL1-5) December 2013

# ThinkCentre M32 (10BM) - Thin Client (GMP)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Flash Memory	Optical	Graphics	DP to DVI dongle	Floor stand	Key-board/ Mouse	ENERGY STAR 6.0	Global (G) GMP (P)	OS preload	Ann date (mm/dd/yy)
10BM0009US	Celeron 807	2GBx1	1G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	None	G P	LeTOS	09/03/13
10BM000AUS	Celeron 807	2GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES6.0	G P	WES 7	09/03/13
10BM000BUS	Celeron 807	4GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES6.0	G P	WES 7	09/03/13
10BM0017US	Celeron 847	2GBx1	1G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	None	G P	LeTOS	12/24/13
10BM0018US	Celeron 847	2GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES6.0	G P	WES 7	12/24/13
10BM0019US	Celeron 847	4GBx1	8G DOM Card	None	Intel HD Graphics	DP to DVI	Floor stand	USB	ES6.0	G P	WES 7	12/24/13

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
- 3-year limited warranty

Positioning	<i>Mainstream Thin Client with better security and manageability for the enterprise</i>							<b>Preloaded operating system</b>				
Processor	<b>Intel® Celeron® Processor 807 (1 cores / 2 threads, 1.5GHz, 1.5MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Celeron Processor 847 (2 cores / 2 threads, 1.1GHz, 2MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology							Some: Genuine Windows® Embedded Standard 7 (WES 7) Some: LeTOS (Lenovo Terminal Operating System, Linux-based)				
Memory	4GB max, <b>PC3-12800 1600MHz DDR3*</b> , one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with 1333MHz DDR3 memory controller							<b>Preloaded applications (only some listed)</b> <b>- WES 7 only:</b> <ul style="list-style-type: none"> <li>● Intel Management Engine Components</li> <li>● RDP Client</li> <li>● Citrix Client</li> <li>● VMware Client</li> <li>● Internet Explorer 9</li> <li>● Java</li> <li>● Flash</li> <li>● .Net Framework</li> <li>● Microsoft® Silverlight</li> <li>● Echo Agent</li> <li>● Ultra VNC</li> <li>● Adobe Reader</li> <li>● Intel Manageability Engine Firmware Recovery Agent</li> </ul>				
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x2048 (DisplayPort) @60Hz; 2560x1600 (VGA) @60Hz</i> Optional DisplayPort to Single-link DVI-D dongle							<b>- LeTOS only:</b> <ul style="list-style-type: none"> <li>● xFreeRDP</li> <li>● Citrix ICA Client</li> <li>● VMware View Client</li> <li>● Java</li> <li>● Mozilla Firefox</li> <li>● NX NoMachine Client</li> <li>● X11 Client</li> <li>● VDI-In-A-Box Java Client</li> <li>● AnyConnect VPN Client</li> </ul>				
DP dongle	Optional DisplayPort to Single-link DVI-D dongle											
Flash Memory	1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card											
Optical	None											
SATA controller	Serial ATA, SATA 3.0Gb/s support, integrated in chipset											
Onboard SATA	one SATA 3.0Gb/s connector for DOM Card											
eSATA port	None											
Chipset	<b>Mobile Intel NM70 Express Chipset</b>											
Front ports	Four USB 2.0, microphone (3.5mm), headphone (3.5mm)											
Rear ports	Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort											
PCIe Mini Card	None											
PCIe WLAN	None											
Bluetooth	None											
Audio	High Definition (HD) Audio, Realtek® ALC662-VD codec											
Speaker	None											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111F, Wake on LAN®											
Intel AMT	None											
Modem	None											
Security chip	None							<b>Network-based Thin Client Management Tool</b> - Lenovo Thin Client Manager (LTM)* *A license is included with the purchase of M32 and the utility is downloadable from website				
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	System floor stand for vertical orientation											
VESA mount	Supports VESA 100mm mount standard											
Power supply	65 watts adapter, autosensing 100-240V, 85% PSU							<b>Security</b> <ul style="list-style-type: none"> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Serial port and parallel port disablement</li> </ul>				
Machine	<ul style="list-style-type: none"> <li>● Business black color; USFF (2L)</li> <li>● Fan-less, Cable-less Design</li> <li>● (Without stand) 2.2" W X 6.7" D X 8.7" H</li> <li>● (Without stand) 55mm W X 170mm D X 220mm H</li> <li>● (Without stand) 3.3 lb (1.48 kg) in maximum configuration</li> </ul>											
Protocols	Citrix: Microsoft: VMWare:	ICA, HDX (compatible with XenDesktop and XenApp) RDP, RemoteFX (WES 7 models only), RDS VMware Horizon View through RDP VMware Horizon View through PCoIP					EPEAT™ Gold rating (WES models) ENERGY STAR® 6.0 (WES models) GREENGUARD® certified RoHS-compliant WEEE REACH VMWare Ready Certification Citrix Ready/HDX Ready Certification MS RemoteFX Certification (WES models)					
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available							For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US model(s) announced September 3, 2013 or December 24, 2013

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 (CLVL1-7) January 2014



ThinkCentre M53 Tiny with optional floor stand, wireless keyboard/mouse, and monitor



ThinkCentre M53 Tiny with optional floor stand



ThinkCentre M53 Tiny with optional VESA mount kit



ThinkCentre M53 Tiny with optional optical box



ThinkCentre M53 Tiny with optional I/O box



ThinkCentre M53 Tiny

# ThinkCentre M53 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® Processor J1000 Series for Desktop or Intel Pentium® Processor J2000 Series for Desktop	Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li>M53 Tiny only:</li> <li>7.0" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>2.9 lb (1.3 kg), weight may vary by configuration</li> <li>With VESA mount &amp; optical box:</li> <li>7.2" W X 7.2" D X 2.55" H</li> <li>184mm W X 182mm D X 65mm H</li> <li>4.6 lb (2.1 kg), weight may vary by configuration</li> <li>Optional VESA mount bracket kit, supports VESA 75mm and 100mm</li> <li>Optional system floor stand for vertical orientation</li> </ul>																		
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Max/Base)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron J1800</td> <td>2 / 2</td> <td>2.58 / 2.41 GHz</td> <td>1MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.58 / 2.41 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD	Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD	VESA mount Floor Stand	Optional system floor stand for vertical orientation
Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics																
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD																
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD																
Chipset	Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																		
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable	Limited warranty <sup>3</sup>	<i>Some:</i> 1-year, depot service / service upgrades available <i>Some:</i> 1-year or 3-year, limited onsite service / service upgrades available <i>Some:</i> 3-year, limited onsite service, IWS (International Warranty Service <sup>9</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>																		
Monitor cable	Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable	Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 8.1 with Bing 64-bit Ready to install applications (for Win7) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> Web install applications (for Win8.1) <ul style="list-style-type: none"> <li>Password Manager</li> </ul> Preloaded applications (only some listed) <ul style="list-style-type: none"> <li>For both Windows 7 and Windows 8.1                             <ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>Desktop Power Manager</li> <li>Lenovo Solution Center</li> <li>Lenovo Support</li> <li>Lenovo Companion</li> <li>Lenovo Reach</li> <li>Lenovo SHAREit</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote®</li> <li>Nitro Pro</li> </ul> </li> <li>Only for Windows 7:                             <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>View Management Utility</li> <li>Lenovo Message Center Plus</li> </ul> </li> <li>Only for Windows 8.1:                             <ul style="list-style-type: none"> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>AccuWeather</li> <li>Norton™ Studio</li> <li>Pokki</li> <li>Hightail</li> </ul> </li> </ul>																		
Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller		<i>Some:</i> Genuine Windows® Embedded Standard 7 (WES 7) <i>Some:</i> LeTOS (Lenovo Terminal Operating System, Linux-based) Preloaded applications (only some listed) <ul style="list-style-type: none"> <li>- WES 7 only:                             <ul style="list-style-type: none"> <li>Intel Management Engine Components</li> <li>RDP Client (RDP 8 support)</li> <li>Citrix Client</li> <li>VMware Client</li> <li>Internet Explorer 9</li> <li>Java</li> <li>Flash</li> <li>.Net Framework</li> <li>Microsoft® Silverlight</li> <li>Echo Agent</li> <li>Lenovo Thin Client Manager (LTM)</li> <li>Adobe Reader</li> <li>Intel Manageability Engine Firmware Recovery Agent</li> </ul> </li> <li>- LeTOS only:                             <ul style="list-style-type: none"> <li>xFreeRDP</li> <li>Citrix ICA Client</li> <li>VMware View Client</li> <li>Java</li> <li>Mozilla Firefox</li> <li>NX NoMachine Client</li> <li>X11 Client</li> <li>AnyConnect VPN Client</li> </ul> </li> </ul>																		
Storage	<i>Some:</i> 8GB or 16GB / DOM (Disk On Module) Card <i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide																				
Optical	<i>Some:</i> Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide <i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB																				
Onboard SATA Media reader	SATA 3.0Gb/s controller, one connectors on planar None																				
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)																				
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)																				
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port																				
Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																				
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2																				
Bluetooth™ Ethernet Modem	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN® None																				
Manageability Security chip	None																				
Security features	<ul style="list-style-type: none"> <li>Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>Smart USB protection, allows keyboard/mouse only, blocks all storage devices</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Optional Chassis intrusion switch</li> </ul>																				
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo logo <i>Some:</i> Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo <i>Some:</i> Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black <i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black																				
Mouse																					
Environment			ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																		
Accessories			For compatible accessories, please go to TC-AQP sheet																		

See footnotes for more detailed information

# ThinkCentre M53 Tiny (10DC) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DC0011US	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DC0012US	Pentium J2900	8GBx1	Intel HD	256GB SSD OPAL	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DC001GUS	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	12/14
10DC001JUS	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15
10DC001HUS	Pentium J2900	4GBx1	Intel HD	180GB SSD OPAL	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15

• For detailed platform specifications, please see [ThinkCentre M53 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop	Manageability Security chip	None None																		
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Max/Base)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron J1800</td> <td>2 / 2</td> <td>2.58 / 2.41 GHz</td> <td>1MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.58 / 2.41 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD	Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD	Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</li> <li>• Power-on password</li> <li>• Administrator password</li> </ul> <ul style="list-style-type: none"> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional Chassis intrusion switch</li> </ul>
Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics																
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD																
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD																
Chipset	Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip	Keyboard	<b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo <b>USB(Slim):</b> Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black																		
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz	Mouse	<b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black																		
Monitor cable	Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable	Mechanical	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> </ul> <b>M53 Tiny only:</b> 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration With VESA mount & optical box: 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 4.6 lb (2.1 kg), weight may vary by configuration																		
Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller	VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm																		
Storage	<i>Some:</i> 8GB or 16GB / DOM (Disk On Module) Card <i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide	Floor Stand	Optional system floor stand for vertical orientation																		
Optical	<i>Some:</i> Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide <i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																		
Onboard SATA Media reader	SATA 3.0Gb/s controller, one connectors on planar None	Limited warranty <sup>3</sup>	<i>Some:</i> 1-year, depot service / service upgrades available <i>Some:</i> 1-year or 3-year, limited onsite service / service upgrades available <i>Some:</i> 3-year, limited onsite service, IWS (International Warranty Service®) / service upgrades available <b>For Lenovo service upgrade options, please go to S-TC sheet</b>																		
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 8.1 with Bing 64-bit <i>Some:</i> Genuine Windows® Embedded Standard 7 (WES 7) <i>Some:</i> LeTOS (Lenovo Terminal Operating System, Linux-based)																		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)	Environment	ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																		
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	Accessories	For compatible accessories, please go to TC-AQP sheet																		
Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																				
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo																				
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																				
Ethernet	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®																				
Modem	None																				

See footnotes for more detailed information

# ThinkCentre M53 Tiny (10DE) - TopSeller

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DE0004US	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DE0005US	Celeron J1800	8GBx1	Intel HD	256GB SSD OPAL	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DE001HUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	12/14
10DE001LUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	DP to DVI	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15
10DE001KUS	Celeron J1800	4GBx1	Intel HD	128GB SSD	None	7260 b/g/n	None	DP to DVI	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	1-onsite	No	02/15

• For detailed platform specifications, please see [ThinkCentre M53 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop	Manageability Security chip	None None																		
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Max/Base)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron J1800</td> <td>2 / 2</td> <td>2.58 / 2.41 GHz</td> <td>1MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.58 / 2.41 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD	Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD	Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</li> <li>• Power-on password</li> <li>• Administrator password</li> </ul> <ul style="list-style-type: none"> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional Chassis intrusion switch</li> </ul>
Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics																
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Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD																
Chipset	Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip	Keyboard	<b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo <b>USB(Slim):</b> Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black																		
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz	Mouse	<b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black																		
Monitor cable	Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable	Mechanical	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> </ul> M53 Tiny only: 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration With VESA mount & optical box: 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 4.6 lb (2.1 kg), weight may vary by configuration																		
Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller	VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm																		
Storage	Some: 8GB or 16GB / DOM (Disk On Module) Card Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide	Floor Stand	Optional system floor stand for vertical orientation																		
Optical	Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																		
Onboard SATA Media reader	SATA 3.0Gb/s controller, one connectors on planar None	Limited warranty <sup>3</sup>	Some: 1-year, depot service / service upgrades available Some: 1-year or 3-year, limited onsite service / service upgrades available Some: 3-year, limited onsite service, IWS (International Warranty Service®) / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																		
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	Preload	Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 7 Professional 64 Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 8.1 with Bing 64-bit Some: Genuine Windows® Embedded Standard 7 (WES 7) Some: LeTOS (Lenovo Terminal Operating System, Linux-based)																		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)	Environment	ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																		
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	Accessories	For compatible accessories, please go to TC-AQP sheet																		
Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																				
WLAN <sup>13</sup>	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo																				
Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																				
Ethernet	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®																				
Modem	None																				

See footnotes for more detailed information

# ThinkCentre M53 Tiny (10ED) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Keyboard/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10ED0000US	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	DP to DVI	None	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10ED0001US	Celeron J1800	4GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	DP to DVI	None	Stand	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10ED0002US	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	Stand	None	USB	Speaker	65W	None	LeTOS	1-Depot	No	12/14
10ED0003US	Celeron J1800	4GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	Stand	None	USB	Speaker	65W	None	LeTOS	1-Depot	No	12/14
10ED0007US	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/15
10ED0008US	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/15
10ED0009US	Celeron J1800	4GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/15

• For detailed platform specifications, please see [ThinkCentre M53 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop	Manageability Security chip	None None																		
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Max/Base)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron J1800</td> <td>2 / 2</td> <td>2.58 / 2.41 GHz</td> <td>1MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.58 / 2.41 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD	Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD	Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</li> <li>• Power-on password</li> <li>• Administrator password</li> </ul> <ul style="list-style-type: none"> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional Chassis intrusion switch</li> </ul>
Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics																
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Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD																
Chipset	Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip	Keyboard	<b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo <b>USB(Slim):</b> Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black																		
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz	Mouse	<b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black																		
Monitor cable	Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable	Mechanical	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> </ul> M53 Tiny only: 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration With VESA mount & optical box: 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 4.6 lb (2.1 kg), weight may vary by configuration																		
Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller	VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm																		
Storage	<i>Some:</i> 8GB or 16GB / DOM (Disk On Module) Card <i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide	Floor Stand	Optional system floor stand for vertical orientation																		
Optical	<i>Some:</i> Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide <i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																		
Onboard SATA Media reader	SATA 3.0Gb/s controller, one connectors on planar None	Limited warranty <sup>3</sup>	<i>Some:</i> 1-year, depot service / service upgrades available <i>Some:</i> 1-year or 3-year, limited onsite service / service upgrades available <i>Some:</i> 3-year, limited onsite service, IWS (International Warranty Service®) / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																		
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 8.1 with Bing 64-bit <i>Some:</i> Genuine Windows® Embedded Standard 7 (WES 7) <i>Some:</i> LeTOS (Lenovo Terminal Operating System, Linux-based)																		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)	Environment	ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																		
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Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																				
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Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																				
Ethernet	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®																				
Modem	None																				

See footnotes for more detailed information

# ThinkCentre M53 Tiny (10DB)

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DB000WUS	Pentium J2900	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DB000XUS	Pentium J2900	8GBx1	Intel HD	256GB SSD	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14

• For detailed platform specifications, please see [ThinkCentre M53 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop	Manageability Security chip	None None																		
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Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller	VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm																		
Storage	<i>Some:</i> 8GB or 16GB / DOM (Disk On Module) Card <i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide	Floor Stand	Optional system floor stand for vertical orientation																		
Optical	<i>Some:</i> Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide <i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																		
Onboard SATA Media reader	SATA 3.0Gb/s controller, one connectors on planar None	Limited warranty <sup>3</sup>	<i>Some:</i> 1-year, depot service / service upgrades available <i>Some:</i> 1-year or 3-year, limited onsite service / service upgrades available <i>Some:</i> 3-year, limited onsite service, IWS (International Warranty Service®) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>																		
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 8.1 with Bing 64-bit <i>Some:</i> Genuine Windows® Embedded Standard 7 (WES 7) <i>Some:</i> LeTOS (Lenovo Terminal Operating System, Linux-based)																		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)	Environment	ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																		
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	Accessories	For compatible accessories, please go to TC-AQP sheet																		
Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																				
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo																				
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																				
Ethernet	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®																				
Modem	None																				

See footnotes for more detailed information

# ThinkCentre M53 Tiny (10DD)

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DD000QUS	Celeron J1800	8GBx1	Intel HD	256GB SSD	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14
10DD000PUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	65W	None	Win7 P64 DG Win8.1	3-onsite	No	08/14

• For detailed platform specifications, please see [ThinkCentre M53 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop	Manageability Security chip	None None																		
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Max/Base)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron J1800</td> <td>2 / 2</td> <td>2.58 / 2.41 GHz</td> <td>1MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.58 / 2.41 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD	Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD	Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</li> <li>• Power-on password</li> <li>• Administrator password</li> </ul> <ul style="list-style-type: none"> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional Chassis intrusion switch</li> </ul>
Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics																
Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD																
Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD																
Chipset	Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip	Keyboard	<b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo <b>USB(Slim):</b> Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo <b>2.4G:</b> Lenovo Slim Wireless Keyboard (2.4GHz via USB receiver), black																		
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz	Mouse	<b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black																		
Monitor cable	Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable	Mechanical	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> </ul> <b>M53 Tiny only:</b> 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration With VESA mount & optical box: 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 4.6 lb (2.1 kg), weight may vary by configuration																		
Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller	VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm																		
Storage	<i>Some:</i> 8GB or 16GB / DOM (Disk On Module) Card <i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide	Floor Stand	Optional system floor stand for vertical orientation																		
Optical	<i>Some:</i> Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide <i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																		
Onboard SATA Media reader	SATA 3.0Gb/s controller, one connectors on planar None	Limited warranty <sup>3</sup>	<i>Some:</i> 1-year, depot service / service upgrades available <i>Some:</i> 1-year or 3-year, limited onsite service / service upgrades available <i>Some:</i> 3-year, limited onsite service, IWS (International Warranty Service®) / service upgrades available <b>For Lenovo service upgrade options, please go to S-TC sheet</b>																		
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 8.1 with Bing 64-bit <i>Some:</i> Genuine Windows® Embedded Standard 7 (WES 7) <i>Some:</i> LeTOS (Lenovo Terminal Operating System, Linux-based)																		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)	Environment	ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																		
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	Accessories	For compatible accessories, please go to TC-AQP sheet																		
Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																				
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo																				
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																				
Ethernet	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®																				
Modem	None																				

See footnotes for more detailed information

# ThinkCentre M53 Tiny (10DX) - TIO models

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Key-board/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10DX000JUS	Celeron J1800	4GBx1	Intel HD	500GB 5400	None	RTL8723BE	None	None	Switch	None	None	USB	Speaker	None	None	Win7 P64 DG Win8.1	3-onsite, IWS	Global	10/14
10DX000KUS	Celeron J1800	4GBx1	Intel HD	500GB 7200	None	RTL8723BE	None	None	Switch	None	None	USB	Speaker	None	None	Win7 P64 DG Win8.1	3-onsite, IWS	Global	10/14

• For detailed platform specifications, please see [ThinkCentre M53 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop	Manageability Security chip	None None																		
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Max/Base)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron J1800</td> <td>2 / 2</td> <td>2.58 / 2.41 GHz</td> <td>1MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.58 / 2.41 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Celeron J1800	2 / 2	2.58 / 2.41 GHz	1MB	DDR3L-1333	Intel HD	Pentium J2900	4 / 4	2.58 / 2.41 GHz	2MB	DDR3L-1333	Intel HD	Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</li> <li>• Power-on password</li> <li>• Administrator password</li> </ul> <ul style="list-style-type: none"> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional Chassis intrusion switch</li> </ul>
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Chipset	Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip	Keyboard	<b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo <b>USB(Slim):</b> Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black																		
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Monitor cable	Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable	Mechanical	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> </ul> M53 Tiny only: 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration With VESA mount & optical box: 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 4.6 lb (2.1 kg), weight may vary by configuration																		
Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller	VESA mount Floor Stand	Optional VESA mount bracket kit, supports VESA 75mm and 100mm Optional system floor stand for vertical orientation																		
Storage	<i>Some:</i> 8GB or 16GB / DOM (Disk On Module) Card <i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																		
Optical	<i>Some:</i> Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide <i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Limited warranty <sup>3</sup>	<i>Some:</i> 1-year, depot service / service upgrades available <i>Some:</i> 1-year or 3-year, limited onsite service / service upgrades available <i>Some:</i> 3-year, limited onsite service, IWS (International Warranty Service®) / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																		
Onboard SATA Media reader	SATA 3.0Gb/s controller, one connectors on planar None	Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 8.1 with Bing 64-bit <i>Some:</i> Genuine Windows® Embedded Standard 7 (WES 7) <i>Some:</i> LeTOS (Lenovo Terminal Operating System, Linux-based)																		
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	Environment	ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)	Accessories	For compatible accessories, please go to TC-AQP sheet																		
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port																				
Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																				
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo																				
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																				
Ethernet	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®																				
Modem	None																				

See footnotes for more detailed information

# ThinkCentre M53 Tiny (10EC) - Thin Client

Product Specifications Reference (PSREF)

Model	Processor	Memory	Graphics	Storage	External Optical / I/O box	WLAN	Optional Port	Monitor Cable	Chassis Intrusion Switch	Floor Stand	VESA Mount	Keyboard/ Mouse	Internal Speaker	Power Supply	Kensington Cable Lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10EC000HUS	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	None	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10EC000JUS	Celeron J1800	4GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	12/14
10EC000KUS	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	None	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	12/14
10EC000LUS	Celeron J1800	4GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	12/14
10EC000NUS	Celeron J1800	2GBx1	Intel HD	16GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	WES7	1-onsite	No	01/15
10EC000MUS	Celeron J1800	2GBx1	Intel HD	8GB DOM Card	None	RTL8723BE	None	None	None	None	None	USB	Speaker	65W	None	LeTOS	1-onsite	No	01/15

• For detailed platform specifications, please see [ThinkCentre M53 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop	Manageability Security chip	None None																		
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Chipset	Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip	Keyboard	<p><b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo</p> <p><b>USB(Slim):</b> Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo</p> <p><b>2.4G:</b> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p>																		
Graphics	Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz	Mouse	<p><b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo</p> <p><b>2.4G:</b> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>																		
Monitor cable	Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable	Mechanical	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> </ul> <p>M53 Tiny only: 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration</p> <p>With VESA mount &amp; optical box: 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 4.6 lb (2.1 kg), weight may vary by configuration</p>																		
Memory	8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket * System automatically clocks down for processors with 1333MHz DDR3 memory controller	VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm																		
Storage	Some: 8GB or 16GB / DOM (Disk On Module) Card Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide	Floor Stand	Optional system floor stand for vertical orientation																		
Optical	Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																		
Onboard SATA Media reader	SATA 3.0Gb/s controller, one connectors on planar None	Limited warranty <sup>3</sup>	<p>Some: 1-year, depot service / service upgrades available</p> <p>Some: 1-year or 3-year, limited onsite service / service upgrades available</p> <p>Some: 3-year, limited onsite service, IWS (International Warranty Service®) / service upgrades available</p> <p><i>For Lenovo service upgrade options, please go to S-TC sheet</i></p>																		
Front ports	One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	Preload	<p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</p> <p>Some: Windows 7 Professional 64</p> <p>Some: Windows 8.1 64-bit</p> <p>Some: Windows 8.1 Pro 64-bit</p> <p>Some: Windows 8.1 with Bing 64-bit</p> <p>Some: Genuine Windows® Embedded Standard 7 (WES 7)</p> <p>Some: LeTOS (Lenovo Terminal Operating System, Linux-based)</p>																		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)	Environment	ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																		
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	Accessories	For compatible accessories, please go to TC-AQP sheet																		
Audio support	High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)																				
WLAN <sup>13</sup>	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo																				
Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																				
Ethernet	One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®																				
Modem	None																				

See footnotes for more detailed information



ThinkCentre M73 Tiny with Optional WLAN



ThinkCentre M73 Tiny with ThinkVision Monitor



ThinkCentre M73 Tiny with optional I/O Box



ThinkCentre M73 Tiny with ThinkVision Monitor



ThinkCentre M73 Tiny with optional External Optical Box



ThinkCentre M73 Tiny



ThinkCentre M73 Small and Mini Tower



ThinkCentre M73 Small with ThinkVision Monitor



ThinkCentre M73 Small



ThinkCentre M73 Mini Tower with ThinkVision Monitor



ThinkCentre M73 Mini Tower



ThinkCentre M73 Mini Tower

# ThinkCentre M73 Tiny (10AY) - Thin Client (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date (mm/dd/yy)
10AY0037US	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14
10AY0038US	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	LeTOS	02/25/14
10AY0039US	G1820T	4GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14

- 1-year depot warranty

Positioning	<i>Essential business features, exceptional value</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b>										Some: Genuine Windows® Embedded Standard 7 (WES 7)		
Implementation	Processor in LGA1150 socket										Some: LeTOS (Lenovo Terminal Operating System, Linux-based)		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>										<b>Preloaded applications</b> (only some listed)		
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										<b>- WES 7 only:</b>		
DP dongle	None										<ul style="list-style-type: none"> <li>• Intel Management Engine Components</li> <li>• RDP Client</li> <li>• Citrix Client</li> <li>• VMware Client</li> <li>• Internet Explorer 9</li> <li>• Java</li> <li>• Flash</li> <li>• .Net Framework</li> <li>• Microsoft® Silverlight</li> <li>• Echo Agent</li> <li>• Ultra VNC</li> <li>• Adobe Reader</li> <li>• Intel Manageability Engine Firmware Recovery Agent</li> </ul>		
Flash Memory	8GB / DOM (Disk On Module) Card										<b>- LeTOS only:</b>		
External optical	Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0										<ul style="list-style-type: none"> <li>• xFreeRDP</li> <li>• Citrix ICA Client</li> <li>• VMware View Client</li> <li>• Java</li> <li>• Mozilla Firefox</li> <li>• NX NoMachine Client</li> <li>• X11 Client</li> <li>• VDI-In-A-Box Java Client</li> <li>• AnyConnect VPN Client</li> </ul>		
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										<b>Security</b>		
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
eSATA port	None										EPEAT™ Gold rating (WES models)		
Chipset	<b>Intel H81 Express Chipset</b>										ENERGY STAR® 6.0 (WES models) \		
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										Cisco EnergyWise compatible		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										GREENGUARD® certified		
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port										RoHS-compliant		
PCIe Mini Card	One PCI Express® Mini Card slot										Supports ThinkVantage Technologies		
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										For compatible accessories, please go to TC-AQP sheet;		
Bluetooth	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1										For Lenovo service upgrade options, please go to S-TC sheet		
Audio	High Definition (HD) Audio, Realtek® ALC283 codec												
Speaker	Internal speaker for business audio (1.5 watt)												
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®												
Intel AMT	None												
Modem	None												
Security chip	None												
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	Optional System floor stand for vertical orientation												
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard												
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU												
Mechanical	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> <li>• <i>M73 Tiny only:</i> <ul style="list-style-type: none"> <li>7.0" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>2.9 lb (1.3 kg), weight may vary by configuration</li> </ul> </li> <li>• <i>With VESA mount &amp; optical box:</i> <ul style="list-style-type: none"> <li>7.2" W X 7.2" D X 2.55" H</li> <li>184mm W X 182mm D X 65mm H</li> <li>5.1lb (2.3 kg), weight may vary by configuration</li> </ul> </li> </ul>												
Limited Warranty	1-years - depot repair service / service upgrades available												

See footnotes for important warranty information  
US model(s) announced February 25, 2013

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(MLM1N-6) February 2014

# ThinkCentre M73 Tiny (10AY) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date (mm/dd/yy)
10AY0005US	i5-4570T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY0006US	i7-4765T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001RUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001SUS	i3-4130T	4GBx1	500G Hybrid	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001TUS	G3220T	4GBx1	500G 7200	None	Intel HD	Intel 105	None	None	Stand	None	USB	Win7 Pro64 (DG)	10/01/13
10AY001UUS	G3220T	4GBx1	500G Hybrid	None	Intel HD	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001VUS	i3-4130T	4GBx1	500G Hybrid	None	HD 4400	Intel 2230	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001WUS	i3-4130T	4GBx1	500G 7200	DVD±RW	HD 4400	Intel 105	None	None	None	Mount	USB	Win7 Pro64 (DG)	10/01/13
10AY001XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 105	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/22/13
10AY0004US	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	None	USB	None	None	Mount	USB	Win7 Pro64 (DG)	10/22/13
10AY0020US	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	11/12/13
10AY001YUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	None	None	Stand	None	USB	Win7 Pro64 (DG)	11/12/13
10AY002SUS	G1820T	4GBx1	500G 7200	None	Intel HD	7260 ac	None	None	Stand	None	USB	Win7 P64 DG Win8.1	01/14/14
10AY003AUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 6235	None	None	Stand	None	USB	Win7 Pro64 (DG)	02/11/14

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<p><b>Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache),</b>                      Intel HD Graphics, 1333MHz DDR3 memory controller  <b>Intel Pentium® G3220T Processor (2 cores / 2 threads, 2.6GHz, 3MB cache),</b>                      Intel HD Graphics, 1333MHz DDR3 memory controller  <b>Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b>                      Intel HD Graphics 4400, 1600MHz DDR3 memory controller  <b>Intel Core i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),</b>                      Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller  <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache),</b>                      Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</p>										
Implementation	Processor in LGA1150 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz memory controller</i>										
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										
DP dongle	None										
Disk	<p><i>Some:</i> SATA 6.0Gb/s, 2.5" Wide, 7200 rpm  <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide  <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>										
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0										
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel H81 Express Chipset</b>										
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN	<p><i>Some:</i> 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2  <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2  <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + BT combo adapter, 2x2  <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1  <i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</p>										
Bluetooth	High Definition (HD) Audio, Realtek® ALC283 codec										
Audio	Internal speaker for business audio (1.5 watt)										
Speaker	Gigabit ethernet port, Intel I217-V, Wake on LAN®										
Ethernet	None										
Intel AMT	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	Optional System floor stand for vertical orientation										
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard										
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU										
Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li>M73 Tiny only:                             <ul style="list-style-type: none"> <li>7.0" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>2.9 lb (1.3 kg), weight may vary by configuration</li> </ul> </li> <li>With VESA mount &amp; optical box:                             <ul style="list-style-type: none"> <li>7.2" W X 7.2" D X 2.55" H</li> <li>184mm W X 182mm D X 65mm H</li> <li>5.1lb (2.3 kg), weight may vary by configuration</li> </ul> </li> </ul>										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										

<b>Preloaded operating system</b>	<p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</p>
<b>Ready to install applications</b> (only some listed)	<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
<b>Preloaded applications</b> (only some listed)	<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
	<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 6.0-compliant</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to TC-AQP sheet;                      For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information

US model(s) announced Oct 1, Oct 22, or Nov 12, 2013 or Jan 14 or Feb 11, 2014

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(MLM1N-1) February 2014

# ThinkCentre M73 Tiny (10AY) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Key-board / mouse	Warranty (year)	Preload	Ann date (mm/dd/yy)
10AY003JUS	G3220T	4GBx1	500G 7200	None	Intel HD	BCM4352	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG	Win8.1 04/01/14
10AY003KUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	N7260	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG	Win8.1 04/01/14
10AY003HUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	N7260	Serial	None	Stand	None	USB	3-onsite	Win7 P64 DG	Win8.1 04/01/14
10AY008HUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	N105	None	None	None	None	USB	1-onsite	Win7 P64 DG	Win8 02/10/15
10AY008GUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	N105	None	None	None	None	USB	1-onsite	Win7 P64 DG	Win8 02/10/15

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<b>Intel® Pentium® G3220T Processor (2 cores / 2 threads, 2.6GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket										
Implementation											
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz memory controller</i>										
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										
DP dongle	None										
Disk	<i>Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm</i> <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</i>										
External optical	None										
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel H81 Express Chipset</b>										
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</i> <i>Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth combo adapter, 2x2</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i> <i>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</i>										
Bluetooth	High Definition (HD) Audio, Realtek® ALC283 codec										
Audio	Internal speaker for business audio (1.5 watt)										
Speaker	Gigabit ethernet port, Intel I217-V, Wake on LAN®										
Ethernet	None										
Intel AMT	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	Optional System floor stand for vertical orientation										
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard										
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU										
Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li>M73 Tiny only:                             <ul style="list-style-type: none"> <li>7.0" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>2.9 lb (1.3 kg), weight may vary by configuration</li> </ul> </li> <li>With VESA mount &amp; optical box:                             <ul style="list-style-type: none"> <li>7.2" W X 7.2" D X 2.55" H</li> <li>184mm W X 182mm D X 65mm H</li> <li>5.1lb (2.3 kg), weight may vary by configuration</li> </ul> </li> </ul>										
Limited Warranty	<b>1-year or 3-year, limited onsite service, 8 am-5 pm, Mon - Fri</b> coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies										
	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information

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# ThinkCentre M73 Tiny (10AY) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCle Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date (mm/dd/yy)
10AY0081US	G3240T	4GBx1	500G 5400	None	Intel HD	8723BE	None	None	Stand	None	USB(slim)	Win7 P64 DG	Win8.1 10/14/14
10AY0082US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY0083US	i3-4150T	4GBx1	180G SSD	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY0085US	i3-4150T	8GBx1	256G SSD	None	HD 4400	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY0086US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY0087US	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	Serial	None	None	Mount	USB	Win7 P64 DG	Win8.1 10/14/14
10AY0088US	i5-4590T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY0089US	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY008AUS	i5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY008BUS	i5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY008CUS	i5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY008DUS	i7-4785T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY008EUS	i7-4785T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14
10AY008FUS	i7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	Win7 P64 DG	Win8.1 10/14/14

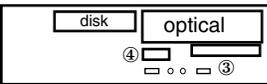
Positioning	<i>Essential business features, exceptional value</i>										
Processor	<b>Intel® Pentium® G3240T Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Core™ i3-4150T Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4785T Processor (4 cores / 8 threads, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket										
Implementation	Processor in LGA1150 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz memory controller</i>										
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										
DP dongle	None										
Disk	<i>Some: harddisk, 2.5" Wide, 5400 or 7200 rpm</i> <i>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</i> <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</i>										
External optical	<i>Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0</i>										
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel H81 Express Chipset</b>										
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port										
PCle Mini Card	One PCI Express® Mini Card slot										
PCle WLAN	<i>Some: 11ac/a/b/g/n wireless, PCle Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT 4.0 combo adapter, 2x2</i> <i>Some: 11b/g/n wireless, PCle Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2</i> <i>Some: 11b/g/n wireless, PCle Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1</i>										
Bluetooth	<i>Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</i>										
Audio	High Definition (HD) Audio, Realtek® ALC283 codec										
Speaker	Internal speaker for business audio (1.5 watt)										
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®										
Intel AMT	None										
Security chip	None										
Keyboard	<i>Some: Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo</i> <i>Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo</i>										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	Optional System floor stand for vertical orientation										
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard										
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU										
Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li><i>M73 Tiny only:</i> 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration</li> <li><i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration</li> </ul>										
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies										
	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet										

# ThinkCentre M73 Small (10B6) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10B60008US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG) 10/01/13
10B60009US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 Pro64 (DG) 10/01/13
10B6000AUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 Pro64 (DG) 10/01/13
10B6000BUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 Pro64 (DG) 10/01/13
10B6000FUS	3x4	i3-4130	8GBx1	1TB 7200	DVD±RW	N105	None	GT620	None	Serial	Stand	None	None	Win7 Pro64 (DG) 10/01/13
10B6000GUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	N105	None	Intel HD	None	Serial	Stand	None	None	Win7 Pro64 (DG) 10/01/13
10B6000PUS	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG) 11/12/13
10B6000QUS	3x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG) 11/12/13
10B6000RUS	3x4	i7-4770	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 Pro64 (DG) 11/12/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Implementation												<b>Preloaded applications</b> (only some listed)
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• PC Device Stage</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Evernote®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Nitro Pro</li> </ul>
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz											
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
Optical	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset											
SATA controller	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar											
Onboard SATA	None											
eSATA port	Optional 9-in-1 media reader, internal USB 2.0											
Media reader	None											
Chipset	<b>Intel H81 Express Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
PCIe WLAN <sup>4</sup>	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1											
Bluetooth	None											
Speaker	Internal speaker for business audio (1 watt) (*No internal speaker for 10B6000PUS)											
IEEE 1394	None											
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®											
Manageability	None											
Modem	None											
Security chip	None											
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	Optional system floor stand for vertical orientation											
Power supply	240 watts, autosensing, active PFC											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed											
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40W max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1											
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

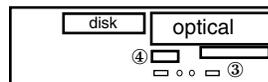
# ThinkCentre M73 Small (10B6) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCle WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10B6000XUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1 02/04/14
10B6000YUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1 02/04/14
10B60011US	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1 02/04/14
10B60013US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8.1 02/11/14
10B60012US	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Stand	None	None	Win7 P64 DG Win8.1 02/11/14
10B60014US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8.1 02/11/14
10B60015US	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8.1 03/25/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>		<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• PC Device Stage</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Evernote®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Nitro Pro</li> </ul>
Processor	Intel® Celeron® G1820 Processor (2 cores / 2 threads, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller Intel Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket		
Implementation	Processor in LGA1150 socket		
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller		
Graphics	Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz		
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
Optical	Some: Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
SATA controller	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar		
Onboard SATA	None		
eSATA port	Optional 9-in-1 media reader, internal USB 2.0		
Media reader	None		
Chipset	<b>Intel H81 Express Chipset</b>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
PCIe WLAN <sup>4</sup>	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1		
Bluetooth	None		
Speaker	Internal speaker for business audio (1 watt)		
IEEE 1394	None		
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®		
Manageability	None		
Modem	None		
Security chip	None		
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Floor Stand	Optional system floor stand for vertical orientation		
Power supply	240 watts, autosensing, active PFC		
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed		
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1		
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		
			<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
			Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
			Supports ThinkVantage Technologies
			For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet



# ThinkCentre M73 Small (10B6) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global	Preload	Ann date (mm/yy)
10B6001SUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001NUS	3x4	i3-4150	4GBx1	180G SSD	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001AUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001RUS	3x4	G3240	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001TUS	3x4	i5-4590	8GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001PUS	3x4	i3-4150	8GBx1	256G SSD	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001VUS	3x4	i5-4590	4GBx1	180G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001QUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001UUS	3x4	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001WUS	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001YUS	3x4	i3-4150	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4400	None	P	None	None	None	Win7 P64 DG	Win8.1 10/14
10B6001XUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	P	None	None	None	Win7 P64 DG	Win8.1 10/14

Positioning	<i>Essential business features, exceptional value</i>												<b>Preloaded operating system</b>		
Processor	<b>Intel® Pentium® G3240 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller												Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
Implementation	Processor in LGA1150 socket												<b>Ready to install applications</b> (only some listed)		
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller												<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed)		
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz;</i> 1920x1200 (VGA)@60Hz (Reduced Blanking) <i>Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;</i> <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>												<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• PC Device Stage</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Evernote®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Nitro Pro</li> </ul>		
Disk	<i>Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm</i> <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</i> <i>Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive</i>														
Optical	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset														
SATA controller	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar														
Onboard SATA	None														
eSATA port	Optional 9-in-1 media reader, internal USB 2.0														
Media reader	<b>Intel H81 Express Chipset</b>														
Chipset	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Front ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort														
Rear ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Rear audio ports	High Definition (HD) Audio, Realtek® ALC662 codec														
Audio	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2</i> <i>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</i>														
PCIe WLAN <sup>4</sup>	Internal speaker for business audio (1 watt)														
Bluetooth	None														
Speaker	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®														
IEEE 1394	None														
Ethernet	None														
Manageability	None														
Modem	None														
Security chip	None												<b>Security</b> <ul style="list-style-type: none"> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected mode(s)</li> </ul>		
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo												Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												Supports ThinkVantage Technologies		
Floor Stand	Optional system floor stand for vertical orientation												For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Power supply	240 watts, autosensing, active PFC														
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed														
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40W max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

# ThinkCentre M73 Small (10B5) - ES 6.0 (TopSeller)

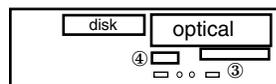
Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Internal Speaker	Preload	Ann date (mm/dd/yy)
10B50001US	3x4	i5-4570	4GBx2	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	None	ES6.0	Speaker	Win7 Pro64 (DG)	10/13
10B5000MUS	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG	Win8.1 01/14
10B5000TUS	3x4	G3240	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG	Win8.1 10/14
10B5000WUS	3x4	i3-4150	2GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4400	None	None	Floor	ES6.0	None	Win7 P64 DG	Win8.1 10/14
10B5000VUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Floor	ES6.0	None	Win7 P64 DG	Win8.1 10/14
10B5000UUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	Floor	ES6.0	Speaker	Win7 P64 DG	Win8.1 10/14

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Celeron® G1820 Processor (2 cores / 2 threads, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Pentium® G3240 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket
Implementation	
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) <i>Some:</i> <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Optical	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	<b>Intel H81 Express Chipset</b>
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCIe WLAN <sup>4</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
Speaker	Optional internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®
Manageability	None
Modem	None
Security chip	None

<b>Preloaded operating system</b>
<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
<i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
<b>Ready to install applications</b> (only some listed)
<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
<b>Preloaded applications</b> (only some listed)
<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>

Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	<i>Some:</i> 240 watts, autosensing, active PFC, 85% PSU
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>13.2" W X 15.0" D X 3.9" H</li> <li>335mm W X 382mm D X 101mm H</li> <li>14.6 lb (6.6 kg) in maximum configuration</li> <li>Highlighted optical drive button for easy access</li> </ul>
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



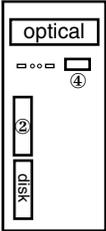
<b>Security</b>
<ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
Supports ThinkVantage Technologies
For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

# ThinkCentre M73 Mini Tower (10B0) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10B00005US	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8 10/01/13
10B00006US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8 10/01/13
10B00007US	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	S P	None	None	Win7 P64 DG Win8 10/01/13
10B00008US	3x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	S P	None	None	Win7 P64 DG Win8 10/01/13
10B0000GUS	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8 10/22/13
10B0000HUS	3x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8 11/12/13
10B0000JUS	3x4	i5-4570	4GBx1	1TB Hybrid	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8 11/12/13
10B0000KUS	3x4	i3-4130	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1 02/04/14
10B0000LUS	3x4	i5-4570	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1 02/04/14
10B0000NUS	3x4	G3220	4GBx1	2 x 500G 7200	DVD±RW	None	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1 02/04/14
10B0000QUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG Win8.1 02/11/14
10B0000RUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1 02/11/14

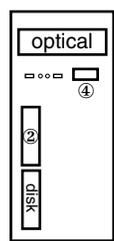
Positioning	<i>Essential business features, exceptional value</i>											<b>Preloaded operating system</b>	
Processor	<b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)	
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>	
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz;</i> 1920x1200 (VGA)@60Hz (Reduced Blanking) Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>	
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
Optical	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset												
SATA controller	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar												
Onboard SATA	None												
eSATA port	Optional 9-in-1 media reader, internal USB 2.0												
Media reader	<b>Intel H81 Express Chipset</b>												
Chipset	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Front ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort												
Rear ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
Rear audio ports	High Definition (HD) Audio, Realtek® ALC662 codec												
Audio	None												
PCIe WLAN <sup>4</sup>	None												
Bluetooth	None												
Speaker	Internal speaker for business audio (1.5 watt)												
IEEE 1394	None												
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®												
Manageability	None												
Modem	None												
Security chip	None											<b>Security</b> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											Cisco EnergyWise compatible	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											GREENGUARD® certified	
Power supply	280 watts, autosensing, active PFC											RoHS-compliant	
Mechanical	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>160mm W X 422mm D X 388mm H</li> <li>20.7 lb (9.4 kg) in maximum configuration</li> <li>Handle on top front</li> <li>Highlighted optical drive button for easy access</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed											Supports ThinkVantage Technologies	
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

# ThinkCentre M73 Mini Tower (10B0) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10B00017US	3x4	G3240	4GBx2	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1 10/28/14
10B00016US	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 7450	None	None	None	None	Win7 P64 DG Win8.1 10/28/14
10B00019US	3x4	i7-4790	8GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1 10/28/14
10B00011US	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1 10/28/14
10B00014US	3x4	i5-4590	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1 10/28/14
10B00013US	3x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1 10/28/14
10B00012US	3x4	G3240	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	Intel HD	None	None	None	None	Win7 P64 DG Win8.1 10/28/14
10B00018US	3x4	i7-4790	4GBx1	500G 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1 10/28/14
10B00015US	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	Win7 P64 DG Win8.1 10/28/14

Positioning	<i>Essential business features, exceptional value</i>	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Processor	<b>Intel® Pentium® G3240 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache),</b> Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket	
Implementation	Processor in LGA1150 socket	<b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller	
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) <i>Some:</i> <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz	
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide	
Optical	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset	
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar	
eSATA port	None	
Media reader	Optional 9-in-1 media reader, internal USB 2.0	
Chipset	<b>Intel H81 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
PCIe WLAN <sup>†</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Speaker	Internal speaker for business audio (1.5 watt)	
IEEE 1394	None	
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®	
Manageability	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts, autosensing, active PFC	
Mechanical	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>160mm W X 422mm D X 388mm H</li> <li>20.7 lb (9.4 kg) in maximum configuration</li> <li>Handle on top front</li> <li>Highlighted optical drive button for easy access</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed	
Slot	Slot 1: full-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	



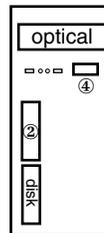
# ThinkCentre M73 Mini Tower (10B2) - ES 6.0 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)	
10B20002US	3x4	i5-4670	4GBx2	500G Hybrid	DVD±RW	N2230	None	GT 620	None	S P	ES6.0	None	Win7 Pro64 (DG)	10/01/13
10B2000QUS	3x4	G1820	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	ES6.0	None	Win7 P64 DG Win8.1	01/14/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<b>Intel® Celeron® G1820 Processor (2 cores / 2 threads, 2.7GHz, 2MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket										
Implementation											
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller										
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz										
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide										
Optical	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar										
eSATA port	None										
Media reader	Optional 9-in-1 media reader, internal USB 2.0										
Chipset	<b>Intel H81 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
PCIe WLAN <sup>4</sup>	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter										
Speaker	Internal speaker for business audio (1.5 watt)										
IEEE 1394	None										
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN <sup>®</sup>										
Manageability	None										
Modem	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	Some: 280 watts, autosensing, active PFC, 85% PSU										
Mechanical	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>• 160mm W X 422mm D X 388mm H</li> <li>• 20.7 lb (9.4 kg) in maximum configuration</li> <li>• Handle on top front</li> <li>• Highlighted optical drive button for easy access</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed										
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										



## Preloaded operating system

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  
 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

## Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

## Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

## Security

- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating  
 ENERGY STAR® 6.0-compliant  
 Cisco EnergyWise compatible  
 GREENGUARD® certified  
 RoHS-compliant

## Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;  
 For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced October 1, 2013 or January 14, 2014

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 (MLM1T-2) January 2014

# ThinkCentre M73 Tiny (10AX) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date (mm/dd/yy)
10AX005GUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	WES 7	02/25/14
10AX005HUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	Intel 105	None	None	Stand	None	USB	LeTOS	02/25/14

- 1-year depot warranty

Positioning	<i>Essential business features, exceptional value</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b>										Some: Genuine Windows® Embedded Standard 7 (WES 7)		
Implementation	Processor in LGA1150 socket										Some: LeTOS (Lenovo Terminal Operating System, Linux-based)		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>										<b>Preloaded applications</b> (only some listed)		
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										<b>- WES 7 only:</b>		
DP dongle	None										<ul style="list-style-type: none"> <li>• Intel Management Engine Components</li> <li>• RDP Client</li> <li>• Citrix Client</li> <li>• VMware Client</li> <li>• Internet Explorer 9</li> <li>• Java</li> <li>• Flash</li> <li>• .Net Framework</li> <li>• Microsoft® Silverlight</li> <li>• Echo Agent</li> <li>• Ultra VNC</li> <li>• Adobe Reader</li> <li>• Intel Manageability Engine Firmware Recovery Agent</li> </ul>		
Flash Memory	8GB / DOM (Disk On Module) Card										<b>- LeTOS only:</b>		
External optical	Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0										<ul style="list-style-type: none"> <li>• xFreeRDP</li> <li>• Citrix ICA Client</li> <li>• VMware View Client</li> <li>• Java</li> <li>• Mozilla Firefox</li> <li>• NX NoMachine Client</li> <li>• X11 Client</li> <li>• VDI-In-A-Box Java Client</li> <li>• AnyConnect VPN Client</li> </ul>		
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										<b>Security</b>		
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
eSATA port	None										EPEAT™ Gold rating (WES models)		
Chipset	<b>Intel H81 Express Chipset</b>										ENERGY STAR® 6.0 (WES models)		
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										Cisco EnergyWise compatible		
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										GREENGUARD® certified		
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port										RoHS-compliant		
PCIe Mini Card	One PCI Express® Mini Card slot										Supports ThinkVantage Technologies		
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										For compatible accessories, please go to TC-AQP sheet;		
Bluetooth	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1										For Lenovo service upgrade options, please go to S-TC sheet		
Audio	High Definition (HD) Audio, Realtek® ALC283 codec												
Speaker	Internal speaker for business audio (1.5 watt)												
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®												
Intel AMT	None												
Modem	None												
Security chip	None												
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	Optional System floor stand for vertical orientation												
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard												
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU												
Mechanical	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> <li>• <i>M73 Tiny only:</i> <ul style="list-style-type: none"> <li>7.0" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>2.9 lb (1.3 kg), weight may vary by configuration</li> </ul> </li> <li>• <i>With VESA mount &amp; optical box:</i> <ul style="list-style-type: none"> <li>7.2" W X 7.2" D X 2.55" H</li> <li>184mm W X 182mm D X 65mm H</li> <li>5.1lb (2.3 kg), weight may vary by configuration</li> </ul> </li> </ul>												
Limited Warranty	<b>1-years</b> - depot repair service / service upgrades available												

See footnotes for important warranty information  
US model(s) announced February 25, 2013

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# ThinkCentre M73 Tiny (10DK) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date (mm/dd/yy)
10DK0009US	G1820T	2GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	10/17/14
10DK000BUS	G1820T	4GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	10/17/14
10DK000DUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	10/17/14
10DK000EUS	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	10/17/14
10DK000FUS	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	10/17/14
10DK000GUS	i5-4460T	4GBx1	16G DOM Card	None	HD 4600	None	None	None	None	None	USB	WES 7	10/17/14
10DK000HUS	i3-4150T	4GBx1	16G DOM Card	None	HD 4400	None	None	None	None	None	USB	WES 7	10/17/14
10DK000JUS	i3-4150T	2GBx1	16G DOM Card	None	HD 4400	None	None	None	None	None	USB	WES 7	10/17/14
10DK000KUS	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	10/17/14

● 1-year onsite warranty

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Core™ i3-4150T Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4460T Processor (4 cores / 4 threads, 1.9GHz, 6MB cache), Turbo Boost 2.0 (2.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>	<b>Preloaded operating system</b> <i>Some:</i> Genuine Windows® Embedded Standard 7 (WES 7) <i>Some:</i> LeTOS (Lenovo Terminal Operating System, Linux-based)
Implementation	Processor in LGA1150 socket	<b>Preloaded applications (only some listed)</b>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>	<b>- WES 7 only:</b> ● Intel Management Engine Components ● RDP Client ● Citrix Client ● VMware Client ● Internet Explorer 9 ● Java ● Flash ● .Net Framework ● Microsoft® Silverlight ● Echo Agent ● Ultra VNC ● Adobe Reader ● Intel Manageability Engine Firmware Recovery Agent
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>	<b>- LeTOS only:</b> ● xFreeRDP ● Citrix ICA Client ● VMware View Client ● Java ● Mozilla Firefox ● NX NoMachine Client ● X11 Client ● VDI-In-A-Box Java Client ● AnyConnect VPN Client
DP dongle	None	
Flash Memory	8GB or 16GB / DOM (Disk On Module) Card	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0	
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel H81 Express Chipset</b>	
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)	
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter	
Bluetooth		
Audio	High Definition (HD) Audio, Realtek® ALC283 codec	
Speaker	Internal speaker for business audio (1.5 watt)	
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®	<b>Security</b> ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Individual USB port disablement ● <i>Chassis intrusion switch on selected model(s)</i>
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	Optional System floor stand for vertical orientation	
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU	
Mechanical	● Tiny (1L), business black color; metal case ● <i>M73 Tiny only:</i> 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration ● <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration	EPEAT™ Gold rating (WES models) ENERGY STAR® 6.0 (WES models) Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced February 25, 2013

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(MLM1N-11) October 2014

# ThinkCentre M73 Tiny (10DL) - Thin Client

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Flash Memory	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Warranty (year)	Ann date (mm/yy)
10DL0001US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	1-onsite	10/14
10DL0006US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0003US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	3-onsite	10/14
10DL0005US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL0004US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	3-onsite	10/14
10DL0007US	G1820T	2GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0002US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	LeTOS	1-onsite	10/14
10DL000BUS	G1820T	4GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14
10DL0008US	G1820T	4GBx1	8G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL000AUS	G1820T	4GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL0009US	G1820T	2GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	1-onsite	10/14
10DL000CUS	G1820T	2GBx1	16G DOM Card	None	Intel HD	None	None	None	None	None	USB	WES 7	3-onsite	10/14

Positioning	<i>Essential business features, exceptional value</i>											<b>Preloaded operating system</b>	
Processor	Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller											Some: Genuine Windows® Embedded Standard 7 (WES 7)	
Implementation	Processor in LGA1150 socket											Some: LeTOS (Lenovo Terminal Operating System, Linux-based)	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), System automatically clocks down for processors with 1333MHz DDR3 memory controller											<b>Preloaded applications</b> (only some listed)	
Graphics	Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)											<b>- WES 7 only:</b>	
DP dongle	None											<ul style="list-style-type: none"> <li>Intel Management Engine Components</li> <li>RDP Client</li> <li>Citrix Client</li> <li>VMware Client</li> <li>Internet Explorer 9</li> <li>Java</li> <li>Flash</li> <li>.Net Framework</li> <li>Microsoft® Silverlight</li> <li>Echo Agent</li> <li>Ultra VNC</li> <li>Adobe Reader</li> <li>Intel Manageability Engine Firmware Recovery Agent</li> </ul>	
Flash Memory	8GB or 16GB / DOM (Disk On Module) Card											<b>- LeTOS only:</b>	
External optical	Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0											<ul style="list-style-type: none"> <li>xFreeRDP</li> <li>Citrix ICA Client</li> <li>VMware View Client</li> <li>Java</li> <li>Mozilla Firefox</li> <li>NX NoMachine Client</li> <li>X11 Client</li> <li>VDI-In-A-Box Java Client</li> <li>AnyConnect VPN Client</li> </ul>	
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset											<b>Security</b>	
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar											<ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>	
eSATA port	None											EPEAT™ Gold rating (WES models)	
Chipset	<b>Intel H81 Express Chipset</b>											ENERGY STAR® 6.0 (WES models)	
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											Cisco EnergyWise compatible	
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)											GREENGUARD® certified	
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port											RoHS-compliant	
PCIe Mini Card	One PCI Express® Mini Card slot											Supports ThinkVantage Technologies	
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											For compatible accessories, please go to TC-AQP sheet;	
Bluetooth	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1											For Lenovo service upgrade options, please go to S-TC sheet	
Audio	Some: Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter												
Speaker	High Definition (HD) Audio, Realtek® ALC283 codec												
Ethernet	Internal speaker for business audio (1.5 watt)												
Intel AMT	Gigabit ethernet port, Intel I217-V, Wake on LAN®												
Modem	None												
Security chip	None												
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	Optional System floor stand for vertical orientation												
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard												
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU												
Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li>M73 Tiny only: 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>With VESA mount &amp; optical box: 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration</li> </ul>												
Limited Warranty	1-years or 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information  
US model(s) announced February 25, 2013

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(MLM1N-12) October 2014

# ThinkCentre M73 Tiny (10AX)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date (mm/dd/yy)
10AX001WUS	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 105	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX001XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX001YUS	i7-4765T	8GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 2230	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX003WUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB	Win7 P64 DG Win8	10/01/13
10AX003YUS	i3-4130T	4GBx1	500G 7200	DVD±RW	HD 4400	Intel 105	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX0040US	G3220T	4GBx1	500G 7200	DVD±RW	Intel HD	Intel 105	None	None	None	Mount	USB	Win7 P64 DG Win8	10/01/13
10AX0041US	G3220T	4GBx1	500G 7200	None	Intel HD	Intel 105	None	None	Stand	None	USB	Win7 P64 DG Win8	10/01/13
10AX0042US	i3-4130T	4GBx1	500G Hybrid	None	HD 4400	Intel 2230	None	None	Stand	None	USB	Win7 P64 DG Win8	10/01/13
10AX0067US	i5-4570T	4GBx1	500G 7200	None	HD 4600	N7260	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	04/01/14
10AX0065US	G1820T	4GBx1	500G 7200	None	Intel HD	BCM4352	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	04/01/14
10AX0066US	i3-4130T	4GBx1	500G 7200	None	HD 4400	N7260	Serial	None	Stand	None	USB	Win7 P64 DG Win8.1	04/01/14
Positioning	<i>Essential business features, exceptional value</i>												
Processor	<b>Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Pentium® G3220T Processor (2 cores / 2 threads, 2.6GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache),</b> Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket												
Implementation	Processor in LGA1150 socket												
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), System automatically clocks down for processors with 1333MHz DDR3 memory controller												
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)												
DP dongle	None												
Disk	<i>Some:</i> SATA 6.0Gb/s, 2.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide												
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0												
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset												
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar												
eSATA port	None												
Chipset	<b>Intel H81 Express Chipset</b>												
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)												
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)												
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port												
PCIe Mini Card	One PCI Express® Mini Card slot												
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
Bluetooth	High Definition (HD) Audio, Realtek® ALC283 codec												
Audio	Internal speaker for business audio (1.5 watt)												
Speaker	Gigabit ethernet port, Intel I217-V, Wake on LAN®												
Ethernet	None												
Intel AMT	None												
Modem	None												
Security chip	None												
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	Optional System floor stand for vertical orientation												
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard												
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU												
Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li>M73 Tiny only:                             <ul style="list-style-type: none"> <li>7.0" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>2.9 lb (1.3 kg), weight may vary by configuration</li> </ul> </li> <li>With VESA mount &amp; optical box:                             <ul style="list-style-type: none"> <li>7.2" W X 7.2" D X 2.55" H</li> <li>184mm W X 182mm D X 65mm H</li> <li>5.1lb (2.3 kg), weight may vary by configuration</li> </ul> </li> </ul>												
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												
								<b>Preloaded operating system</b>					
								<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit					
								<i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit					
								<b>Ready to install applications</b> (only some listed)					
								<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>					
								<b>Preloaded applications</b> (only some listed)					
								<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>					
								<b>Security</b>					
								<ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>					
								EPEAT™ Gold rating					
								ENERGY STAR® 6.0-compliant					
								Cisco EnergyWise compatible					
								GREENGUARD® certified					
								RoHS-compliant					
								Supports ThinkVantage Technologies					
								For compatible accessories, please go to TC-AQP sheet;					
								For Lenovo service upgrade options, please go to S-TC sheet					

See footnotes for important warranty information  
 US model(s) announced October 1, 2013 or April 1, 2014

# ThinkCentre M73 Tiny (10AX) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date (mm/dd/yy)
10AX008TUS	i5-4590T	8GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	None	Mount	USB	Win7 P64 DG Win8.1	10/28/14
10AX008KUS	i3-4150T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	None	None	USB	Win7 P64 DG Win8.1	10/28/14
10AX008QUS	i5-4590T	4GBx1	256G SSD	None	HD 4600	7260 b/g/n	USB	None	None	Mount	USB	Win7 P64 DG Win8.1	10/28/14
10AX008NUS	i3-4150T	8GBx1	256G SSD	None	HD 4400	7260 b/g/n	USB	None	None	None	USB	Win7 P64 DG Win8.1	10/28/14
10AX008LUS	i3-4150T	4GBx1	180G SSD	None	HD 4400	7260 b/g/n	Serial	None	None	None	USB	Win7 P64 DG Win8.1	10/28/14
10AX008PUS	i5-4590T	4GBx1	500G 7200	DVD±RW	HD 4600	7260 b/g/n	USB	None	None	Mount	USB	Win7 P64 DG Win8.1	10/28/14

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<b>Intel® Core™ i3-4150T Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket										
Implementation											
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>										
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										
DP dongle	None										
Disk	<i>Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm</i> <i>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</i> <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</i>										
External optical	<i>Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0</i>										
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel H81 Express Chipset</b>										
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)										
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</i> <i>Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i> <i>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</i>										
Bluetooth	High Definition (HD) Audio, Realtek® ALC283 codec										
Audio	Internal speaker for business audio (1.5 watt)										
Speaker	Gigabit ethernet port, Intel I217-V, Wake on LAN®										
Ethernet	None										
Intel AMT	None										
Modem	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	Optional System floor stand for vertical orientation										
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard										
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU										
Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li>M73 Tiny only:                             <ul style="list-style-type: none"> <li>7.0" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>2.9 lb (1.3 kg), weight may vary by configuration</li> </ul> </li> <li>With VESA mount &amp; optical box:                             <ul style="list-style-type: none"> <li>7.2" W X 7.2" D X 2.55" H</li> <li>184mm W X 182mm D X 65mm H</li> <li>5.1lb (2.3 kg), weight may vary by configuration</li> </ul> </li> </ul>										
Limited Warranty	<b>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</b>										
	<b>Preloaded operating system</b> <i>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</i>										
	<b>Ready to install applications</b> (only some listed)										
	<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>										
	<b>Preloaded applications</b> (only some listed)										
	<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet										

# ThinkCentre M73 Tiny (10AX) - 1-year depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Preload	Ann date (mm/dd/yy)
10AX003XUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	USB Win7 Pro64 (DG)		10/01/13
10AX0057US	G1820T	4GBx1	500G 7200	None	Intel HD	N7260	None	None	Stand	None	USB Win7 P64 DG Win8.1		01/14/14

●A depot repair service 1-year limited warranty

Positioning Processor	<i>Essential business features, exceptional value</i>											<b>Preloaded operating system</b>	
Implementation	<b>Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), System automatically clocks down for processors with 1333MHz DDR3 memory controller											<b>Ready to install applications</b> (only some listed)	
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed)	
DP dongle	None											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>	
Disk	Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm											<b>Security</b> <ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet	
External optical	None												
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset												
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar												
eSATA port	None												
Chipset	<b>Intel H81 Express Chipset</b>												
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)												
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)												
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port												
PCIe Mini Card	One PCI Express® Mini Card slot												
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
Bluetooth	High Definition (HD) Audio, Realtek® ALC283 codec												
Audio	Internal speaker for business audio (1.5 watt)												
Speaker	Gigabit ethernet port, Intel I217-V, Wake on LAN®												
Ethernet	None												
Intel AMT	None												
Modem	None												
Security chip	None												
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	Optional System floor stand for vertical orientation												
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard												
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU												
Mechanical	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li>M73 Tiny only:                             <ul style="list-style-type: none"> <li>7.0" W X 7.2" D X 1.4" H</li> <li>179mm W X 182mm D X 34.5mm H</li> <li>2.9 lb (1.3 kg), weight may vary by configuration</li> </ul> </li> <li>With VESA mount &amp; optical box:                             <ul style="list-style-type: none"> <li>7.2" W X 7.2" D X 2.55" H</li> <li>184mm W X 182mm D X 65mm H</li> <li>5.1lb (2.3 kg), weight may vary by configuration</li> </ul> </li> </ul>												
Limited Warranty	1-years - depot repair service / service upgrades available												

See footnotes for important warranty information  
 US model(s) announced October 1, 2013 or January 14, 2014

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# ThinkCentre M73 Tiny (10AX) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AX002UUS	G3420T	2GBx1	320G 5400	None	Intel HD	Intel 105	None	None	Stand	None	G P	Win7 Pro64	10/01/13
10AX002VUS	i3-4130T	4GBx1	500G 5400	None	HD 4400	Intel 2230	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10AX003DUS	i5-4570T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	USB	Switch	None	Mount	G P	Win7 Pro64 (DG)	10/01/13
10AX0044US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/22/13
10AX0045US	i3-4130T	4GBx1	500G 7200	None	HD 4400	Intel 105	None	None	Stand	None	G P	Win7 Pro64 (DG)	10/22/13
10AX007WUS	i5-4590T	4GBx1	128G SSD	DVD±RW	HD 4600	7260 b/g/n	USB	Switch	None	Mount	G P	Win7 P64 DG Win8.1	07/08/14
10AX007XUS	i3-4150T	4GBx1	500G 5400	None	HD 4400	7260 b/g/n	None	None	Stand	None	G P	Win7 P64 DG Win8.1	07/08/14

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G3420T Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller</b> <b>Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i3-4150T Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 4MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in LGA1150 socket	<b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>	<b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • PC Device Stage • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Evernote® • Microsoft® Office preloaded; purchase a product key to activate • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Nitro Pro
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>	
DP dongle	None	
Disk	<i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0	
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel H81 Express Chipset</b>	
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)	
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC283 codec	<b>Security</b> • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s)
Speaker	Internal speaker for business audio (1.5 watt)	
Ethernet	Gigabit ethernet port, Intel I217-V, Wake on LAN®	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	Optional System floor stand for vertical orientation	
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard	
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU	
Mechanical	• Tiny (1L), business black color; metal case • <i>M73 Tiny only:</i> 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration • <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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(MLM1N-4) July 2014

# ThinkCentre M73 Tiny (10DM) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10DM000MUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	7260 b/g/n	None	Switch	None	None	G P	Win7 P64 DG	Win8.1 10/17/14
10DM000NUS	G3420T	2GBx1	320G 5400	None	Intel HD	8723BE	None	None	None	None	G P	Win7 Pro64	10/17/14
10DM000PUS	i3-4130T	4GBx1	500G 5400	None	HD 4400	7260 b/g/n	None	None	None	None	G P	Win7 P64 DG	Win8.1 10/17/14
10DM000QUS	G3420T	2GBx1	320G 7200	None	Intel HD	8723BE	None	None	None	None	G P	Win7 Pro64	10/17/14
10DM000RUS	i3-4130T	4GBx1	500G 7200	None	HD 4400	7260 b/g/n	None	None	None	None	G P	Win7 P64 DG	Win8.1 10/17/14

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

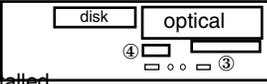
Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G3420T Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller</b> <b>Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i3-4150T Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 4MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation		<b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook), <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>	<b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • PC Device Stage • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Evernote® • Microsoft® Office preloaded; purchase a product key to activate • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Nitro Pro
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>	
DP dongle	None	
Disk	<i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide	
External optical	<i>Some:</i> Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0	
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset	
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar	
eSATA port	None	
Chipset	<b>Intel H81 Express Chipset</b>	
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	
Rear ports	Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)	
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT 4.0 combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1 <i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Bluetooth	High Definition (HD) Audio, Realtek® ALC283 codec	<b>Security</b> • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Chassis intrusion switch on selected model(s)
Audio	Internal speaker for business audio (1.5 watt)	
Speaker	Gigabit ethernet port, Intel I217-V, Wake on LAN®	
Ethernet	None	
Intel AMT	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	Optional System floor stand for vertical orientation	
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard	
Power supply	None	
Mechanical	• Tiny (1L), business black color; metal case • <i>M73 Tiny only:</i> 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration • <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	

See footnotes for important warranty information

# ThinkCentre M73 Small (10B7)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10B7000SUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Stand	None	None	Win7 P64 DG Win8 10/01/13
10B7000TUS	3x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	N2230	None	GT 620	None	None	Stand	None	None	Win7 P64 DG Win8 10/01/13
10B7001RUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8 10/01/13
10B7001TUS	3x4	i3-4130	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4400	None	None	Stand	None	None	Win7 P64 DG Win8 10/01/13
10B7001UUS	3x4	i3-4130	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	Serial	Stand	None	None	Win7 P64 DG Win8 10/01/13
10B7001VUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8 10/01/13
10B7001WUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8 10/01/13
10B7001XUS	3x4	G3220	4GBx1	1TB 7200	DVD±RW	None	None	Intel HD	None	Serial	Stand	None	None	Win7 P64 DG Win8 10/01/13
10B7004XUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	Stand	None	None	Win7 P64 DG Win8.1 02/04/14

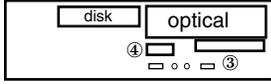
Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)		
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>		
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: NVIDIA® Geforce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>		
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide											<b>Security</b> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>		
Optical	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar													
eSATA port	None													
Media reader	Optional 9-in-1 media reader, internal USB 2.0											<b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Chipset	<b>Intel H81 Express Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
PCIe WLAN <sup>4</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter													
Speaker	Internal speaker for business audio (1 watt)													
IEEE 1394	None													
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®													
Manageability	None													
Modem	None													
Security chip	None													
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	Optional system floor stand for vertical orientation													
Power supply	<i>Some:</i> 240 watts, autosensing, active PFC													
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>13.2" W X 15.0" D X 3.9" H</li> <li>335mm W X 382mm D X 101mm H</li> <li>14.6 lb (6.6 kg) in maximum configuration</li> <li>Highlighted optical drive button for easy access</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed													
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1													
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

# ThinkCentre M73 Small (10B4) - ES 6.0

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe Media WLAN reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10B4000XUS	3x4	i7-4770	8GBx1	500G Hybrid DVD±RW	N2230	None	GT 620	None	S P	Stand	ES6.0	None	Win7 Pro64 (DG) 10/01/13

●3-year limited warranty

Positioning	<i>Essential business features, exceptional value</i>										
Processor	<b>Intel® Core™ i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>										
Implementation	Processor in LGA1150 socket										
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller										
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: NVIDIA® Geforce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>										
Disk	<i>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</i>										
Optical	<i>Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive</i>										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar										
eSATA port	None										
Media reader	Optional 9-in-1 media reader, internal USB 2.0										
Chipset	<b>Intel H81 Express Chipset</b>										
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
PCIe WLAN <sup>4</sup>	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</i>										
Bluetooth	<i>Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</i>										
Speaker	Internal speaker for business audio (1 watt)										
IEEE 1394	None										
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN <sup>5</sup>										
Manageability	None										
Modem	None										
Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	Optional system floor stand for vertical orientation										
Power supply	<i>Some: 240 watts, autosensing, active PFC, 85% PSU</i>										
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.2" W X 15.0" D X 3.9" H</li> <li>● 335mm W X 382mm D X 101mm H</li> <li>● 14.6 lb (6.6 kg) in maximum configuration</li> <li>● Highlighted optical drive button for easy access</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed										
Slot	Slot 1: Low Profile, PCIe 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1										
											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● PC Device Stage</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Evernote®</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Nitro Pro</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Serial port I/O control</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies										
	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information  
US model(s) announced October 1, 2013

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(MLM1S-4) October 2013

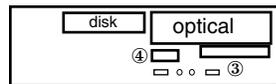
# ThinkCentre M73 Small (10B4) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory	SATA disk GB rpm	SATA optical	PCle WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	Floor stand	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10B4001FUS	3x4	G3420	2GBx1	500G 7200 DVD	None	None	None	Intel HD	None	None	None	ES6.0	G P	Win7 Pro64	10/01/13
10B4001GUS	3x4	i3-4130	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4400	None	None	Stand	ES6.0	G P	Win7 Pro64 (DG)	10/01/13
10B4001HUS	3x4	i5-4570	4GBx1	1TB 7200 DVD±RW	N105	Media	None	HD 8470	Switch	None	None	ES6.0	G P	Win7 Pro64 (DG)	10/01/13
10B4002OUS	3x4	i3-4130	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4400	None	None	Stand	ES6.0	G P	Win7 HP64	02/04/14
10B4002LUS	3x4	G3440	2GBx1	500G 7200 DVD	None	None	None	Intel HD	None	None	None	ES6.0	G P	Win7 Pro64	06/24/14
10B4002MUS	3x4	i3-4150	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4400	None	None	Stand	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14
10B4002NUS	3x4	i5-4590	4GBx1	1TB 7200 DVD±RW	8723BE	None	None	GT 620	Switch	None	None	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G3420 Processor (2 cores / 2 threads, 3.2GHz, 3MB cache),</b> Intel HD Graphics, 1600MHz DDR3 memory controller <b>Intel® Pentium G3440 Processor (2 cores / 2 threads, 3.3GHz, 3MB cache),</b> Intel HD Graphics, 1600MHz DDR3 memory controller <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket
Implementation	
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz;</i> 1920x1200 (VGA)@60Hz (Reduced Blanking) <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>
Disk Optical	<i>Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm</i> <i>Some: DVD-ROM DL SATA 1.5Gb/s Drive</i> <i>Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive</i>
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
eSATA port	None
Media reader	Optional 9-in-1 media reader, internal USB 2.0
Chipset	<b>Intel H81 Express Chipset</b>
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
PCle WLAN <sup>4</sup>	<i>Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i> <i>Some: 11b/g/n wireless, PCle Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1</i> <i>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</i>
Bluetooth	None
Speaker	Internal speaker for business audio (1 watt)
IEEE 1394	None
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN <sup>5</sup>
Manageability	None
Modem	None
Security chip	None

Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Floor Stand	Optional system floor stand for vertical orientation
Power supply	<i>Some: 240 watts, autosensing, active PFC, 85% PSU</i>
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>13.2" W X 15.0" D X 3.9" H</li> <li>335mm W X 382mm D X 101mm H</li> <li>14.6 lb (6.6 kg) in maximum configuration</li> <li>Highlighted optical drive button for easy access</li> </ul>
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed
Slot	Slot 1: Low Profile, PCle 2.0 x16 (40w max) Slot 2: Low Profile, PCle 2.0 x1 Slot 3: Low Profile, PCle 2.0 x1
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



<b>Preloaded operating system</b>	<i>Some: Windows® 7 Home Premium 64</i> <i>Some: Windows 7 Professional 64</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</i>
<b>Ready to install applications (only some listed)</b>	<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
<b>Preloaded applications (only some listed)</b>	<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
	Supports ThinkVantage Technologies
	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

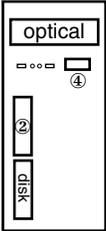
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(MLM1S-5) July 2014

# ThinkCentre M73 Mini Tower (10B3)

Product Specifications Reference (PSREF)

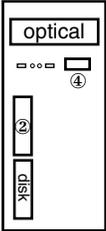
Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10B3000CUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000DUS	3x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	None	None	GT 620	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000RUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000SUS	3x4	i3-4130	4GBx1	500G Hybrid	DVD±RW	None	None	HD 4400	None	Serial	None	Win7 P64 DG Win8	10/01/13
10B3000TUS	3x4	i3-4130	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	Serial	None	Win7 P64 DG Win8	10/01/13
10B3000VUS	3x4	G3220	4GBx1	1TB 7200	DVD±RW	None	None	Intel HD	None	Serial	None	Win7 P64 DG Win8	10/01/13
10B3000WUS	3x4	G3220	4GBx1	500G Hybrid	DVD±RW	None	None	Intel HD	None	None	None	Win7 P64 DG Win8	10/01/13
10B3000XUS	3x4	G3220	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	Win7 P64 DG Win8	10/01/13
10B3002BUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	Win7 P64 DG Win8.1	02/04/14
10B3002CUS	3x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	Win7 P64 DG Win8.1	02/04/14

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in LGA1150 socket	<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller	<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) <i>Some:</i> <b>NVIDIA® Geforce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz <i>Some:</i> <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz	<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide	
Optical	<i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset	
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar	
eSATA port	None	
Media reader	Optional 9-in-1 media reader, internal USB 2.0	
Chipset	<b>Intel H81 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
PCIe WLAN <sup>4</sup>	None	
Bluetooth	None	
Speaker	Internal speaker for business audio (1.5 watt)	
IEEE 1394	None	
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®	
Manageability	None	
Modem	None	
Security chip	None	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	<i>Some:</i> 280 watts, autosensing, active PFC	
Mechanical	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>160mm W X 422mm D X 388mm H</li> <li>20.7 lb (9.4 kg) in maximum configuration</li> <li>Handle on top front</li> <li>Highlighted optical drive button for easy access</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed	
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Security</b> <ul style="list-style-type: none"> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul> Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

# ThinkCentre M73 Mini Tower (10B1) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	2nd Serial / Parallel	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10B10011US	3x4	G3420	2GBx1	500G 7200	DVD	None	None	Intel HD	None	None	ES6.0	G P	Win7 Pro64	10/01/13
10B10012US	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES6.0	G P	Win7 Pro64 (DG)	10/01/13
10B10017US	3x4	i5-4570	4GBx1	1TB 7200	DVD±RW	N105	Media	HD 8470	Switch	None	ES6.0	G P	Win7 Pro64 (DG)	10/01/13
10B1001KUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES6.0	G P	Win7 Pro64	02/04/14
10B10029US	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14
10B1002AUS	3x4	i5-4590	4GBx1	1TB 7200	DVD±RW	8723BE	None	GT 620	Switch	None	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14

Positioning Processor	<i>Essential business features, exceptional value</i> <b>Intel® Pentium® G3420 Processor (2 cores / 2 threads, 3.2GHz, 3MB cache),</b> Intel HD Graphics, 1600MHz DDR3 memory controller <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in LGA1150 socket	<b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller	<b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● PC Device Stage ● Lenovo Cloud Storage by SugarSync ● Lenovo Solution Center ● Lenovo Message Center Plus ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ ● Evernote® ● Microsoft® Office preloaded; purchase a product key to activate ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) ● Nitro Pro
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) <i>Some:</i> <b>AMD Radeon™ HD 8470</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, <i>Max resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz <i>Some:</i> <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz	
Disk Optical	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> DVD-ROM DL SATA 1.5Gb/s Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller Onboard SATA	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar	
eSATA port	None	
Media reader	Optional 9-in-1 media reader, internal USB 2.0	
Chipset	<b>Intel H81 Express Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
PCIe WLAN <sup>4</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Speaker	Internal speaker for business audio (1.5 watt)	
IEEE 1394	None	
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®	
Manageability	None	
Modem	None	
Security chip	None	<b>Security</b> ● One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Serial port I/O control ● Individual USB port disablement ● Chassis intrusion switch on selected model(s)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	<i>Some:</i> 280 watts, autosensing, active PFC, 85% PSU	
Mechanical	● Business black color; metal case ● 6.3" W X 16.6" D X 15.3" H (with handle) ● 160mm W X 422mm D X 388mm H ● 20.7 lb (9.4 kg) in maximum configuration ● Handle on top front ● Highlighted optical drive button for easy access	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, opt disk* Bay 3: 3.5", 1" high, no access, std disk Bay 4: 1.5", .35" high, access, opt reader* *bay only available on models with HDD/SSD/reader installed	
Slot	Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> Cisco EnergyWise compatible <b>GREENGUARD® certified</b> RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information



ThinkCentre M73z with Frame Stand and optional wireless keyboard and mouse



ThinkCentre M73z with Monitor Stand and optional wireless keyboard and mouse



ThinkCentre M73z with Frame Stand with optional PS/2 and Serial ports



ThinkCentre M73z with Monitor Stand with optional PS/2 and Serial ports



ThinkCentre M73z with Frame Stand with optional wireless keyboard and mouse



ThinkCentre M73z with Monitor Stand with optional wireless keyboard and mouse

# ThinkCentre M73z (10BC) - TopSeller (1-year Onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
10BC0005US	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC000HUS	G3220	2GBx1 1600MHz	720p	500G 7200	Intel HD	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b> <sup>20</sup> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Processor	<b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache),</b> Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											
Implementation	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution: 1600x900 (panel) @60Hz;</i> 1920x1200 (VGA) @60Hz (Reduced Blanking)											<b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller											
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution: 1600x900 (panel) @60Hz;</i> 1920x1200 (VGA) @60Hz (Reduced Blanking)											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Nitro Pro</li> </ul>
DP dongle	None											
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio											
Multi-touch	None											
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off											
Controls	Side buttons for brightness up, brightness down, and power on/off											
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high											
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0											
Chipset	<b>Intel H81 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)											
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1											
Bluetooth	None											
Ethernet	One gigabit ethernet port, Intel I217-V											
Audio	High Definition (HD) Audio, Realtek ALC269VC											
Speaker	Two internal stereo speakers (2watt x 2)											
Intel AMT	None											
Modem	None											
IEEE 1394	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, Lenovo logo											
Power supply	150 watts, autosensing, 85% PSU											
Mechanical	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Carry handle in rear</li> <li>• Support VESA mount (100mm)</li> </ul> With <i>Frame stand</i> : 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) With <i>Monitor stand</i> : 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;											
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced September 24, 2012

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 (MDST1-4) September 2013

# ThinkCentre M73z (10BC) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial PS/2 port	Stand type	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
10BC0001US	i7-4770S	8GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	S P	Monitor	2.4G	None	Win7 Pro64 DG	09/24/13
10BC0002US	i7-4770S	4GBx1 1600MHz	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0003US	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC0004US	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0006US	i5-4570S	4GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0007US	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC0008US	i5-4570S	4GBx1 1600MHz	720p	180G SSD	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC0009US	i5-4570S	4GBx1 1600MHz	720p	128G SSD	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>
Processor	<b>Intel® Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution:</i> 1600x900 (panel) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)											<b>Preloaded applications</b> (only some listed)
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Nitro Pro</li> </ul>
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio											
Multi-touch	None											
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off											
Controls	Side buttons for brightness up, brightness down, and power on/off											
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high											
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0											
Chipset	<b>Intel H81 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)											
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter											<b>Security</b>
Ethernet	One gigabit ethernet port, Intel I217-V											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Audio	High Definition (HD) Audio, Realtek ALC269VC											
Speaker	Two internal stereo speakers (2watt x 2)											
Intel AMT	None											
Modem	None											
IEEE 1394	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black											
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black											
Power supply	150 watts, autosensing, 85% PSU											
Mechanical	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Carry handle in rear</li> <li>• Support VESA mount (100mm)</li> </ul> <i>With Frame stand:</i> 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) <i>With Monitor stand:</i> 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified Supports ThinkVantage Technologies
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced September 24, 2012

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 (MDST1-1) September 2013

# ThinkCentre M73z (10BC) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media intrusion reader	Chassis intrusion switch	Serial PS/2 port	Stand type	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
10BC000BUS	i5-4670S	8GBx1	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000CUS	i7-4770S	8GBx1	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000DUS	i3-4130	4GBx1	720p	500G 7200	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000EUS	i3-4130	4GBx1	720p	500G 7200	HD 4400	N2230	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BC000FUS	i3-4130	4GBx1	720p	500G Hybrid	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000GUS	G3220	2GBx1	720p	500G 7200	Intel HD	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BC000QUS	i5-4570S	4GBx1	720p	500G 7200	HD 4600	N2230	Media	None	None	None	USB	None	Win7 Pro64 DG	11/12/13
10BC000YUS	G3220	2GBx1	720p	500G 7200	Intel HD	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0010US	i3-4130	4GBx1	720p	500G 7200	HD 4400	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0011US	i5-4570S	4GBx1	720p	500G 7200	HD 4400	N7260	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	01/21/14
10BC0014US	G1820	2GBx1	720p	500G 7200	Intel HD	N7260	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	03/04/14
Positioning Processor	<b>Mainstream All-In-One PC for the enterprise</b> <b>Intel® Celeron® G1820 Processor (2 cores / 2 threads, 2.7GHz, 2MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4670S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											<b>Preloaded operating system<sup>20</sup></b> <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Nitro Pro</li> </ul>		
Implementation	Processor in LGA1150 socket													
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller													
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution:</i> 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)													
DP dongle	None													
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio													
Multi-touch	None													
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off													
Controls	Side buttons for brightness up, brightness down, and power on/off													
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide													
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high													
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0													
Chipset	<b>Intel H81 Express Chipset</b>													
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)													
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter													
Ethernet	One gigabit ethernet port, Intel I217-V													
Audio	High Definition (HD) Audio, Realtek ALC269VC													
Speaker	Two internal stereo speakers (2watt x 2)													
Intel AMT	None													
Modem	None													
IEEE 1394	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, Lenovo logo													
Power supply	150 watts, autosensing, 85% PSU													
Mechanical	<ul style="list-style-type: none"> <li>Business black color</li> <li>Carry handle in rear</li> <li>Support VESA mount (100mm)</li> </ul> <i>With Frame stand:</i> 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) <i>With Monitor stand:</i> 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information  
 US model(s) announced September 24 or November 12, 2013 or January 21 or March 4, 2014

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
10BC001DUS	I3-4150	8GBx1	720p	256G SSD	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001WUS	I7-4790S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	Media	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001RUS	I5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 ac	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001EUS	I3-4150	4GBx1	720p	1TB 7200	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001GUS	I3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001NUS	I5-4590S	8GBx1	720p	256G SSD	HD 4600	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001SUS	I7-4790S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001JUS	I5-4590S	4GBx1	720p	500G 7200	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001VUS	I7-4790S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001UUS	I7-4790S	8GBx1	720p	256G SSD	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001HUS	I3-4150	4GBx1	720p	180G SSD	HD 4400	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001TUS	I7-4790S	8GBx1	720p	1TB 7200	HD 4600	7260 b/g/n	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001CUS	I3-4150	4GBx1	720p	180G SSD	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001MUS	I5-4590S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	None	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001LUS	I5-4590S	4GBx1	720p	180G SSD	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001FUS	I3-4150	4GBx1	720p	500G 7200	HD 4400	7260 ac	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001BUS	I3-4150	4GBx1	720p	500G 7200	HD 4400	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001KUS	I5-4590S	4GBx1	720p	1TB 7200	HD 4600	7260 b/g/n	None	None	None	Frame	USB	None	Win7 P64 DG Win8.1	10/28/14
10BC001YUS	I5-4590S	4GBx1	None	500G 7200	HD 4600	None	Media	None	None	Monitor	USB	None	Win7 P64 DG Win8.1	02/03/15

Positioning Processor	<i>Mainstream All-In-One PC for the enterprise</i> <b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790S Processor (4 cores / 8 threads, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>	<b>Preloaded operating system<sup>20</sup></b> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit <b>Ready to install applications (only some listed)</b> ● Rescue and Recovery™ ● Password Manager
Implementation	Processor in LGA1150 socket	<b>Preloaded applications (only some listed)</b> ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Device Experience ● ThinkVantage AutoLock ● Desktop Power Manager ● View Management Utility ● Lenovo Cloud Storage by SugarSync ● Lenovo Solution Center ● Lenovo Message Center Plus ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ ● Microsoft Office preloaded; purchase a product key to activate ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) ● Evernote ● Nitro Pro
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Max resolution: 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blank-ing)</i>	<b>Security</b> ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● USB port disablement ● <i>Chassis intrusion switch on selected model(s)</i>
DP dongle	None	
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio	
Multi-touch	None	
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off	
Controls	Side buttons for brightness up, brightness down, and power on/off	
Disk	<i>Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm</i> <i>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</i>	
Optical Media reader	DVD burner, SATA 1.5Gb/s, 12.7mm high Optional 7-in-1 Single Slot media reader, via internal USB 2.0	
Chipset	<b>Intel H81 Express Chipset</b>	
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)	
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</i>	
Bluetooth	<i>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</i>	
Ethernet	One gigabit ethernet port, Intel I217-V	
Audio	High Definition (HD) Audio, Realtek ALC269VC	
Speaker	Two internal stereo speakers (2watt x 2)	
Intel AMT	None	
Modem	None	
IEEE 1394	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Mechanical	● Business black color ● Carry handle in rear ● Support VESA mount (100mm) <i>With Frame stand: (WxDxH)19.9" X 3.56" X 15.9"; 506mm X 90.5mm X 404.75mm</i> 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) <i>With Monitor stand: (WxDxH)19.9" X 9.83" X 16.7"; 506mm X 249.8mm X 423.9mm</i> 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified Supports ThinkVantage Technologies
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

# ThinkCentre M73z (10BC) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/Mouse Global	Preload	Ann date (mm/dd/yy)
10BC000AUS	i5-4570S	4GBx1 1600MHz	720p	500GB 7200	HD 4600	N2230	Media	None	None	Frame	USB	None	Win8 Pro64 09/24/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>										<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>										Windows® 8 Pro 64-bit
Implementation	Processor in LGA1150 socket										<b>Web install applications</b> (only some listed)
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> <li>• Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution: 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										<b>Preloaded applications</b> (only some listed)
DP dongle	None										<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote®</li> <li>• Intel AppUp</li> <li>• Nitro Pro</li> <li>• AccuWeather</li> <li>• Norton™ Studio</li> </ul>
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio										
Multi-touch	None										
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off										
Controls	Side buttons for brightness up, brightness down, and power on/off										
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high										
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0										
Chipset	<b>Intel H81 Express Chipset</b>										
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)										
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										
Ethernet	One gigabit ethernet port, Intel I217-V										
Audio	High Definition (HD) Audio, Realtek ALC269VC										
Speaker	Two internal stereo speakers (2watt x 2)										
Intel AMT	None										
Modem	None										
IEEE 1394	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										<b>Security</b>
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• <i>Chassis intrusion switch on selected model(s)</i></li> </ul>
Mouse	Enhanced Optical USB Mouse, Lenovo logo										
Power supply	150 watts, autosensing, 85% PSU										
Mechanical	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Carry handle in rear</li> <li>• Support VESA mount (100mm)</li> </ul> <p><i>With Frame stand:</i> 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°)</p> <p><i>With Monitor stand:</i> 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;</p>										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										Supports ThinkVantage Technologies
											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced September 24, 2012

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(MDST1-3) September 2013

# ThinkCentre M73z (10BB)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
10BB0000US	i7-4770S	8GBx1 1600MHz	720p	1TB Hybrid	HD 4600	N2230	Media	None	S P	Monitor	USB	None	Win7 Pro64	09/24/13
10BB000FUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB000GUS	i7-4770S	8GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB000HUS	i5-4430S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BB000JUS	i5-4570S	4GBx1 1600MHz	720p	500G Hybrid	HD 4600	N2230	Media	None	S P	Monitor	2.4G	None	Win7 Pro64 DG	09/24/13
10BB001EUS	i7-4770S	8GBx1 1600MHz	720p	1TB 7200	HD 4600	N2230	Media	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB001FUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N105	None	None	None	Frame	USB	None	Win7 Pro64 DG	09/24/13
10BB0021US	i3-4130	4GBx1 1600MHz	720p	500G 7200	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB0022US	G3220	2GBx1 1600MHz	720p	500G 7200	Intel HD	N105	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
10BB0023US	i3-4130	4GBx1 1600MHz	720p	500G Hybrid	HD 4400	N2230	None	None	None	Monitor	USB	None	Win7 Pro64 DG	09/24/13
Positioning Processor	<b>Mainstream All-In-One PC for the enterprise</b> <b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b> <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<b>Preloaded operating system<sup>20</sup></b> <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Nitro Pro</li> </ul>		
Implementation	Processor in LGA1150 socket													
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller													
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution:</i> 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)													
DP dongle	None													
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio													
Multi-touch	None													
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off													
Controls	Side buttons for brightness up, brightness down, and power on/off													
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide													
Optical Media reader	DVD burner, SATA 1.5Gb/s, 12.7mm high Optional 7-in-1 Single Slot media reader, via internal USB 2.0													
Chipset	<b>Intel H81 Express Chipset</b>													
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)													
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter													
Ethernet	One gigabit ethernet port, Intel I217-V													
Audio	High Definition (HD) Audio, Realtek ALC269VC													
Speaker	Two internal stereo speakers (2watt x 2)													
Intel AMT	None													
Modem	None													
IEEE 1394	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black <i>Some:</i> Enhanced Optical USB Mouse, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black													
Mouse														
Power supply	150 watts, autosensing, 85% PSU													
Mechanical	<ul style="list-style-type: none"> <li>Business black color</li> <li>Carry handle in rear</li> <li>Support VESA mount (100mm)</li> </ul> <i>With Frame stand:</i> 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) <i>With Monitor stand:</i> 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		

# ThinkCentre M73z (10BB) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Chassis intrusion switch	Serial & PS/2 port	Stand type	Key-board/Mouse	Global	Preload	Ann date (mm/yy)
10BB0053US	i7-4790S	4GBx2 1600MHz	720p	1TB 7200	HD 4600	N7260	Media	None	None	Monitor	USB	None	Win7 P64 DG	Win8.1 11/14
10BBA0JJUS	i3-4150	4GBx1 1600MHz	720p	500G 7200	HD 4400	N7260	Media	None	None	Frame	USB	None	Win7 P64 DG	Win8.1 11/14
10BB0052US	i5-4590S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media	None	None	Monitor	USB	None	Win7 P64 DG	Win8.1 11/14

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>										<b>Preloaded operating system<sup>20</sup></b>			
Processor	<b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790S Processor (4 cores / 8 threads, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>										<i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller										<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution:</i> 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)										<b>Preloaded applications</b> (only some listed)			
DP dongle	None										<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Nitro Pro</li> </ul>			
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio													
Multi-touch	None													
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off													
Controls	Side buttons for brightness up, brightness down, and power on/off													
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide													
Optical Media reader	DVD burner, SATA 1.5Gb/s, 12.7mm high Optional 7-in-1 Single Slot media reader, via internal USB 2.0													
Chipset	<b>Intel H81 Express Chipset</b>													
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)													
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
PCIe Mini Card	One PCI Express® Mini Card slot													
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter													
Ethernet	One gigabit ethernet port, Intel I217-V													
Audio	High Definition (HD) Audio, Realtek ALC269VC													
Speaker	Two internal stereo speakers (2watt x 2)													
Intel AMT	None													
Modem	None													
IEEE 1394	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified			
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black										Supports ThinkVantage Technologies			
Power supply	150 watts, autosensing, 85% PSU										For compatible accessories, please go to TC-AQP sheet;			
Mechanical	<ul style="list-style-type: none"> <li>Business black color</li> <li>Carry handle in rear</li> <li>Support VESA mount (100mm)</li> </ul> <i>With Frame stand:</i> 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) <i>With Monitor stand:</i> 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;										For Lenovo service upgrade options, please go to S-TC sheet			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information

# ThinkCentre M73z (10BB) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Chassis Media intrusion reader	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10BB000EUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media Switch	None	Monitor	USB	G P	Win7 Pro64 DG	09/24/13
10BB001DUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media Switch	None	Frame	USB	G P	Win7 Pro64	09/24/13
10BB002VUS	i3-4130	4GBx1 1600MHz	720p	500G 7200	HD 4400	N2230	Media Switch	None	Monitor	USB	G P	Win7 Pro64 DG	09/24/13
10BB004QUS	i5-4590S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media Switch	None	Frame	USB	G P	Win7 Pro64	06/24/14
10BB004TUS	i5-4590S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media Switch	None	Frame	USB	G P	Win7 Pro64	06/24/14

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>											<b>Preloaded operating system<sup>20</sup></b>
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Some: Windows 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution: 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>											<b>Preloaded applications</b> (only some listed)
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Nitro Pro</li> </ul>
Display	20.0" (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio											
Multi-touch	None											
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off											
Controls	Side buttons for brightness up, brightness down, and power on/off											
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high											
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0											
Chipset	<b>Intel H81 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)											
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel I217-V											
Audio	High Definition (HD) Audio, Realtek ALC269VC											
Speaker	Two internal stereo speakers (2watt x 2)											
Intel AMT	None											
Modem	None											
IEEE 1394	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, Lenovo logo											
Power supply	150 watts, autosensing, 85% PSU											
Mechanical	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Carry handle in rear</li> <li>• Support VESA mount (100mm)</li> </ul> With Frame stand: 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) With Monitor stand: 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies  For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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(MDST1-6) July 2014

# ThinkCentre M73z (10BB) - GMP (Win8/8.1)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Chassis Media intrusion reader switch	Serial & PS/2 port	Stand type	Key-board/ Mouse	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10BB001CUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N2230	Media Switch	None	Frame	USB	G P	Win8 Pro64	09/24/13
10BB003VUS	i5-4570S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media Switch	None	Frame	USB	G P	Win8.1 Pro64	02/25/14
10BB004PUS	i5-4590S	4GBx1 1600MHz	720p	500G 7200	HD 4600	N7260	Media Switch	None	Frame	USB	G P	Win8.1 Pro64	06/24/14

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>	
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Some: Windows® 8 Pro 64-bit Some: Windows 8.1 Pro 64-bit	
Implementation	Processor in LGA1150 socket											<b>Web install applications</b> (only some listed)	
Memory	16GB max, <b>1600MHz DDR3L</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Password Manager</li> </ul>	
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; <i>Maximum resolution:</i> 1600x900 (panel)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)											<b>Preloaded applications</b> (only some listed)	
DP dongle	None											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility (for Windows 8 only)</li> <li>• Lenovo Cloud Storage by SugarSync (for Windows 8 only)</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote®</li> <li>• Intel AppUp</li> <li>• Nitro Pro</li> <li>• AccuWeather</li> <li>• Norton™ Studio</li> <li>• Pokki (for Windows 8.1 only)</li> <li>• Hightail (for Windows 8.1 only)</li> </ul>	
Display	<b>20.0"</b> (508mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio												
Multi-touch	None												
Camera	Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off												
Controls	Side buttons for brightness up, brightness down, and power on/off												
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm												
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high												
Media reader	Optional 7-in-1 Single Slot media reader, via internal USB 2.0												
Chipset	<b>Intel H81 Express Chipset</b>												
Rear ports	Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)												
Side ports	Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
PCIe Mini Card	One PCI Express® Mini Card slot												
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2												
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
Ethernet	One gigabit ethernet port, Intel I217-V												
Audio	High Definition (HD) Audio, Realtek ALC269VC												
Speaker	Two internal stereo speakers (2watt x 2)												
Intel AMT	None												
Modem	None												
IEEE 1394	None												
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>	
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant EuP 2013 Certified	
Mouse	Enhanced Optical USB Mouse, Lenovo logo											Supports ThinkVantage Technologies	
Power supply	150 watts, autosensing, 85% PSU											For compatible accessories, please go to TC-AQP sheet;	
Mechanical	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Carry handle in rear</li> <li>• Support VESA mount (100mm)</li> </ul> With Frame stand: 19.9" W X 3.56" D X 15.9" H 506mm W X 90.5mm D X 404.75mm H 16.4 lb (7.46 kg) in maximum configuration Adjustable stand (between 10° and 35°) With Monitor stand: 19.9" W X 9.83" D X 16.7" H 506mm W X 249.8mm D X 423.9mm H 19.5 lb (8.84 kg) in maximum configuration Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;											For Lenovo service upgrade options, please go to S-TC sheet	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information

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(MDST1-7) July 2014

# ThinkCentre M78 Small and Tower

# ThinkCentre®



Lenovo ThinkCentre M78  
Small and Tower



Lenovo ThinkCentre M78 Tower  
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M78 Small



Lenovo ThinkCentre M78 Small  
with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M78 Tower



Lenovo ThinkCentre M78 Tower

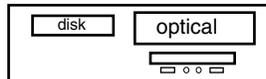
# ThinkCentre M78 Small (10BU) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global	Preload	Ann date (mm/dd/yy)
10BU0000US	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	None	HD 7480D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0001US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0002US	4x3	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0003US	4x3	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0004US	4x3	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BU0005US	4x3	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0006US	4x3	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0007US	4x3	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BU0008US	4x3	A4-6300B	2GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/22/13
10BU0009US	4x3	A6-6400B	2GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	None	Win7 Pro64 (DG)	12/10/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>		<p><b>Preloaded operating system</b></p> <p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><b>Ready to install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• PC Device Stage</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Evernote®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Nitro Pro</li> </ul>
Processor	<p><b>AMD APU A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz)</p> <p><b>AMD APU A4-6300B</b> (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz)</p> <p><b>AMD APU A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz)</p> <p><b>AMD APU A6-6400B</b> (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz)</p> <p><b>AMD APU A8-6500B</b> (quad-core, 3.5GHz, 4MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)</p>		
Implementation	Processor in Socket FM2		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets		
Graphics	<p><b>AMD Radeon HD Graphics</b>, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors;</p> <p><i>Maximum resolution:</i> 1920x1200 (VGA) @ 60Hz; 2560x2048 (DisplayPort) @ 60Hz</p> <p><i>Some:</i> <b>AMD Radeon™ HD 8570</b>, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts;</p> <p><i>Max resolution:</i> 4096x2160 (HDMI) @ 24Hz; 2048x1536 (VGA) @ 85Hz</p>		
DP cable	<i>Some:</i> DisplayPort to DisplayPort monitor cable		
Disk	SATA 6.0Gb/s 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1		
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar		
eSATA port	None		
Media reader	None		
Chipset	<b>AMD A75 Chipset</b>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
PCIe WLAN	None		
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Floor Stand	Optional System floor stand for vertical orientation		
Power supply	240 watts, autosensing		
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 13.3" W X 15.0" D X 3.9" H</li> <li>• 339mm W X 381mm D X 100mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Toolless cover flips up and tilts backward on rear hinges</li> <li>• Toolless disk and optical drive removal</li> <li>• Toolless adapter retention</li> </ul>		
Bay	<p>Bay 1: 5.25", 1.6" high, access, std optical</p> <p>Bay 2: 3.5", 1" high, no access, std disk</p> <p>Bay 3: 3.5", .5" high, access, opt reader</p>		
Slot	<p>Slot 1: Low Profile, PCI Express 2.0 x16 (40w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>		
Limited Warranty	<p><b>3-years, limited onsite service</b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>		



See footnotes for important warranty information  
US model(s) announced October 1, 2013, October 22, 2013, or December 10, 2013

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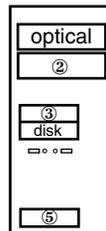
# ThinkCentre M78 Tower (10BR) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date (mm/dd/yy)
10BR0000US	4x5	A4-5300	2GBx1	250G 7200	DVD±RW	None	None	HD 7480D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0001US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0002US	4x5	A4-6300B	2GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0004US	4x5	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0005US	4x5	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	None	None	Win7 P64 DG Win8	10/01/13
10BR0006US	4x5	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR0007US	4x5	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR0008US	4x5	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 P64 DG Win8	10/01/13
10BR000AUS	4x5	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 P64 DG Win8.1	04/08/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<b>Mainstream enterprise stability and manageability</b>											<b>Preloaded operating system</b>
Processor	<b>AMD APU A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A4-6300B</b> (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A6-6400B</b> (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A8-6500B</b> (quad-core, 3.5GHz, 4MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in Socket FM2											<b>Ready to install applications</b> (only some listed)
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz <i>Some:</i> <b>AMD Radeon™ HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution:</i> 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz											<b>Preloaded applications</b> (only some listed)
DP cable	<i>Some:</i> DisplayPort to DisplayPort monitor cable											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• PC Device Stage</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Evernote®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Nitro Pro</li> </ul>
Disk	SATA 6.0Gb/s 7200 rpm											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1											
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>AMD A75 Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
PCIe WLAN	None											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Modem	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts, manual switch											
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 27.5 lb (12.5 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed											
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3											
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>RoHS-compliant</b> Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet



See footnotes for important warranty information  
 US model(s) announced October 1, 2013 or April 8, 2014

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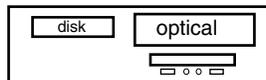
# ThinkCentre M78 Small (10BT) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	2nd Serial	Floor stand	DP to DP Cable	Preload	Ann date (mm/dd/yy)
10BT0004US	4x3	A8-5500B	8GBx1	1TB 7200	DVD±RW	None	Media	HD 8570	None	None	Serial	Stand	Cable	Win7 Pro64 (DG)	10/01/13
10BT0005US	4x3	A4-5300	4GBx1	500G 7200	DVD±RW	None	None	HD 7480D	None	None	Serial	Stand	None	Win7 Pro64 (DG)	10/01/13
10BT0006US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	N105	Media	HD 7540D	None	None	Serial	Stand	None	Win7 Pro64 (DG)	10/01/13

● 1-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>		
Processor	<b>AMD APU A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit		
Implementation	Processor in Socket FM2											<b>Ready to install applications</b> (only some listed)		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>		
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz</i> <i>Some: <b>AMD Radeon™ HD 8570</b>, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i>											<b>Preloaded applications</b> (only some listed)		
DP cable	<i>Some: DisplayPort to DisplayPort monitor cable</i>											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Power Manager</li> <li>● View Management Utility</li> <li>● PC Device Stage</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Evernote®</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Nitro Pro</li> </ul>		
Disk	SATA 6.0Gb/s 7200 rpm													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1													
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar													
eSATA port	None													
Media reader	<i>Some: 29-in-1 media reader, internal USB 2.0</i>													
Chipset	<b>AMD A75 Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
PCIe WLAN	<i>Some: 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1</i>													
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	System floor stand for vertical orientation													
Power supply	240 watts, autosenesing													
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.0" D X 3.9" H</li> <li>● 339mm W X 381mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>											<b>Security</b>		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader											<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3											RoHS-compliant Supports ThinkVantage Technologies		
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		



See footnotes for important warranty information  
US model(s) announced October 1, 2013

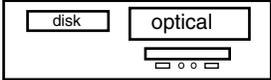
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# ThinkCentre M78 Small (10BT)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	DP to DP Cable	Global	Preload	Ann date (mm/dd/yy)
10BT0000US	4x3	A4-5300B	4GBx1	500G 7200	DVD±RW	None	None	HD 7480D	Switch	None	Stand	None	None	Win7 Pro64	10/01/13
10BT0008US	4x3	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT0009US	4x3	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT000AUS	4x3	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	Stand	None	None	Win7 Pro64 (DG)	10/01/13
10BT000BUS	4x3	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13
10BT000CUS	4x3	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Stand	Cable	None	Win7 Pro64 (DG)	10/01/13

●3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>AMD APU A4-5300B</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A4-6300B</b> (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A6-6400B</b> (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A8-6500B</b> (quad-core, 3.5GHz, 4MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation Processor in Socket FM2		<b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	<b>Preloaded applications</b> (only some listed)
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz <i>Some:</i> <b>AMD Radeon™ HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution:</i> 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz	● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● PC Device Stage ● Lenovo Cloud Storage by SugarSync ● Lenovo Solution Center ● Lenovo Message Center Plus ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ ● Evernote® ● Microsoft® Office preloaded; purchase a product key to activate ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) ● Nitro Pro
DP cable	<i>Some:</i> DisplayPort to DisplayPort monitor cable	
Disk	SATA 6.0Gb/s 7200 rpm	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	
eSATA port	None	
Media reader	None	
Chipset	<b>AMD A75 Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
PCIe WLAN	None	
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	System floor stand for vertical orientation	
Power supply	240 watts, autosensing	
Machine	● Business black color; metal case ● 13.3" W X 15.0" D X 3.9" H ● 339mm W X 381mm D X 100mm H ● 16.5 lb (7.5 kg) in maximum configuration ● Toolless cover flips up and tilts backward on rear hinges ● Toolless disk and optical drive removal ● Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Security</b> ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) ● Cable lock ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Individual USB port disablement ● Chassis intrusion switch on selected mode(s)
		<b>RoHS-compliant</b>
		Supports ThinkVantage Technologies
		For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced October 1, 2013

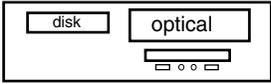
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# ThinkCentre M78 Small (10BS) - ES 5.2

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	2nd Serial / Parallel	Floor stand	DP to DP Cable	Preload	Ann date (mm/dd/yy)
10BS0002US	4x3	A8-6500B	4GBx1	1TB 7200	DVD±RW	N2230	None	HD 8570	Switch	None	S P	Stand	Cable	Win8 Pro64	10/01/13

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>
Processor	<b>AMD APU A8-6500B</b> (quad-core, 3.5GHz, 4MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon™ HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)											Windows® 8 Pro 64-bit
Implementation	Processor in Socket FM2											<b>Ready to install applications</b> (only some listed)
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>● Password Manager</li> </ul>
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz <i>Some:</i> <b>AMD Radeon™ HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution:</i> 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz											<b>Preloaded applications</b> (only some listed)
DP cable	<i>Some:</i> DisplayPort to DisplayPort monitor cable											<ul style="list-style-type: none"> <li>● ThinkVantage® System Update</li> <li>● View Management Utility</li> <li>● Lenovo® Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Desktop Power Manager</li> <li>● PC Device Stage</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● PC Device Stage</li> <li>● Evernote®</li> <li>● Skype™</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Nitro Pro</li> <li>● AccuWeather</li> <li>● Norton Studio</li> </ul>
Disk	SATA 6.0Gb/s 7200 rpm											
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1											
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar											
eSATA port	None											
Media reader	None											
Chipset	<b>AMD A75 Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Modem	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											<b>Security</b>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>
Floor Stand	System floor stand for vertical orientation											
Power supply	240 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 13.3" W X 15.0" D X 3.9" H</li> <li>● 339mm W X 381mm D X 100mm H</li> <li>● 16.5 lb (7.5 kg) in maximum configuration</li> <li>● Toolless cover flips up and tilts backward on rear hinges</li> <li>● Toolless disk and optical drive removal</li> <li>● Toolless adapter retention</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader											
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3											
												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced October 1, 2013

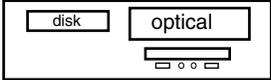
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# ThinkCentre M78 Small (10BS) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	Floor stand	DP to Cable	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10BS0005US	4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	N105	None	HD 8470	Switch	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10BS0006US	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	Switch	None	Stand	None	G P	Win7 Pro64 (DG)	10/01/13
10BS0007US	4x3	A4-5300B	2GBx1	500G 7200	DVD	None	None	HD 7480D	Switch	None	Stand	None	G P	Win7 Pro64	10/01/13

•Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>			
Processor	<b>AMD APU A4-5300B</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)											Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in Socket FM2											<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz Some: <b>AMD Radeon™ HD 8470</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>			
DP cable	None														
Disk	SATA 6.0Gb/s 7200 rpm														
Optical	Some: DVD-ROM DL SATA 1.5Gb/s Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1														
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar														
eSATA port	None														
Media reader	None														
Chipset	<b>AMD A75 Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)														
PCIe WLAN	Some: 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	System floor stand for vertical orientation														
Power supply	240 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>13.3" W X 15.0" D X 3.9" H</li> <li>339mm W X 381mm D X 100mm H</li> <li>16.5 lb (7.5 kg) in maximum configuration</li> <li>Toolless cover flips up and tilts backward on rear hinges</li> <li>Toolless disk and optical drive removal</li> <li>Toolless adapter retention</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Cable lock</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader														
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3											EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant			
												Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information  
US model(s) announced October 1, 2013

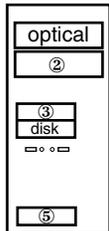
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# ThinkCentre M78 Tower (10BQ)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date (mm/dd/yy)
10BQ0000US	4x5	A4-5300B	4Gx1+2Gx3	500G Hybrid	DVD±RW	None	None	HD 7480D	Switch	None	None	None	Win7 Pro64	10/01/13
10BQ0004US	4x5	A4-5300	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0005US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0006US	4x5	A8-5500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0008US	4x5	A4-6300B	4GBx1	500G 7200	DVD±RW	None	None	HD 8370D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ0009US	4x5	A6-6400B	4GBx1	500G 7200	DVD±RW	None	None	HD 8470D	None	None	None	None	Win7 Pro64 (DG)	10/01/13

●3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>AMD APU A4-5300</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A4-5300B</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A4-6300B</b> (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A6-6400B</b> (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in Socket FM2	<b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	<b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● PC Device Stage ● Lenovo Cloud Storage by SugarSync ● Lenovo Solution Center ● Lenovo Message Center Plus ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ ● Evernote® ● Microsoft® Office preloaded; purchase a product key to activate ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) ● Nitro Pro
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz <i>Some:</i> <b>AMD Radeon™ HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution:</i> 4096x2160 (HDMI) @24Hz; 2048x1536 (VGA) @85Hz	
DP cable	None	
Disk	<i>Some:</i> SATA 6.0Gb/s 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	
eSATA port	None	
Media reader	None	
Chipset	<b>AMD A75 Chipset</b>	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
PCIe WLAN	None	
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts, manual switch	
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 27.5 lb (12.5 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed	
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected mode(s)</li> </ul> <b>RoHS-compliant</b> Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced October 1, 2013

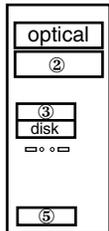
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# ThinkCentre M78 Tower (10BQ) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global	Preload	Ann date (mm/dd/yy)
10BQ000AUS	4x5	A8-6500B	4GBx1	500G 7200	DVD±RW	None	None	HD 8570D	None	None	None	None	Win7 Pro64 (DG)	10/01/13
10BQ000BUS	4x5	A8-6500B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13
10BQ000CUS	4x5	A4-6300B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13
10BQ000DUS	4x5	A6-6400B	8GBx1	1TB 7200	DVD±RW	None	None	HD 8570	None	None	Cable	None	Win7 Pro64 (DG)	10/01/13

•3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>AMD APU A4-6300B</b> (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon™ HD 8370D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A6-6400B</b> (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A8-6500B</b> (quad-core, 3.5GHz, 4MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)										Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in Socket FM2										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz</i> <i>Some: AMD Radeon™ HD 8570</i> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i>										<b>Preloaded applications</b> (only some listed)			
DP cable	<i>Some: DisplayPort to DisplayPort monitor cable</i>										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• PC Device Stage</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Evernote®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Nitro Pro</li> </ul>			
Disk	<i>Some: SATA 6.0Gb/s 7200 rpm</i>													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1													
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar													
eSATA port	None													
Media reader	None													
Chipset	<b>AMD A75 Chipset</b>													
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)													
PCIe WLAN	None													
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, manual switch													
Machine	<ul style="list-style-type: none"> <li>• Business black color; metal case</li> <li>• 6.9" W X 17.4" D X 16.3" H</li> <li>• 175mm W X 442mm D X 414mm H</li> <li>• 27.5 lb (12.5 kg) in maximum configuration</li> <li>• Toolless cover removal, toolless adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>										<b>Security</b>			
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Cable lock</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3													
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<b>RoHS-compliant</b> <b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
US model(s) announced October 1, 2013

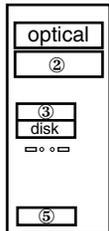
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# ThinkCentre M78 Tower (10BN) - ES 5.2 (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	2nd Serial / Parallel	DP to DP Cable	DP to DVI Dongle	Preload	Ann date (mm/dd/yy)
10BN0001US	4x5	A8-5500B	4Gx1+2Gx3	1TB 7200	DVD±RW	N2230	None	HD 8470	Switch	None	S P	Cable	Dongle	Win8 Pro64	10/01/13

●3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>				
Processor	<b>AMD APU A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon™ HD 7560D Graphics, DDR3 memory controller (up to 1866MHz) Processor in Socket FM2										Windows® 8 Pro 64-bit				
Implementation	Processor in Socket FM2										<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>● Password Manager</li> </ul>				
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz <i>Some:</i> <b>AMD Radeon™ HD 8470</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, <i>Max resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz										<b>Preloaded applications</b> (only some listed)				
DP cable	<i>Some:</i> DisplayPort to DisplayPort monitor cable										<ul style="list-style-type: none"> <li>● ThinkVantage® System Update</li> <li>● View Management Utility</li> <li>● Lenovo® Support</li> <li>● Lenovo Companion</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Desktop Power Manager</li> <li>● PC Device Stage</li> <li>● Microsoft® Office preloaded; purchase a product key to activate</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● PC Device Stage</li> <li>● Evernote®</li> <li>● Skype™</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Nitro Pro</li> <li>● AccuWeather</li> <li>● Norton Studio</li> </ul>				
DP dongle	<i>Some:</i> DisplayPort to DVI-D cable														
Disk	<i>Some:</i> SATA 6.0Gb/s 7200 rpm														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1														
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar														
eSATA port	None														
Media reader	None														
Chipset	<b>AMD A75 Chipset</b>														
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2														
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>● Business black color; metal case</li> <li>● 6.9" W X 17.4" D X 16.3" H</li> <li>● 175mm W X 442mm D X 414mm H</li> <li>● 27.5 lb (12.5 kg) in maximum configuration</li> <li>● Toolless cover removal, toolless adapter retention</li> <li>● Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed														
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3														
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>● Cable lock</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>				
											EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant				
											Supports ThinkVantage Technologies				
											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
US model(s) announced October 1, 2013

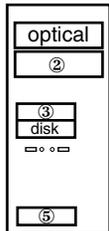
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# ThinkCentre M78 Tower (10BN) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Chassis intrusion switch	PS/2 port	DP to DP Cable	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10BN0005US	4x5	A4-5300B	2GBx1	500G 7200	DVD	None	None	HD 7480D	Switch	None	None	G P	Win7 Pro64	10/01/13
10BN0006US	4x5	A8-5500B	4GBx1	1TB 7200	DVD±RW	N105	None	HD 8470	Switch	None	None	G P	Win7 Pro64 (DG)	10/01/13
10BN0007US	4x5	A6-5400B	4GBx1	500G 7200	DVD±RW	None	None	HD 7540D	Switch	None	None	G P	Win7 Pro64 (DG)	10/01/13

●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>
Processor	<b>AMD APU A4-5300B</b> (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz) <b>AMD APU A6-5400B</b> (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz) <b>AMD APU A8-5500B</b> (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)											Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in Socket FM2											<b>Ready to install applications</b> (only some listed)
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
Graphics	<b>AMD Radeon HD Graphics</b> , integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; <i>Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz</i> Some: <b>AMD Radeon™ HD 8470</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<b>Preloaded applications</b> (only some listed)
DP cable	None											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Power Manager</li> <li>View Management Utility</li> <li>PC Device Stage</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Evernote®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Nitro Pro</li> </ul>
Disk	Some: SATA 6.0Gb/s 7200 rpm											
Optical	Some: DVD-ROM DL SATA 1.5Gb/s Drive											
SATA controller	Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											
Onboard SATA	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1											
eSATA port	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar											
Media reader	None											
Chipset	<b>AMD A75 Chipset</b>											
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)											
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)											
PCIe WLAN	Some: 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1											
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)											
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											
Speaker	Internal speaker for business audio											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®											
Modem	None											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	280 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>Business black color; metal case</li> <li>6.9" W X 17.4" D X 16.3" H</li> <li>175mm W X 442mm D X 414mm H</li> <li>27.5 lb (12.5 kg) in maximum configuration</li> <li>Toolless cover removal, toolless adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>											
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader* Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk* *bay only available on models with HDD/SSD/reader installed											
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3											
												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Cable lock</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced October 1, 2013

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(ADR1T-5) October 2013

**Memory**

2GB PC3-12800 DDR3 UDIMM	0A65728	ann	06/05/12
4GB PC3-12800 DDR3 UDIMM	0A65729	ann	06/05/12
8GB PC3-12800 DDR3 UDIMM	0A65730	ann	06/05/12

More information at

[www.lenovo.com/support/desktopmemorycompatibility](http://www.lenovo.com/support/desktopmemorycompatibility)

**Optical**

Lenovo® Super Multi-Burner SATA Drive	0A65618	ann	08/23/11
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**Storage and removable storage**

500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann	11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann	08/19/08
USB 2.0 Portable 500GB Hard Disk	45K1690	ann	05/26/09
USB 3.0 Secure 500GB Hard Drive	0A65619	ann	11/29/11
USB 3.0 Secure 750GB Hard Drive	0A65616	ann	11/29/11
USB 3.0 Secure 1TB Hard Drive	0A65621	ann	08/28/12
Slim USB Portable DVD Burner	0A33988	ann	06/14/11

**Graphics**

*Small 5100/4865/2113/2114 support Low Profile:*

NVIDIA NVS 510 2GB Graphics Card by Lenovo <sup>67</sup>	0B47077	ann	01/29/13
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*Tower 2111/1766/1562/1565 support 75 watts max:*

NVIDIA NVS 510 2GB Graphics Card by Lenovo <sup>67</sup>	0B47077	ann	01/29/13
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<sup>67</sup> Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.

More information at [www.lenovo.com/support/graphiccards](http://www.lenovo.com/support/graphiccards)

**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann	06/21/05
Enhanced Performance USB Keyboard	73P2620	ann	03/23/04
Ultraslim Plus Wireless Keyboard and Mouse <sup>52</sup>	0A34032	ann	04/05/11
ThinkPad® USB Keyboard with TrackPoint	55Y9003	ann	08/18/09
Lenovo USB Fingerprint Keyboard	73P4730	ann	02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann	03/24/09

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at [www.lenovo.com/support/keyboards](http://www.lenovo.com/support/keyboards)

**Mouse**

Lenovo Optical Mouse (USB)	06P4069	ann	05/21/03
Lenovo ScrollPoint® Mouse(USB, Optical)	31P7405	ann	08/27/02
ThinkPad Travel Mouse (USB, Optical)	31P7410	ann	06/04/02
Lenovo Laser Mouse (USB)	41U3074	ann	01/23/07
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188	ann	12/20/11
ThinkPad USB Laser Mouse	57Y4635	ann	12/15/09

More information at [www.lenovo.com/support/mice](http://www.lenovo.com/support/mice)

**Modem**

USB 2.0 Lenovo Modem	43R1814	ann	02/26/08
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**Multimedia**

ThinkPad In-Ear Headphones with mic <sup>60</sup>	57Y4488	ann	01/07/10
Lenovo Mini Speakers M220	55Y2033	ann	01/07/10
Lenovo Speakers M0520 (black)	57Y6360	ann	02/08/11
Lenovo Speakers M0520 (red)	57Y6361	ann	02/08/11
Lenovo Headset P550	55Y2065		
Lenovo Headset P950 (black)	57Y6605	ann	02/08/11

<sup>60</sup> Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

**Security**

Kensington® MicroSaver® Cable Lock <sup>56</sup>	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann	09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann	08/24/10
USB Gemplus GemPC Smart Card Reader	41N3040	ann	02/21/06

<sup>56</sup> Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

**Monitors**

ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) <sup>69</sup>	2448MB6	ann	09/13/11
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	ann	10/20/09
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D) <sup>69</sup>	3024HC1	ann	05/01/12

<sup>69</sup> DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at [www.lenovo.com/support/monitors](http://www.lenovo.com/support/monitors)

**Monitor Accessories<sup>46</sup>**

DisplayPort™ to Single-link DVI-D Cable	45J7915	ann	08/05/08
DisplayPort to VGA Monitor Cable	57Y4393	ann	08/04/09
DisplayPort to DisplayPort Monitor Cable	0A36537	ann	09/13/11
Lenovo USB Soundbar	0A36190	ann	05/01/12
Kensington MicroSaver Cable Lock <sup>56</sup>	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock <sup>56</sup>	45K1620	ann	09/30/08
Lenovo Security Cable Lock <sup>56</sup>	57Y4303	ann	08/24/10
ThinkCentre Extend Arm	57Y4352	ann	07/06/10

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories:

[www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories

[www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems



ThinkCentre M79  
SFF and Tower



ThinkCentre M79 SFF with  
optional monitor



ThinkCentre M79 Tower with  
optional monitor



ThinkCentre M79 SFF  
front and back view



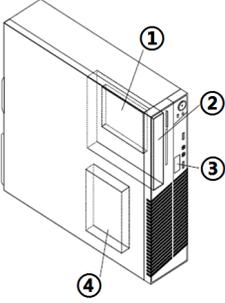
ThinkCentre M79 Tower  
front and back view



ThinkCentre M79 SFF  
inside view

# ThinkCentre M79 SFF Platform Specifications

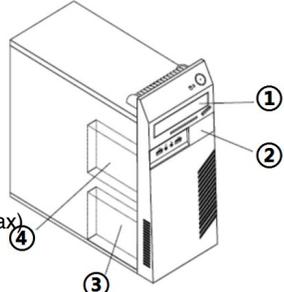
Product Specifications Reference (PSREF)

Processor	AMD A4, A6, A8, or A10 series APUs	Keyboard	Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo Some: Lenovo USB Fingerprint Keyboard (USB connector) Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black Some: Enhanced Optical USB Mouse, black, Lenovo logo Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black																																				
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A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series																																		
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series																																		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Mechanical	<ul style="list-style-type: none"> <li>Business black color; metal case, 11L</li> <li>13.2" W X 15.0" D X 3.9" H</li> <li>335mm W X 382mm D X 101mm H</li> <li>14.6 lb (6.6 kg) in maximum configuration</li> <li>Bay 1: N/A, N/A, internal, opt SSD</li> <li>Bay 2: 5.25", 1.6" high, external, std disk</li> <li>Bay 3: N/A, N/A, external, opt reader</li> <li>Bay 4: 3.5", 1" high, internal, std disk</li> <li>*bay only available on models with HDD/SSD/reader installed</li> <li>Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)</li> <li>Slot 2: Low Profile, PCIe 2.0 x1</li> <li>Slot 2: Low Profile, PCIe 2.0 x1</li> <li>Slot 4: Low Profile, 32-bit PCI 2.3</li> </ul> 																																				
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide	Floor Stand	Optional system floor stand for vertical orientation																																				
Optical	Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: DVD-ROM SATA 1.5Gb/s Drive Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive	Power supply	Some: 180 watts, autosensing, 100-240V (50-60Hz) Some: 240 watts, autosensing, 100-240V (50-60Hz) Some: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)																																				
Onboard SATA Media reader	SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support Optional 7-in-1 single slot media card reader	Limited warranty <sup>3</sup>	Some: <b>3-years, limited onsite service</b> / service upgrades available Some: <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																																				
Graphics	<b>AMD Radeon™ Graphics</b> in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays; Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40W; Max resolution: 4096x2160 (HDMI) @24Hz; 2048x1536 (VGA) @85Hz Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz	Preload	Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 7 Professional 32 Some: Windows 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote®</li> <li>Nitro Pro</li> </ul>																																				
DP cable	Optional DisplayPort to DVI-D monitor cable		Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit <b>Web install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Password Manager</li> <li>Preloaded applications</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>Desktop Power Manager</li> <li>Lenovo Solution Center</li> <li>Lenovo Support</li> <li>Lenovo Companion</li> <li>Lenovo SHAREit</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote®</li> <li>Nitro Pro</li> <li>AccuWeather</li> <li>Norton™ Studio</li> <li>Pokki</li> <li>Hightail</li> </ul>																																				
Chipset	<b>AMD A78 Chipset</b>	Environment	ENERGY STAR® 6.0 (Need 85% PSU and Windows OS); EPEAT™ Gold rating (Need 85% PSU and Windows OS); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																																				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Accessories	For compatible accessories, please go to TC-AQP sheet																																				
Rear ports	Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports																																						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																						
IEEE 1394	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear																																						
Audio support	High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)																																						
WLAN <sup>13</sup>	Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2																																						
Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																						
Ethernet	One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®																																						
Modem	None																																						
Manageability	Enhanced Manageability with DASH 1.1																																						
Security chip	Trusted Platform Module, TCG 1.2-compliant																																						
Security features	<ul style="list-style-type: none"> <li>Padlock loop (in rear for opt padlock)</li> <li>Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>Cable lock to physically lock both keyboard and mouse (optional)</li> <li>Power-on password</li> </ul>	<ul style="list-style-type: none"> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Optional Chassis intrusion switch</li> </ul>																																					

See footnotes for more detailed information

# ThinkCentre M79 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor	AMD A4, A6, A8, or A10 series APUs	Keyboard	Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo Some: Lenovo USB Fingerprint Keyboard (USB connector) Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black Some: Enhanced Optical USB Mouse, black, Lenovo logo Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black																																				
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A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series																																		
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series																																		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Mechanical	<ul style="list-style-type: none"> <li>Business black color; metal case, 20L</li> <li>6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>160mm W X 422mm D X 388mm H</li> <li>20.7 lb (9.4 kg) in maximum configuration</li> <li>Bay 1: 5.25", 1.6" high, access, std optical</li> <li>Bay 2: N/A, N/A, access, opt reader</li> <li>Bay 3: 3.5", 1" high, no access, std disk</li> <li>Bay 4: 3.5", 1" high, no access, opt disk</li> <li>*bay only available on models with HDD/SSD/reader installed</li> <li>Slot 1: half-length, full-height, PCIe 3.0 x16 (60w max)</li> <li>Slot 2: half-length, full-height, PCIe 2.0 x1</li> <li>Slot 3: half-length, full-height, PCIe 2.0 x1</li> <li>Slot 4: half-length, full-height, 32-bit PCI 2.3</li> </ul> 																																				
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide	Power supply	Some: 180 watts, autosensing, 100-240V (50-60Hz) Some: 280 watts, autosensing, 100-240V (50-60Hz) Some: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)																																				
Optical	Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: DVD-ROM SATA 1.5Gb/s Drive Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive	Limited warranty <sup>3</sup>	Some: <b>3-years, limited onsite service</b> / service upgrades available Some: <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>																																				
Onboard SATA Media reader	SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support Optional 7-in-1 single slot media card reader	Preload	Some: Windows <sup>®</sup> 7 Professional 32/64 preinstalled through downgrade Some: Windows 7 Professional 32 Some: Windows 7 Professional 64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage<sup>®</sup> Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe<sup>®</sup> Reader<sup>®</sup></li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote<sup>®</sup></li> <li>Nitro Pro</li> </ul>																																				
Graphics	<b>AMD Radeon™ Graphics</b> in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays; <i>Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</i> Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40W; <i>Max resolution: 4096x2160 (HDMI) @24Hz; 2048x1536 (VGA) @85Hz</i> Some: <b>NVIDIA<sup>®</sup> GeForce<sup>®</sup> GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz</i>	DP cable	Optional DisplayPort to DVI-D monitor cable																																				
Chipset	<b>AMD A78 FCH</b>	Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																				
Rear ports	Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports	Rear ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																				
Rear audio ports	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear	IEEE 1394	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear																																				
Audio support	High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)	WLAN <sup>13</sup>	Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2																																				
Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	Bluetooth™ Ethernet Modem	None																																				
Manageability	Enhanced Manageability with DASH 1.1	Security chip	Trusted Platform Module, TCG 1.2-compliant																																				
Security features	<ul style="list-style-type: none"> <li>Padlock loop (in rear for opt padlock)</li> <li>Security slot (in rear for optional Kensington<sup>®</sup> MicroSaver<sup>®</sup> cable)</li> <li>Cable lock to physically lock both keyboard and mouse (optional)</li> <li>Power-on password</li> </ul>	<ul style="list-style-type: none"> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Optional <i>Chassis intrusion switch</i></li> </ul>	Environment	ENERGY STAR <sup>®</sup> 6.0 (Need 85% PSU and Windows OS); EPEAT™ Gold rating (Need 85% PSU and Windows OS); GREENGUARD <sup>®</sup> ; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																																			
		Accessories	For compatible accessories, please go to TC-AQP sheet																																				

See footnotes for more detailed information

# ThinkCentre M79 SFF (10CV) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CV0000US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0001US	A8 6500B	4Gx1	HD 8570D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0002US	A8 7600B	4Gx1	Radeon R7 500G 7200	DVD±RW	None	None	None	None	PS/2	None	None	None	None	None	None	USB	240W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CV0003US	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	10/14
10CV000VUS	A6 7400B	4Gx1	Radeon R5 500GB 7200	DVD±RW	None	Media	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000WUS	A8 7600B	4Gx1	Radeon R7 500GB 7200	DVD±RW	None	None	None	None	PS/2	None	USB	None	None	Cable	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000UUS	A10 7800B	8Gx1	Radeon R7 500GB 7200	DVD±RW	None	Media	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15
10CV000TUS	A10 7800B	4Gx1	Radeon R7 500GB 7200	DVD±RW	None	Media	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15

• For detailed platform specifications, please see [ThinkCentre M79 SFF Platform Specifications sheet](#)

Processor	AMD A4, A6, A8, or A10 series APUs	Manageability	Enhanced Manageability with DASH 1.1																																				
	<table border="1"> <thead> <tr> <th>APU</th> <th>Cores</th> <th>Frequency (Max/Base)</th> <th>L2 Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>A4-6300B</td> <td>2</td> <td>3.9 / 3.7</td> <td>1MB</td> <td>DDR3-1600</td> <td>HD 8370D</td> </tr> <tr> <td>A6-6400B</td> <td>2</td> <td>4.1 / 3.9</td> <td>1MB</td> <td>DDR3-1866</td> <td>HD 8470D</td> </tr> <tr> <td>A8-6500B</td> <td>4</td> <td>4.1 / 3.5</td> <td>4MB</td> <td>DDR3-1866</td> <td>HD 8570D</td> </tr> <tr> <td>A6 PRO-7400B</td> <td>2</td> <td>3.9 / 3.5</td> <td>1MB</td> <td>DDR3-1866</td> <td>Radeon R5 Series</td> </tr> <tr> <td>A8 PRO-7600B</td> <td>4</td> <td>3.8 / 3.1</td> <td>4MB</td> <td>DDR3-2133</td> <td>Radeon R7 Series</td> </tr> </tbody> </table>	APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics	A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D	A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D	A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D	A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series	A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series	Security chip	Trusted Platform Module, TCG 1.2-compliant
APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics																																		
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D																																		
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D																																		
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D																																		
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series																																		
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series																																		
		Security features	<ul style="list-style-type: none"> <li>• Padlock loop (in rear for opt padlock)</li> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Cable lock to physically lock both keyboard and mouse (optional)</li> <li>• Power-on, Admin, Hard Disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional <i>Chassis intrusion switch</i></li> </ul>																																				
		Keyboard	<b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo <b>Finger:</b> Lenovo USB Fingerprint Keyboard (USB connector) <b>2.4G:</b> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black <b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo <b>2.4G:</b> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black																																				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Mouse																																					
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5" <i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide	Mechanical	<ul style="list-style-type: none"> <li>• Business black color; metal case, 11L</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1</li> <li>*SSD bay only available on models with 2nd SSD installed</li> <li>Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3</li> </ul>																																				
Optical	<i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive <i>Some:</i> Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive	Floor Stand	Optional system floor stand for vertical orientation																																				
Onboard SATA	SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support	Power supply	<b>180W:</b> 180 watts, autosensing, 100-240V (50-60Hz) <b>240W:</b> 240 watts, autosensing, 100-240V (50-60Hz) <b>240W ES:</b> 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)																																				
Media reader	Optional 7-in-1 single slot media card reader	Limited warranty <sup>3</sup>	<i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>																																				
Graphics	<b>AMD Radeon™ Graphics</b> in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays; <i>Some:</i> <b>AMD Radeon HD 8570</b> , DirectX 11, one VGA, one HDMI, 40W; <i>Some:</i> <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, one VGA, one DisplayPort, 30W; <i>Some:</i> <b>AMD Radeon™ HD 7450</b> , DirectX 11, one DVI-I one DisplayPort, 25W; Optional DisplayPort to DVI-D monitor cable	Preload	<i>Some:</i> Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 32 <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit																																				
DP cable	Optional DisplayPort to DVI-D monitor cable	Environment	ENERGY STAR® 6.0 (Need 85% PSU and Windows OS); EPEAT™ Gold rating (Need 85% PSU and Windows OS); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																																				
Chipset	<b>AMD A78 Chipset</b>	Accessories	For compatible accessories, please go to TC-AQP sheet																																				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																						
Rear ports	Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports																																						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																						
IEEE 1394	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear																																						
Audio support	High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)																																						
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2																																						
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																						
Ethernet	One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®																																						
Modem	None																																						

See footnotes for more detailed information

# ThinkCentre M79 Tower (10CN) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CN0000US	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0001US	A8 6500B	4Gx1	HD 8570D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0002US	A8 7600B	4Gx1	Radeon R7	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN0003US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	07/14
10CN000WUS	A10 7800B	8Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	11/14
10CN000VUS	A10 7800B	4Gx1	Radeon R7	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	280W	Win7 P64 DG Win8.1	3-onsite	No	11/14
10CN000XUS	A6 7400B	4Gx1	Radeon R5	500GB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	No	02/15

• For detailed platform specifications, please see [ThinkCentre M79 Tower Platform Specifications sheet](#)

Processor	AMD A4, A6, A8, or A10 series APUs						Manageability Security chip Security features	Enhanced Manageability with DASH 1.1 Trusted Platform Module, TCG 1.2-compliant • Padlock loop (in rear for opt padlock) • Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock to physically lock both keyboard and mouse (optional) • Power-on, Admin, Hard Disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Optional <i>Chassis intrusion switch</i>
	APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics		
	A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D		
	A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D		
	A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D		
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series			
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets						Keyboard	<i>USB:</i> Preferred Pro USB Keyboard (USB connector), Lenovo logo <i>Finger:</i> Lenovo USB Fingerprint Keyboard (USB connector)
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5" <i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide						Mouse	<i>USB:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>2.4G:</i> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Optical	<i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive <i>Some:</i> Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive						Mechanical	• Business black color; metal case, 20L • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration Bay: 5.25" x1, 3.5" x2, MCR Bay x1 Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3
Onboard SATA Media reader	SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support Optional 7-in-1 single slot media card reader						Power supply	<i>180W:</i> 180 watts, autosensing, 100-240V (50-60Hz) <i>280W:</i> 280 watts, autosensing, 100-240V (50-60Hz) <i>280W ES:</i> 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)
Graphics	<b>AMD Radeon™ Graphics</b> in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays; <i>Some:</i> <b>AMD Radeon HD 8570</b> , DirectX 11, one VGA, one HDMI, 40W; <i>Some:</i> <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, one VGA, one DisplayPort, 30W; <i>Some:</i> <b>AMD Radeon™ HD 7450</b> , DirectX 11, one DVI-I one DisplayPort, 25W; Optional DisplayPort to DVI-D monitor cable						Limited warranty <sup>3</sup>	<i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>
DP cable	Optional DisplayPort to DVI-D monitor cable						Preload	<i>Some:</i> Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 32 <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit
Chipset	<b>AMD A78 FCH</b>						Environment	ENERGY STAR® 6.0 (Need 85% PSU and Windows OS); EPEAT™ Gold rating (Need 85% PSU and Windows OS); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)						Accessories	For compatible accessories, please go to TC-AQP sheet
Rear ports	Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports							
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)							
IEEE 1394	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear							
Audio support	High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)							
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2							
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
Ethernet	One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®							
Modem	None							

See footnotes for more detailed information

# ThinkCentre M79 SFF (10CT)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CT0006US	A4 6300B	2Gx1	HD 8370D	250G 7200	DVD	None	None	None	PS/2	None	None	None	Switch	None	None	USB	240W ES	Win7 Pro32	3-onsite	G	07/14
10CT0007US	A6 7400B	2Gx1	Radeon R5	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	Switch	None	None	USB	240W ES	Win7 Pro32	3-onsite	G	07/14
10CT0008US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CT0009US	A6 6400B	4Gx1	HD 8470D	500G 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CT000AUS	A8 7600B	8Gx1	Radeon R7	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CT000BUS	A8 7600B	8Gx1	GT 620	500G 7200	DVD±RW	8723BE	None	None	PS/2	None	None	None	None	None	None	USB	240W ES	Win7 P64 DG Win8.1	3-onsite	None	08/14

• For detailed platform specifications, please see [ThinkCentre M79 SFF Platform Specifications sheet](#)

Processor	AMD A4, A6, A8, or A10 series APUs	Manageability	Enhanced Manageability with DASH 1.1																																				
	<table border="1"> <thead> <tr> <th>APU</th> <th>Cores</th> <th>Frequency (Max/Base)</th> <th>L2 Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>A4-6300B</td> <td>2</td> <td>3.9 / 3.7</td> <td>1MB</td> <td>DDR3-1600</td> <td>HD 8370D</td> </tr> <tr> <td>A6-6400B</td> <td>2</td> <td>4.1 / 3.9</td> <td>1MB</td> <td>DDR3-1866</td> <td>HD 8470D</td> </tr> <tr> <td>A8-6500B</td> <td>4</td> <td>4.1 / 3.5</td> <td>4MB</td> <td>DDR3-1866</td> <td>HD 8570D</td> </tr> <tr> <td>A6 PRO-7400B</td> <td>2</td> <td>3.9 / 3.5</td> <td>1MB</td> <td>DDR3-1866</td> <td>Radeon R5 Series</td> </tr> <tr> <td>A8 PRO-7600B</td> <td>4</td> <td>3.8 / 3.1</td> <td>4MB</td> <td>DDR3-2133</td> <td>Radeon R7 Series</td> </tr> </tbody> </table>	APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics	A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D	A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D	A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D	A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series	A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series	Security chip	Trusted Platform Module, TCG 1.2-compliant
APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics																																		
A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D																																		
A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D																																		
A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D																																		
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series																																		
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series																																		
		Security features	<ul style="list-style-type: none"> <li>• Padlock loop (in rear for opt padlock)</li> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Cable lock to physically lock both keyboard and mouse (optional)</li> <li>• Power-on, Admin, Hard Disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional <i>Chassis intrusion switch</i></li> </ul>																																				
		Keyboard	<p><b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo</p> <p><b>Finger:</b> Lenovo USB Fingerprint Keyboard (USB connector)</p> <p><b>2.4G:</b> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p> <p><b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo</p> <p><b>2.4G:</b> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>																																				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Mouse																																					
Disk	<p><i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm</p> <p><i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"</p> <p><i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide</p> <p><i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>	Mechanical	<ul style="list-style-type: none"> <li>• Business black color; metal case, 11L</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>• Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1</li> <li>• *SSD bay only available on models with 2nd SSD installed</li> <li>• Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3</li> </ul>																																				
Optical	<p><i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive</p> <p><i>Some:</i> Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive</p>	Floor Stand	Optional system floor stand for vertical orientation																																				
Onboard SATA	SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support	Power supply	<p><b>180W:</b> 180 watts, autosensing, 100-240V (50-60Hz)</p> <p><b>240W:</b> 240 watts, autosensing, 100-240V (50-60Hz)</p> <p><b>240W ES:</b> 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)</p>																																				
Media reader	Optional 7-in-1 single slot media card reader	Limited warranty <sup>3</sup>	<p><i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available</p> <p><i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service<sup>9</sup>) / service upgrades available</p> <p><i>For Lenovo service upgrade options, please go to S-TC sheet</i></p>																																				
Graphics	<p><b>AMD Radeon™ Graphics</b> in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;</p> <p><i>Some:</i> <b>AMD Radeon HD 8570</b>, DirectX 11, one VGA, one HDMI, 40W;</p> <p><i>Some:</i> <b>NVIDIA® GeForce® GT 620</b>, DirectX 11, one VGA, one DisplayPort, 30W;</p> <p><i>Some:</i> <b>AMD Radeon™ HD 7450</b>, DirectX 11, one DVI-I one DisplayPort, 25W;</p> <p><i>Optional</i> DisplayPort to DVI-D monitor cable</p>	Preload	<p><i>Some:</i> Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</p> <p><i>Some:</i> Windows 7 Professional 32</p> <p><i>Some:</i> Windows 7 Professional 64</p> <p><i>Some:</i> Windows 8.1 64-bit</p> <p><i>Some:</i> Windows 8.1 Pro 64-bit</p>																																				
DP cable	Optional DisplayPort to DVI-D monitor cable	Environment	<p>ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);</p> <p>EPEAT™ Gold rating (Need 85% PSU and Windows OS);</p> <p>GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3</p>																																				
Chipset	<b>AMD A78 Chipset</b>	Accessories	For compatible accessories, please go to TC-AQP sheet																																				
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																						
Rear ports	Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports																																						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)																																						
IEEE 1394	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear																																						
Audio support	High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)																																						
WLAN <sup>13</sup>	<p><i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1</p> <p><i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2</p> <p><i>Some:</i> 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2</p>																																						
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																						
Ethernet	One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®																																						
Modem	None																																						

See footnotes for more detailed information

# ThinkCentre M79 SFF (10CW)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CW000BUS	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CW000CUS	A8 6500B	4Gx1	HD 8570D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	None	08/14
10CW000DUS	A8 6500B	8Gx1	GT 620	1TB 7200	DVD±RW	None	None	None	PS/2	None	None	None	None	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	None	08/14

• For detailed platform specifications, please see [ThinkCentre M79 SFF Platform Specifications sheet](#)

Processor	AMD A4, A6, A8, or A10 series APUs						<b>Manageability</b> Enhanced Manageability with DASH 1.1 <b>Security chip</b> Trusted Platform Module, TCG 1.2-compliant <b>Security features</b> <ul style="list-style-type: none"> <li>• Padlock loop (in rear for opt padlock)</li> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Cable lock to physically lock both keyboard and mouse (optional)</li> <li>• Power-on, Admin, Hard Disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional <i>Chassis intrusion switch</i></li> </ul>
	APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics	
	A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D	
	A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D	
	A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D	
	A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series	
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets						<b>Keyboard</b> <i>USB:</i> Preferred Pro USB Keyboard (USB connector), Lenovo logo <i>Finger:</i> Lenovo USB Fingerprint Keyboard (USB connector) <i>2.4G:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black <i>USB:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>2.4G:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5" <i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide						
Optical	<i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive <i>Some:</i> Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive						<b>Mechanical</b> <ul style="list-style-type: none"> <li>• Business black color; metal case, 11L</li> <li>• 13.2" W X 15.0" D X 3.9" H</li> <li>• 335mm W X 382mm D X 101mm H</li> <li>• 14.6 lb (6.6 kg) in maximum configuration</li> <li>Bay: 5.25" x1, 3.5"x1, SSD bay x1, MCR bay x1</li> <li>*SSD bay only available on models with 2nd SSD installed</li> <li>Slot (Low Profile): one PCIe 3.0 x16 (40w max), two PCIe 2.0 x1, one PCI 2.3</li> </ul>
Onboard SATA Media reader	SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support Optional 7-in-1 single slot media card reader						
Graphics	<b>AMD Radeon™ Graphics</b> in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays; <i>Some:</i> <b>AMD Radeon HD 8570</b> , DirectX 11, one VGA, one HDMI, 40W; <i>Some:</i> <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, one VGA, one DisplayPort, 30W; <i>Some:</i> <b>AMD Radeon™ HD 7450</b> , DirectX 11, one DVI-I one DisplayPort, 25W; Optional DisplayPort to DVI-D monitor cable						
DP cable	Optional DisplayPort to DVI-D monitor cable						<b>Floor Stand</b> Optional system floor stand for vertical orientation <b>Power supply</b> <i>180W:</i> 180 watts, autosensing, 100-240V (50-60Hz) <i>240W:</i> 240 watts, autosensing, 100-240V (50-60Hz) <i>240W ES:</i> 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)
Chipset	<b>AMD A78 Chipset</b>						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)						<b>Limited warranty<sup>3</sup></b> <i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service®) / service upgrades available For Lenovo service upgrade options, please go to <i>S-TC sheet</i>
Rear ports	Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)						
IEEE 1394	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear						
Audio support	High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)						<b>Preload</b> <i>Some:</i> Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 32 <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2						
Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						<b>Environment</b> ENERGY STAR® 6.0 (Need 85% PSU and Windows OS); EPEAT™ Gold rating (Need 85% PSU and Windows OS); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3 <b>Accessories</b> For compatible accessories, please go to TC-AQP sheet
Ethernet	One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®						
Modem	None						

See footnotes for more detailed information

# ThinkCentre M79 Tower (10CQ)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CQ0005US	A4 6300B	2Gx1	HD 8370D	250G 7200	DVD	None	None	None	PS/2	None	None	None	Switch	None	None	USB	280W ES	Win7 Pro32	3-onsite IWS	G	07/14
10CQ0006US	A6 7400B	2Gx1	Radeon R5	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	Switch	None	None	USB	280W ES	Win7 Pro32	3-onsite IWS	G	07/14
10CQ0007US	A8 7600B	4Gx1	HD 8570	1TB 7200	DVD±RW	None	Media	P	PS/2	None	None	None	Switch	None	None	USB	280W ES	Win7 Pro64	3-onsite IWS	G	07/14

• For detailed platform specifications, please see [ThinkCentre M79 Tower Platform Specifications sheet](#)

Processor	AMD A4, A6, A8, or A10 series APUs						Manageability Security chip Security features	Enhanced Manageability with DASH 1.1 Trusted Platform Module, TCG 1.2-compliant • Padlock loop (in rear for opt padlock) • Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock to physically lock both keyboard and mouse (optional) • Power-on, Admin, Hard Disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Optional <i>Chassis intrusion switch</i>
	APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics		
	A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D		
	A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D		
	A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D		
A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series	Keyboard Mouse Mechanical Power supply Limited warranty <sup>3</sup> Preload Environment Accessories	<ul style="list-style-type: none"> <li>USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo</li> <li>Finger: Lenovo USB Fingerprint Keyboard (USB connector)</li> <li>2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black</li> <li>USB: Enhanced Optical USB Mouse, black, Lenovo logo</li> <li>2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black</li> <li>• Business black color; metal case, 20L</li> <li>• 6.3" W X 16.6" D X 15.3" H (with handle)</li> <li>• 160mm W X 422mm D X 388mm H</li> <li>• 20.7 lb (9.4 kg) in maximum configuration</li> <li>Bay: 5.25" x1, 3.5" x2, MCR Bay x1</li> <li>Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3</li> <li>180W: 180 watts, autosensing, 100-240V (50-60Hz)</li> <li>280W: 280 watts, autosensing, 100-240V (50-60Hz)</li> <li>280W ES: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)</li> <li>Some: <b>3-years, limited onsite service</b> / service upgrades available</li> <li>Some: <b>3-years, limited onsite service, IWS</b> (International Warranty Service<sup>9</sup>) / service upgrades available</li> <li>For Lenovo service upgrade options, please go to <i>S-TC sheet</i></li> <li>Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</li> <li>Some: Windows 7 Professional 32</li> <li>Some: Windows 7 Professional 64</li> <li>Some: Windows 8.1 64-bit</li> <li>Some: Windows 8.1 Pro 64-bit</li> <li>ENERGY STAR® 6.0 (Need 85% PSU and Windows OS);</li> <li>EPEAT™ Gold rating (Need 85% PSU and Windows OS);</li> <li>GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3</li> <li>For compatible accessories, please go to TC-AQP sheet</li> </ul>	
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets							
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5" Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide Some: DVD-ROM SATA 1.5Gb/s Drive							
Optical	Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive							
Onboard SATA Media reader	SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support Optional 7-in-1 single slot media card reader							
Graphics	AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays; Some: AMD Radeon HD 8570, DirectX 11, one VGA, one HDMI, 40W; Some: NVIDIA® GeForce® GT 620, DirectX 11, one VGA, one DisplayPort, 30W; Some: AMD Radeon™ HD 7450, DirectX 11, one DVI-I one DisplayPort, 25W; Optional DisplayPort to DVI-D monitor cable							
DP cable	Optional DisplayPort to DVI-D monitor cable							
Chipset	AMD A78 FCH							
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)							
Rear ports	Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports							
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)							
IEEE 1394	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear							
Audio support	High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)							
WLAN <sup>13</sup>	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2							
Bluetooth™	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
Ethernet	One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®							
Modem	None							

See footnotes for more detailed information

# ThinkCentre M79 Tower (10CS)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Graphics	Storage	Optical	WLAN	Media reader	2nd Serial / Parallel	PS/2 Ports	2nd DP Port	Optional 2 rear USB	IEEE 1394	Chassis intrusion switch	Cable lock	Floor Stand	Key-board/ Mouse	Power Supply	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10CS0003US	A4 6300B	4Gx1	HD 8370D	500G 7200	DVD±RW	None	None	None	PS/2	None	None	None	Switch	None	None	USB	180W	Win7 P64 DG Win8.1	3-onsite	None	08/14

• For detailed platform specifications, please see [ThinkCentre M79 Tower Platform Specifications sheet](#)

Processor	AMD A4, A6, A8, or A10 series APUs						Manageability Security chip Security features	Enhanced Manageability with DASH 1.1 Trusted Platform Module, TCG 1.2-compliant • Padlock loop (in rear for opt padlock) • Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock to physically lock both keyboard and mouse (optional) • Power-on, Admin, Hard Disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement • Optional <i>Chassis intrusion switch</i>
	APU	Cores	Frequency (Max/Base)	L2 Cache	Memory Types	Integrated Graphics		
	A4-6300B	2	3.9 / 3.7	1MB	DDR3-1600	HD 8370D		
	A6-6400B	2	4.1 / 3.9	1MB	DDR3-1866	HD 8470D		
	A8-6500B	4	4.1 / 3.5	4MB	DDR3-1866	HD 8570D		
	A6 PRO-7400B	2	3.9 / 3.5	1MB	DDR3-1866	Radeon R5 Series		
A8 PRO-7600B	4	3.8 / 3.1	4MB	DDR3-2133	Radeon R7 Series			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets						Keyboard	<i>USB:</i> Preferred Pro USB Keyboard (USB connector), Lenovo logo <i>Finger:</i> Lenovo USB Fingerprint Keyboard (USB connector)
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5" <i>Some:</i> 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide						Mouse	<i>USB:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>2.4G:</i> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black
Optical	<i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive <i>Some:</i> Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive						Mechanical	• Business black color; metal case, 20L • 6.3" W X 16.6" D X 15.3" H (with handle) • 160mm W X 422mm D X 388mm H • 20.7 lb (9.4 kg) in maximum configuration Bay: 5.25" x1, 3.5" x2, MCR Bay x1 Slot (half-length): one PCIe 3.0 x16 (60w max), two PCIe 2.0 x1, one PCI 2.3
Onboard SATA	SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support						Power supply	<i>180W:</i> 180 watts, autosensing, 100-240V (50-60Hz) <i>280W:</i> 280 watts, autosensing, 100-240V (50-60Hz) <i>280W ES:</i> 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)
Media reader	Optional 7-in-1 single slot media card reader						Limited warranty <sup>3</sup>	<i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>
Graphics	<b>AMD Radeon™ Graphics</b> in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays; <i>Some:</i> <b>AMD Radeon HD 8570</b> , DirectX 11, one VGA, one HDMI, 40W; <i>Some:</i> <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, one VGA, one DisplayPort, 30W; <i>Some:</i> <b>AMD Radeon™ HD 7450</b> , DirectX 11, one DVI-I one DisplayPort, 25W; <i>Optional</i> DisplayPort to DVI-D monitor cable						Preload	<i>Some:</i> Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 32 <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit
DP cable	Optional DisplayPort to DVI-D monitor cable						Environment	ENERGY STAR® 6.0 (Need 85% PSU and Windows OS); EPEAT™ Gold rating (Need 85% PSU and Windows OS); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3
Chipset	<b>AMD A78 FCH</b>						Accessories	For compatible accessories, please go to TC-AQP sheet
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)							
Rear ports	Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports							
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)							
IEEE 1394	Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear							
Audio support	High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)							
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2							
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter							
Ethernet	One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®							
Modem	None							

See footnotes for more detailed information



ThinkCentre M83 Tiny with optional floor stand, wireless keyboard/mouse, and monitor



ThinkCentre M83 Tiny with optional floor stand



ThinkCentre M83 Tiny with optional VESA mount kit



ThinkCentre M83 Tiny with optional optical box



ThinkCentre M83 Tiny with optional I/O box



ThinkCentre M83 Tiny

# ThinkCentre M83 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor						Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo logo <i>Some:</i> Lenovo USB Fingerprint Keyboard (USB connector) <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black <i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black	
	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Mouse		
	Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400	Mechanical	Tiny (1L), business black color; metal case	
	Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400		M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration
	Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600		M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600				
Memory	16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller						VESA mount Floor Stand	Optional VESA mount bracket kit, supports VESA 75mm and 100mm Optional system floor stand for vertical orientation	
Disk	<i>Some:</i> hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™ <i>Some:</i> 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / 2.5" Wide						Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)	
Optical	<i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB						Limited warranty <sup>3</sup>	<i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>	
Onboard SATA Media reader	SATA 6.0Gb/s controller, one connector on planar None						Preload	<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 32/64 <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>PC Device Stage</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Lenovo SHAREit</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote®</li> <li>Nitro Pro</li> </ul>	
Graphics	Intel HD Graphics or Intel HD Graphics 4400/4600, in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI) @60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)							<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <b>Web install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Password Manager</li> <li>Preloaded applications</li> <li>ThinkVantage System Update</li> <li>Desktop Power Manager</li> <li>Lenovo Solution Center</li> <li>PC Device Stage</li> <li>Lenovo Companion</li> <li>Lenovo SHAREit</li> <li>Lenovo Reach</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote®</li> <li>Nitro Pro</li> <li>Norton™ Studio</li> <li>Pokki</li> </ul>	
DP cable	Optional DisplayPort to DVI-D monitor cable								
Chipset	Intel Q85 Chipset								
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)								
Rear ports	Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)								
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port								
Audio support	High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)								
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 <i>Some:</i> 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2 <i>Some:</i> 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo 4.0 adapter, 2x2								
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®								
Modem	None								
Manageability	Intel Standard Manageability Trusted Platform Module, TCG 1.2-compliant						Environment	ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.); GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible	
Security chip							Accessories	For compatible accessories, please go to TC-AQP sheet	
Security features	<ul style="list-style-type: none"> <li>Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>Smart USB protection, allows keyboard/mouse only, blocks all storage devices</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Optional Chassis intrusion switch</li> </ul>								

See footnotes for more detailed information

# ThinkCentre M83 Tiny (10E9) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Storage	External optical / I/O box	WLAN	DP Cable	Optional port	Chassis intrusion switch	Floor Stand	VESA mount	Keyboard/ Mouse	Internal Speaker	Kensington cable lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E9000NUS	i3-4130T	Intel HD 4400	4GBx1	500GB 7200	None	7260 b/g/n	None	USB	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000PUS	i3-4130T	Intel HD 4400	4GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000QUS	i3-4130T	Intel HD 4400	4GBx1	256GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000RUS	i3-4130T	Intel HD 4400	8GBx1	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000SUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	None	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000TUS	i5-4590T	Intel HD 4600	8GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000UUS	i5-4590T	Intel HD 4600	4GBx1	256GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000VUS	i7-4785T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000WUS	i7-4785T	Intel HD 4600	8GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000XUS	i7-4785T	Intel HD 4600	8GBx1	256GB SSD	None	7260 b/g/n	None	USB	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E9000YUS	i7-4785T	Intel HD 4600	4GBx1	256GB SSD	None	7260 b/g/n	None	USB	None	Stand	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E90010US	i7-4785T	Intel HD 4600	4GBx1	180GB SSD	None	7260 b/g/n	None	2nd DP	None	Stand	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14

• For detailed platform specifications, please see [ThinkCentre M83 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor	Manageability Security chip	Intel Standard Manageability Trusted Platform Module, TCG 1.2-compliant																														
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Max/Base)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Core i3-4130T</td> <td>2 / 4</td> <td>2.90 GHz</td> <td>3MB</td> <td>DDR3-1600</td> <td>Intel HD 4400</td> </tr> <tr> <td>Core i3-4150T</td> <td>2 / 4</td> <td>3.00 GHz</td> <td>3MB</td> <td>DDR3-1600</td> <td>Intel HD 4400</td> </tr> <tr> <td>Core i5-4590T</td> <td>4 / 4</td> <td>2.00 / 3.00 GHz</td> <td>6MB</td> <td>DDR3-1600</td> <td>Intel HD 4600</td> </tr> <tr> <td>Core i7-4785T</td> <td>4 / 8</td> <td>2.20 / 3.20 GHz</td> <td>8MB</td> <td>DDR3-1600</td> <td>Intel HD 4600</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400	Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400	Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600	Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600	Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional <i>Chassis intrusion switch</i></li> </ul>
Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics																												
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Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600																												
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600																												
Memory	16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Keyboard	<b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo <b>Finger:</b> Lenovo USB Fingerprint Keyboard (USB connector) <b>2.4G:</b> Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black																														
Disk	<i>Some:</i> hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™ <i>Some:</i> 500GB (5400 rpm) SSHD / with 8GB flash memory, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / 2.5" Wide	Mouse	<b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo <b>2.4G:</b> Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black																														
Optical	<i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Mechanical	Tiny (1L), business black color; metal case																														
Onboard SATA Media reader	SATA 6.0Gb/s controller, one connector on planar None		<table border="1"> <tbody> <tr> <td>M83 Tiny only</td> <td>7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration</td> </tr> <tr> <td>M83 Tiny with VESA mount &amp; optical box</td> <td>7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration</td> </tr> </tbody> </table>	M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration	M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration																										
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Graphics	Intel HD Graphics or Intel HD Graphics 4400/4600, in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1080 (HDMI) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)	VESA mount Floor Stand	Optional VESA mount bracket kit, supports VESA 75mm and 100mm Optional system floor stand for vertical orientation																														
DP cable	Optional DisplayPort to DVI-D monitor cable	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																														
Chipset	Intel Q85 Chipset	Limited warranty <sup>3</sup>	<i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available For Lenovo service upgrade options, please go to <i>S-TC sheet</i>																														
Front ports Rear ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm) Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)	Preload	<i>Some:</i> Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit																														
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	Environment	ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.) GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible																														
Audio support	High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)	Accessories	For compatible accessories, please go to TC-AQP sheet																														
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11ac/b/g/n, Broadcom BCM4352, dual band, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo, 2x2																																
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®																																
Modem	None																																

See footnotes for more detailed information

# ThinkCentre M83 Tiny (10E8)

Product Specifications Reference (PSREF)

Type-model	Processor	Graphics	Memory	Storage	External optical / I/O box	WLAN	DP Cable	Optional port	Chassis intrusion switch	Floor Stand	VESA mount	Keyboard/ Mouse	Internal Speaker	Kensington cable lock	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E80017US	i3-4150T	Intel HD 4400	4GBx1	500GB 7200	None	7260 b/g/n	None	None	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E80018US	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E80019US	i5-4590T	Intel HD 4600	8GBx1	256GB SSD	None	7260 b/g/n	None	2nd DP	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E8001AUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	Serial	None	None	Mount	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E8001BUS	i7-4785T	Intel HD 4600	8GBx1	500GB 7200	None	7260 b/g/n	None	2nd DP	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E8001CUS	i7-4785T	Intel HD 4600	8GBx1	256GB SSD	None	7260 b/g/n	None	USB	None	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite	No	10/14
10E8000HUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	7260 b/g/n	None	None	Switch	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite IWS	Yes	10/14
10E8000JUS	i5-4590T	Intel HD 4600	4GBx1	500GB 5400	None	7260 b/g/n	None	None	Switch	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite IWS	Yes	10/14
10E8000KUS	i5-4590T	Intel HD 4600	4GBx1	500GB 7200	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite IWS	Yes	10/14
10E8000LUS	i5-4590T	Intel HD 4600	4GBx1	500GB 5400	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 P64 DG Win8.1	3-onsite IWS	Yes	10/14
10E8000MUS	i3-4130T	Intel HD 4400	2GBx1	500GB 7200	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 Pro64	3-onsite IWS	Yes	10/14
10E8000NUS	i3-4130T	Intel HD 4400	2GBx1	500GB 5400	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 Pro64	3-onsite IWS	Yes	10/14
10E8001DUS	i3-4150T	Intel HD 4400	2GBx1	500GB 5400	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 Pro64	3-onsite IWS	Yes	11/14
10E8001EUS	i3-4150T	Intel HD 4400	2GBx1	500GB 7200	None	8723BE	None	None	Switch	None	None	USB	Speaker	None	Win7 Pro64	3-onsite IWS	Yes	11/14

• For detailed platform specifications, please see [ThinkCentre M83 Tiny Platform Specifications sheet](#)

Processor	Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor	Manageability Security chip	Intel Standard Manageability Trusted Platform Module, TCG 1.2-compliant																														
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Max/Base)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Core i3-4130T</td> <td>2 / 4</td> <td>2.90 GHz</td> <td>3MB</td> <td>DDR3-1600</td> <td>Intel HD 4400</td> </tr> <tr> <td>Core i3-4150T</td> <td>2 / 4</td> <td>3.00 GHz</td> <td>3MB</td> <td>DDR3-1600</td> <td>Intel HD 4400</td> </tr> <tr> <td>Core i5-4590T</td> <td>4 / 4</td> <td>2.00 / 3.00 GHz</td> <td>6MB</td> <td>DDR3-1600</td> <td>Intel HD 4600</td> </tr> <tr> <td>Core i7-4785T</td> <td>4 / 8</td> <td>2.20 / 3.20 GHz</td> <td>8MB</td> <td>DDR3-1600</td> <td>Intel HD 4600</td> </tr> </tbody> </table>	Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics	Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400	Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400	Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600	Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600	Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for optional Kensington® MicroSaver® cable)</li> <li>• Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Optional <i>Chassis intrusion switch</i></li> </ul>
Processor	Cores / Threads	Frequency (Max/Base)	Cache	Memory Types	Integrated Graphics																												
Core i3-4130T	2 / 4	2.90 GHz	3MB	DDR3-1600	Intel HD 4400																												
Core i3-4150T	2 / 4	3.00 GHz	3MB	DDR3-1600	Intel HD 4400																												
Core i5-4590T	4 / 4	2.00 / 3.00 GHz	6MB	DDR3-1600	Intel HD 4600																												
Core i7-4785T	4 / 8	2.20 / 3.20 GHz	8MB	DDR3-1600	Intel HD 4600																												
Memory	16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Keyboard	<b>USB:</b> Preferred Pro USB Keyboard (USB connector), Lenovo logo <b>Finger:</b> Lenovo USB Fingerprint Keyboard (USB connector) <b>2.4G:</b> UltraSlim Plus Wireless Keyboard (2.4GHz via USB receiver), black <b>2.4G:</b> UltraSlim Plus Wireless Mouse (2.4GHz via USB receiver), black																														
Disk	<i>Some:</i> hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™ <i>Some:</i> 500GB (5400 rpm) SSHD / with 8GB flash memory, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / 2.5" Wide	Mouse	<b>USB:</b> Enhanced Optical USB Mouse, black, Lenovo logo <b>2.4G:</b> UltraSlim Plus Wireless Mouse (2.4GHz via USB receiver), black																														
Optical	<i>Some:</i> external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB <i>Some:</i> external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB	Mechanical	Tiny (1L), business black color; metal case																														
Onboard SATA Media reader	SATA 6.0Gb/s controller, one connector on planar None		<table border="1"> <tbody> <tr> <td>M83 Tiny only</td> <td>7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration</td> </tr> <tr> <td>M83 Tiny with VESA mount &amp; optical box</td> <td>7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration</td> </tr> </tbody> </table>	M83 Tiny only	7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration	M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration																										
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M83 Tiny with VESA mount & optical box	7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration																																
Graphics	Intel HD Graphics or Intel HD Graphics 4400/4600, in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on some models, supports up to 3 independent displays; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)	VESA mount Floor Stand	Optional VESA mount bracket kit, supports VESA 75mm and 100mm Optional system floor stand for vertical orientation																														
DP cable	Optional DisplayPort to DVI-D monitor cable	Power supply	65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)																														
Chipset	Intel Q85 Chipset	Limited warranty <sup>3</sup>	<i>Some:</i> <b>3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>3-years, limited onsite service, IWS</b> (International Warranty Service <sup>9</sup> ) / service upgrades available <i>For Lenovo service upgrade options, please go to S-TC sheet</i>																														
Front ports Rear ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm) Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)	Preload	<i>Some:</i> Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit																														
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port	Environment	ENERGY STAR® 6.0; EPEAT™ Gold rating (U.S.) GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible																														
Audio support	High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)	Accessories	For compatible accessories, please go to TC-AQP sheet																														
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 <i>Some:</i> 11b/g/n, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11ac/b/g/n, Broadcom BCM4352, dual band, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2 <i>Some:</i> 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo, 2x2																																
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®																																
Modem	None																																

See footnotes for more detailed information

# ThinkCentre M83 Small Pro, Mini Tower



Lenovo ThinkCentre M83 Mini Tower with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M83 Mini Tower with optional WLAN and graphic card



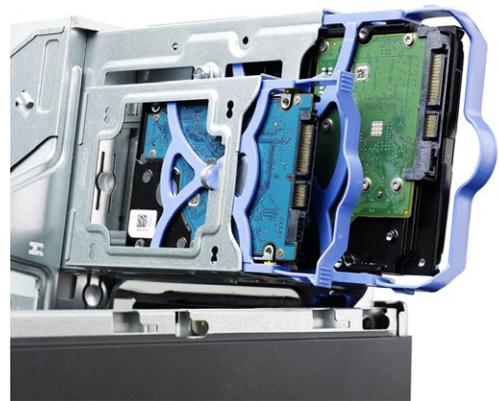
Lenovo ThinkCentre M83 Small Pro with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M83 Small Pro with optional dual graphic cards  
\* Cable lock only available on some special bid models



Lenovo ThinkCentre M83 Small Pro (inside view)

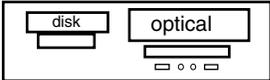


Optional 2.5" bay on Lenovo ThinkCentre M83 Small Pro  
\* Come with optional 2.5" 2nd HDD

# ThinkCentre M83 SFF Pro (10AM) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>a</sup>	SATA disk GB rpm	2nd disk	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AM0002US	3x4	i5-4670	4GBx1	1TB 7200		None		HD 4600	USB	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0003US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AM0004US	3x4	i7-4770	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0005US	3x4	i5-4570	8GBx1	1TB 7200		Intel 105		GT 620	USB	Serial	Parallel	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0006US	3x4	i7-4770	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM0007US	3x4	i5-4570	4GBx1	500G 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AM000AUS	3x4	i7-4770	4GBx1	1TB 7200		None		HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000BUS	3x4	i5-4570	4GBx1	128G SSD	1TB	None	Media	HD 4600	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM0009US	3x4	i3-4130	4GBx1	500G 7200		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13
10AM000CUS	3x4	i3-4130	4GBx1	500G Hybrid		None		HD 4400	None	None	None	None	Stand	None	Win7 Pro64 (DG)	08/20/13

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit				
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>				
Graphics	<b>Intel HD Graphics 4400 or 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>NVIDIA® Geforce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>				
DP dongle	None															
Disk	Some: SATA 6.0Gb/s, 7200 rpm, 3.5" wide Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide															
2nd disk	Some: SATA 6.0Gb/s, 7200 rpm, 3.5" wide															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset															
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port	None															
Media reader	Some: 29-in-1 media reader, internal USB 2.0															
Chipset	<b>Intel Q85 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1															
Bluetooth	None															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Manageability	Intel Standard Manageability															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Floor Stand	Optional system floor stand for vertical orientation															
Power supply	240 watts, autosensing															
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>															
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader															
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

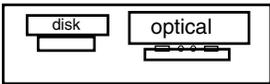
See footnotes for important warranty information  
 US model(s) announced July 30, 2013 or August 20, 2013

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 (MSK1S-3) September 2013

# ThinkCentre M83 SFF Pro (10AM) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>6</sup>	SATA disk	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AM000JUS	3x4	i3-4130	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000KUS	3x4	i5-4570	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000LUS	3x4	i7-4770	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000MUS	3x4	i7-4770	8GBx1	1TB Hybrid	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000NUS	3x4	G3220	4GBx1	500G 3.5"	2.5" bay	None	None	HD 7450	USB	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/04/14
10AM000PUS	3x4	i3-4130	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4400	None	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AM000QUS	3x4	i5-4570	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AM000RUS	3x4	i5-4670	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AM000SUS	3x4	i7-4770	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	None	None	Win7 P64 DG	Win8.1 02/25/14
10AM000TUS	3x4	i3-4130	4GBx1	500G 3.5"	2.5" bay	None	None	HD 4400	None	None	None	None	Stand	None	Win7 P64 DG	Win8.1 04/01/14

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket												<b>Preloaded operating system</b>  Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit  <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
Implementation Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets															
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Max resolution: 2560x1600 (DP)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;</i> <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>															
DP dongle	None															
Disk	<i>Some: SATA 6.0Gb/s, 7200 rpm, 2.5" wide</i> <i>Some: SATA 6.0Gb/s, 7200 rpm, 3.5" wide</i> <i>Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide</i>															
Optical SATA controller Onboard SATA	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port Media reader	None															
Chipset	<b>Intel Q85 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	None															
Bluetooth	None															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Manageability	Intel Standard Manageability															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Floor Stand	Optional system floor stand for vertical orientation															
Power supply	240 watts, autosensing															
Machine	<ul style="list-style-type: none"> <li>SFF Pro (12.9L), business black color; metal case</li> <li>(WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>17.20 lb (7.8 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk and optical drive removal</li> </ul>															
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader															
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)															
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available															

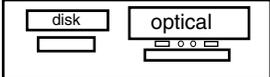
See footnotes for important warranty information  
US model(s) announced February 04, February 25, or April 1, 2014

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(MSK1S-5) April 2014

# ThinkCentre M83 SFF Pro (10AM) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x Pro-bay	Processor	Memory <sup>8</sup>	SATA disk	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AM000VUS	3x4	i5-4590	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/10/15
10AM000YUS	3x4	i5-4690	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/10/15
10AM000UUS	3x4	i7-4790	4GBx1	1TB 3.5"	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/10/15
10AM000WUS	3x4	i3-4150	4GBx1	500G 2.5"	2.5" bay	None	None	HD 4400	None	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/10/15
10AM000XUS	3x4	i5-4590	4GBx1	180G SSD opal	2.5" bay	None	None	HD 4600	None	None	None	None	Stand	None	Win7 P64 DG	Win8.1 02/10/15

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4690 Processor (4 cores / 4 threads, 3.5GHz, 6MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache),</b> Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit  <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>				
Implementation	Processor in LGA1150 socket											<b>Preloaded applications (only some listed)</b>				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>				
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Max resolution: 2560x1600 (DP)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>															
DP dongle	None															
Disk	Some: SATA 6.0Gb/s, 7200 rpm, 2.5" wide Some: SATA 6.0Gb/s, 7200 rpm, 3.5" wide Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset															
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port	None															
Media reader	None															
Chipset	<b>Intel Q85 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	None															
Bluetooth	None															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Manageability	Intel Standard Manageability															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Floor Stand	Optional system floor stand for vertical orientation															
Power supply	240 watts, autosensing															
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>															
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)											Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

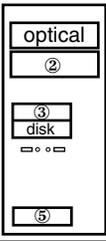
See footnotes for important warranty information

# ThinkCentre M83 Mini Tower (10AL) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AL0008US	3x5	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL0009US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000AUS	3x5	i7-4770	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000BUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	USB	None	None	None	None	Win7 Pro64 (DG)	07/30/13
10AL000CUS	3x5	i5-4670	4GBx2	1TB 7200	DVD±RW	None	None	HD 4600	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000DUS	3x5	i5-4670	4GBx1	500GB 7200	DVD±RW	None	None	HD 8470	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000EUS	3x5	i7-4770	4GBx2	1TB 7200	DVD±RW	None	None	GT 620	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000FUS	3x5	i7-4770	4GBx2	500GB 7200	DVD±RW	None	None	HD 8570	USB	Serial	Parallel	None	None	Win7 Pro64 (DG)	07/30/13
10AL000GUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 Pro64 (DG)	08/20/13

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>	
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  <b>Ready to install applications</b> (only some listed)	
Implementation	Processor in LGA1150 socket											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>	
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications</b> (only some listed)	
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon™ HD 8470</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>	
DP dongle	None												
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide												
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive												
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset												
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)												
eSATA port	None												
Media reader	None												
Chipset	<b>Intel Q85 Express Chipset</b>												
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)												
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models												
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)												
PCIe WLAN	None												
Bluetooth	None												
Audio	High Definition (HD) Audio, Realtek® ALC662 codec												
Speaker	Internal speaker for business audio (1.5 watt)												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®												
Manageability	Intel Standard Manageability												
Modem	None												
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											Supports ThinkVantage Technologies	
Power supply	280 watts, autosensing											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet	
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>												
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk												
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)												
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available												

See footnotes for important warranty information  
 US model(s) announced July 30, 2013 or August 20, 2013

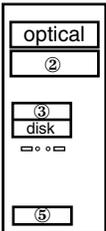
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 (MSK1T-4) August 2013

# ThinkCentre M83 Mini Tower (10AL) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>3</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AL000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000RUS	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000SUS	3x5	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000TUS	3x5	i7-4770	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 7450	USB	None	None	None	None	Win7 P64 DG Win8.1	02/04/14
10AL000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14
10AL000VUS	3x5	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG Win8.1	02/25/14

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<b>Mainstream enterprise stability and manageability</b>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket														
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets														
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz											<b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>			
DP dongle	None														
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1.5 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing														
Machine	<ul style="list-style-type: none"> <li>• Mini Tower (25L), business black color, metal case</li> <li>• (WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>• 24.69 lb (11.20 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information

US model(s) announced February 4, 2014 or February 25, 2014

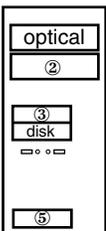
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(MSK1T-6) February 2014

# ThinkCentre M83 Mini Tower (10AL) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>3</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	ENERGY STAR 6.0	Preload	Ann date (mm/yy)
10AL0014US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0017US	3x5	G3240	4GBx1	500GB 7200	DVD±RW	None	None	Intel HD	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL000XUS	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0013US	3x5	i7-4790	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL000YUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0016US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0012US	3x5	i7-4790	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0010US	3x5	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0015US	3x5	i3-4150	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14
10AL0011US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	None	Win7 P64 DG	Win8.1 10/14

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Pentium® G3240 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache),</b> Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller											Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None														
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1.5 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected mode(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing														
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

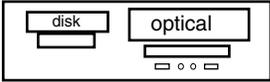
See footnotes for important warranty information

# ThinkCentre M83 SFF Pro (10AN)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Preload	Ann date (mm/dd/yy)
10AN0006US	3x4	i5-4570	4GBx1	500G 7200 DVD±RW	None	None	Reader	HD 8470	None	None	None	None	Stand	None	Win7 Pro64 (DG)	07/30/13
10AN000GUS	3x4	i5-4570	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000HUS	3x4	i7-4770	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000JUS	3x4	i7-4770	8GBx1	1TB 7200 DVD±RW	None	None	None	HD 4600	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000KUS	3x4	i5-4570	8GBx1	1TB 7200 DVD±RW	None	None	None	HD 8570	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	08/27/13
10AN000XUS	3x4	i3-4130	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4400	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	10/22/13
10AN000YUS	3x4	i3-4130	8GBx1	1TB Hybrid DVD±RW	None	None	None	HD 8570	USB	None	None	None	Stand	None	Win7 Pro64 (DG)	10/22/13

•3-year limited warranty

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<b>Preloaded operating system</b> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager <b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • Desktop Power Manager • View Management Utility • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Microsoft Office preloaded; purchase a product key to activate • Cyberlink PowerDVD (DVD±RW, DVD) • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Evernote • Intel AppUp • Intel Small Business Advantage • Nitro Pro				
Implementation																
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets															
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: AMD Radeon HD 8570, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i>															
DP dongle	None															
Disk	<i>Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide</i> <i>Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide</i>															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset															
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port	None															
Media reader	<i>Some: 29-in-1 media reader, internal USB 2.0</i>															
Chipset	<b>Intel Q85 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	None															
Bluetooth	None															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Manageability	Intel Standard Manageability															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Floor Stand	Optional system floor stand for vertical orientation															
Power supply	240 watts, autosenesing															
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>															
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader															
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)															
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											<b>Security</b> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s) <b>ULE Gold</b> Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

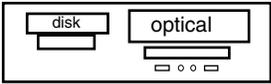
See footnotes for important warranty information

US model(s) announced July 30, 2013, August 27, 2013, or October 22, 2013

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(MSK1S-4) October 2013

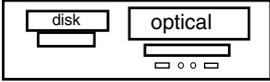
Type-model	Slot x Pro-processor	Memory <sup>6</sup>	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial intrusion port	Chassis switch	Floor stand	Internal Speaker	ENERGY STAR 6.0	Preload	Ann date (mm/yy)
10AH000JUS	3x4 i5-4570	4GBx1	1TB 7200 DVD			Intel 105	None	HD 8470	USB	None	Switch	Stand	Speaker	ES6.0	Win7 Pro64	07/13
10AH0042US	3x4 i5-4570	4GBx1	500G 7200 DVD±RW	2.5" bay	None	None	None	HD 7450	USB	None	None	Stand	Speaker	ES6.0	Win7 P64 DG Win8.1	02/14
10AH006HUS	3x4 i5-4590	4GBx1	500G 7200 DVD±RW	2.5" bay	7260 b/g/n	None	None	HD 8570	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006JUS	3x4 i7-4790	8GBx1	1TB 7200 DVD±RW	2.5" bay	7260 b/g/n	None	None	HD 4600	None	None	None	None	None	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006KUS	3x4 i7-4790	8GBx1	1TB 7200 DVD±RW	2.5" bay	7260 ac	None	None	GT 620	None	None	None	None	None	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006BUS	3x4 i3-4150	4GBx1	500G 7200 DVD±RW	2.5" bay	None	None	None	HD 4400	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006DUS	3x4 i3-4150	8GBx1	256G SSD DVD±RW	2.5" bay	7260 b/g/n	None	None	HD 4400	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006FUS	3x4 i5-4590	8GBx1	256G SSD DVD±RW	2.5" bay	7260 b/g/n	None	None	HD 4600	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006EUS	3x4 i5-4590	4GBx1	500G 7200 DVD±RW	2.5" bay	None	None	None	HD 4600	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006CUS	3x4 i3-4150	4GBx1	1TB 7200 DVD±RW	2.5" bay	7260 b/g/n	None	None	HD 4400	None	None	None	None	Speaker	ES6.0	Win7 P64 DG Win8.1	10/14
10AH006GUS	3x4 i7-4790	4GBx1	500G 7200 DVD±RW	2.5" bay	7260 b/g/n	None	None	HD 4600	None	None	None	None	None	ES6.0	Win7 P64 DG Win8.1	10/14

Positioning Processor	<i>Mainstream enterprise stability and manageability</i> <b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller,</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in LGA1150 socket	<b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	<b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • Desktop Power Manager • View Management Utility • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Microsoft Office preloaded; purchase a product key to activate • Cyberlink PowerDVD (DVD±RW, DVD) • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Evernote • Intel AppUp • Intel Small Business Advantage • Nitro Pro
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Max resolution:</i> 2560x1600 (DP)@60Hz;1920x1200 (VGA)@60Hz (Reduced Blanking) <i>Some:</i> <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution:</i> 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz <i>Some:</i> <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz	
DP dongle	None	
Disk	<i>Some:</i> SATA 6.0Gb/s 7200 rpm, 3.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide	
Optical	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel Q85 Express Chipset</b>	
Front ports	Two USB 3.0, two optional USB 2.0, mic (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
PCle WLAN	<i>Some:</i> 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2 <i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Optional internal speaker for business audio (1 watt)	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Manageability	Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	<b>Security</b> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement • Chassis intrusion switch on selected model(s)
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	Optional system floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	
Machine	• SFF Pro (12.9L), business black color; metal case • (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm • 17.20 lb (7.8 kg) in maximum configuration • Toolless cover removal, adapter retention • Toolless disk and optical drive removal	
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader	
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)	<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

# ThinkCentre M83 SFF Pro (10AH) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-cessor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AH0015US	3x4	i5-4570	2GBx1	500G 3.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	07/30/13
10AH0016US	3x4	i5-4570	4GBx1	500G 3.5"	DVD	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	07/30/13
10AH0017US	3x4	i5-4570	4GBx1	1TB 3.5"	DVD	Intel 105	HD 8470	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	07/30/13
10AH001HUS	3x4	i5-4570	4GBx1	500G 3.5"	DVD±RW	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	08/20/13
10AH001JUS	3x4	i5-4570	4GBx1	1TB 3.5"	DVD±RW	Intel 105	HD 8470	USB	None	Switch	Stand	ES6.0	G P	Win7 Pro64 (DG)	08/20/13
10AH0043US	3x4	i5-4570	2GBx1	500G 2.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	03/11/14
10AH0054US	3x4	i5-4590	2GBx1	500G 2.5"	DVD	None	HD 4600	None	None	Switch	None	ES6.0	G P	Win7 Pro64	06/10/14
10AH005XUS	3x4	i5-4590	4GBx1	500G 3.5"	DVD±RW	None	HD 4600	USB	None	Switch	Stand	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14
10AH005YUS	3x4	i5-4590	4GBx1	1TB 3.5"	DVD±RW	8723BE	GT 620	None	None	Switch	Stand	ES6.0	G P	Win7 P64 DG Win8.1	07/08/14

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket														
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets														
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>			
DP dongle	None														
Disk	<i>Some:</i> SATA 6.0Gb/s 7200 rpm, 2.5" wide <i>Some:</i> SATA 6.0Gb/s 7200 rpm, 3.5" wide														
Optical	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q85 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1 <i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter														
Bluetooth	High Definition (HD) Audio, Realtek® ALC662 codec														
Audio	Internal speaker for business audio (1 watt)														
Speaker	None														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	Optional system floor stand for vertical orientation														
Power supply	240 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader														
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)														
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

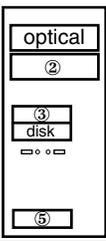
See footnotes for important warranty information

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# ThinkCentre M83 Mini Tower (10AK)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Additional Front Graphics	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AK0004US	3x5	i5-4570	8GBx1	500GB 7200	DVD±RW	None	None	GT 620	USB	None	None	None	Win7 P64 DG	07/30/13
10AK0005US	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	07/30/13
10AK0006US	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	GT 620	USB	None	None	None	Win7 P64 DG	07/30/13
10AK0007US	3x5	i7-4770	8GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	07/30/13
10AK000LUS	3x5	i3-4130	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	USB	None	None	None	Win7 P64 DG	10/22/13
10AK000MUS	3x5	i3-4130	8GBx1	1TB Hybrid	DVD±RW	None	None	HD 8570	USB	None	None	None	Win7 P64 DG	10/22/13
10AK000QUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	Win7 P64 DG	02/04/14

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, Processor in LGA1150 socket											Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
Implementation	Processor in LGA1150 socket											<b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets													
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>		
DP dongle	None													
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide											<b>ULE Gold</b> Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset											<b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)													
eSATA port	None											ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
Media reader	None													
Chipset	<b>Intel Q85 Express Chipset</b>											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
PCIe WLAN	None											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Manageability	Intel Standard Manageability											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Power supply	280 watts, autosensing													
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
 US model(s) announced July 30, 2013, October 22, 2013, or February 4, 2014

# ThinkCentre M83 Mini Tower (10AK) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Additional Front Graphics	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AK0012US	3x5	i3-4150	4GBx1	500GB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0013US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0015US	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0016US	3x5	i5-4590	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0019US	3x5	i7-4790	8GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0017US	3x5	i5-4590	4GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14
10AK0018US	3x5	i7-4790	4GBx1	500GB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	Win7 P64 DG	Win8.1 10/14/14

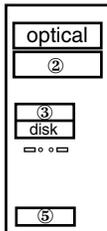
Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, Processor in LGA1150 socket										Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None													
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q85 Express Chipset</b>													
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing													
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)													
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information

# ThinkCentre M83 Mini Tower (10AG) - ES 6.0

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10AG0012US	3x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	ES6.0	None	Win7 P64 DG Win8.1 02/04/14
10AG001NUS	3x5	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG002BUS	3x5	i5-4590	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG002AUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0029US	3x5	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0026US	3x5	i7-4790	8GBx1	256G SSD	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0025US	3x5	i7-4790	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0028US	3x5	i3-4150	4GBx1	1TB 7200	DVD±RW	None	None	HD 4400	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0027US	3x5	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14
10AG0024US	3x5	i7-4790	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	ES6.0	None	Win7 P64 DG Win8.1 10/14/14

Positioning	<i>Mainstream enterprise stability and manageability</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache),</b> Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit  <b>Ready to install applications (only some listed)</b>		
Implementation	Processor in LGA1150 socket											<ul style="list-style-type: none"> <li>• Password Manager</li> </ul>		
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications (only some listed)</b>		
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Desktop Power Manager</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>		
DP dongle	None													
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide													
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset													
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)													
eSATA port	None													
Media reader	None													
Chipset	<b>Intel Q85 Express Chipset</b>													
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)													
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
PCIe WLAN	None													
Bluetooth	None													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	280 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>• Mini Tower (25L), business black color, metal case</li> <li>• (WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>• 24.69 lb (11.20 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>													
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk													
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)													
Limited Warranty	<b>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</b>													
See footnotes for important warranty information												Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		

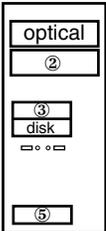
See footnotes for important warranty information

# ThinkCentre M83 Mini Tower (10AG) - ES 6.0 ( Windows 8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Additional Front Graphics	2nd serial port	Chassis intrusion switch	ENERGY STAR 6.0 Global	Preload	Ann date (mm/dd/yy)
10AG000CUS	3x5	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	ES6.0	None Win8 Pro64 07/30/13

•3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>										<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b>										Windows® 8 Pro 64-bit
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>• Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Desktop Power Manager</li> <li>• Norton™ Studio</li> <li>• AccuWeather</li> <li>• Evernote®</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• ThinkVantage System Update</li> <li>• Lenovo Solution Center</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide										
Optical	DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive										
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset										
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)										
eSATA port	None										
Media reader	None										
Chipset	<b>Intel Q85 Express Chipset</b>										
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)										
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i>										
Bluetooth	None										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec										
Speaker	Internal speaker for business audio (1.5 watt)										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	280 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>• Mini Tower (25L), business black color, metal case</li> <li>• (WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>• 24.69 lb (11.20 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>										
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk										
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)										
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced July 30, 2013

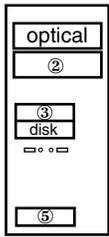
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# ThinkCentre M83 Mini Tower (10AG) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Additional Front Graphics	2nd serial port	Chassis intrusion switch	Key-board	ENERGY STAR 6.0	Global (G) GMP (P)	Ann date (mm/dd/yy)
10AG000PUS	3x5	i5-4570	4GBx1	1TB 7200	DVD	Intel 105	HD 8470	USB	None	Switch	USB	ES6.0 G P Win7 Pro64 (DG)	07/30/13
10AG000QUS	3x5	i5-4570	2GBx1	500GB 7200	DVD	None	HD 4600	None	None	Switch	USB	ES6.0 G P Win7 Pro64	07/30/13
10AG000RUS	3x5	i5-4570	4GBx1	500GB 7200	DVD	None	HD 4600	USB	None	Switch	USB	ES6.0 G P Win7 Pro64 (DG)	07/30/13
10AG000SUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	Finger	ES6.0 G P Win7 Pro64 (DG)	08/20/13
10AG000TUS	3x5	i5-4570	4GBx1	1TB 7200	DVD±RW	Intel 105	HD 8470	USB	None	Switch	USB	ES6.0 G P Win7 Pro64 (DG)	08/20/13
10AG000UUS	3x5	i5-4570	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	USB	ES6.0 G P Win7 Pro64 (DG)	09/10/13
10AG001KUS	3x5	i5-4590	2GBx1	500GB 7200	DVD	None	HD 4600	None	None	Switch	USB	ES6.0 G P Win7 Pro64	06/10/14
10AG001PUS	3x5	i5-4590	4GBx1	500GB 7200	DVD±RW	None	HD 4600	USB	None	Switch	USB	ES6.0 G P Win7 P64 DG Win 8.1	07/08/14
10AG001QUS	3x5	i5-4590	4GBx1	1TB 7200	DVD±RW	8723BE	GT 620	None	None	Switch	USB	ES6.0 G P Win7 P64 DG Win 8.1	07/08/14

Positioning	<i>Mainstream enterprise stability and manageability</i>
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket
Implementation	
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, Direct <sup>X</sup> ® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide
Optical	<i>Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max<sup>4</sup> Drive</i> <i>Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive</i>
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)
eSATA port	None
Media reader	None
Chipset	<b>Intel Q85 Express Chipset</b>
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1</i> <i>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</i>
Bluetooth	High Definition (HD) Audio, Realtek® ALC662 codec
Audio	Internal speaker for business audio (1.5 watt)
Speaker	None
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM1.2-compliant)
Keyboard	<i>Some: Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo</i> <i>Some: Lenovo USB Fingerprint Keyboard (USB connector)</i>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Power supply	280 watts, autosensing, 85% PSU
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



<b>Preloaded operating system</b>
<i>Some: Windows® 7 Professional 64</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</i>
<b>Ready to install applications (only some listed)</b>
<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
<b>Preloaded applications (only some listed)</b>
<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>
<b>Security</b>
<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:               <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Supports ThinkVantage Technologies
For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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Lenovo ThinkCentre M93/M93p Tiny with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M93/M93p Tiny with optional WLAN



Lenovo ThinkCentre M93/M93p Tiny with optional external I/O box



Lenovo ThinkCentre M93/M93p Tiny with optional external optical box



Lenovo ThinkCentre M93/M93p Tiny (inside view)



Lenovo ThinkCentre M93/M93p Tiny

# ThinkCentre M93/M93p Tiny, Small Pro, Mini Tower - II



Lenovo ThinkCentre M93/M93p Mini Tower with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M93/M93p Mini Tower with optional WLAN and graphic card



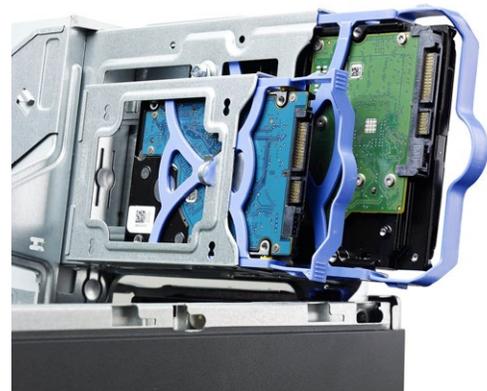
Lenovo ThinkCentre M93/M93p Small Pro with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M93/M93p Small Pro with optional dual graphic cards  
\* Cable lock only available on some special bid models



Lenovo ThinkCentre M93/M93p Small Pro (inside view)



Optional 2.5" bay on  
Lenovo ThinkCentre M93/M93p Small Pro  
\* Come with optional 2.5" 2nd HDD

# ThinkCentre M93p Tiny (10AB) - TopSeller I

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date (mm/dd/yy)
10AB000DUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 105	2nd DP	None	None	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000EUS	i5-4570T	4GBx1	500G Hybrid DVD±RW	None	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000FUS	i7-4765T	8GBx1	500G Hybrid DVD±RW	None	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000GUS	i7-4765T	4GBx2	180G SSD DVD±RW	None	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000HUS	i7-4765T	4GBx1	500G Hybrid DVD±RW	None	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000JUS	i5-4570T	4GBx2	180G SSD DVD±RW	None	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000KUS	i5-4570T	4GBx1	500G Hybrid DVD±RW	None	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000QUS	i7-4765T	4GBx1	500G Hybrid DVD±RW	None	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000RUS	i5-4570T	4GBx1	500G Hybrid DVD±RW	None	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache),</b> Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1150 socket										Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed)			
Implementation	Processor in LGA1150 socket										<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<b>Preloaded applications</b> (only some listed)			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz;                      1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote</li> <li>● Intel AppUp</li> <li>● Intel Small Business Advantage</li> <li>● Nitro Pro</li> </ul>			
DP dongle	None													
Disk	<i>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</i> <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</i>													
External optical SATA controller	<i>Some: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0</i>													
Onboard SATA eSATA port	Serial ATA, SATA 6.0Gb/s support, integrated in chipset													
Chipset	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar													
Chipset	<b>Intel Q87 Express Chipset</b>													
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)													
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)													
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port													
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)													
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</i> <i>Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2</i>													
Bluetooth	<i>Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</i>										<b>Security</b>			
Audio	High Definition (HD) Audio, Realtek® ALC283 codec										<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> </ul>			
Speaker	Internal speaker for business audio (1.5 watt)										<ul style="list-style-type: none"> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	Optional system floor stand for vertical orientation													
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Machine	<ul style="list-style-type: none"> <li>● Tiny (1L), business black color; metal case</li> <li>● <i>M93p Tiny only:</i> 7.0" W X 7.2" D X 1.4" H</li> <li>● <i>M93p Tiny only:</i> 179mm W X 182mm D X 34.5mm H</li> <li>● <i>M93p Tiny only:</i> 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>● <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H</li> <li>● <i>With VESA mount &amp; optical box:</i> 184mm W X 182mm D X 65mm H</li> <li>● <i>With VESA mount &amp; optical box:</i> 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>										Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service,</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US model(s) announced July 2, 2013

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 (MSS1N-1) July 2013

# ThinkCentre M93p Tiny (10AB) - TopSeller II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>6</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date (mm/dd/yy)
10AB000SUS	i7-4765T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000TUS	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 105	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB000UUS	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	None	None	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0010US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	2nd DP	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0011US	i7-4765T	8GBx1	128G SSD	DVD±RW	HD 4600	Intel 6235	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0012US	i7-4765T	4GBx1	128G SSD	DVD±RW	HD 4600	Intel 2230	HDMI	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0013US	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0014US	i5-4570T	4GBx1	500G 7200	I/O box	HD 4600	Intel 105	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0015US	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 2230	2nd DP	None	None	Mount	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB0016US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	Serial	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AB002AUS	i5-4570T	4GBx1	128G SSD	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	12/10/13

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache),</b> Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed)
Implementation	Processor in LGA1150 socket											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>Preloaded applications</b> (only some listed)
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>
DP dongle	None											
Disk	<i>Some:</i> SATA 6.0Gb/s, 2.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide											
External optical	<i>Some:</i> external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0											
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset											
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar											
eSATA port	None											
Chipset	<b>Intel Q87 Express Chipset</b>											
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)											
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port											
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)											
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Audio	High Definition (HD) Audio, Realtek® ALC283 codec											
Speaker	Internal speaker for business audio (1.5 watt)											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)											
Modem	None											
Security chip	Trusted Platform Module (TPM1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	Optional system floor stand for vertical orientation											
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard											
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU											
Machine	<ul style="list-style-type: none"> <li>Tiny (1L), business black color; metal case</li> <li><i>M93/p Tiny only:</i> 7.0" W X 7.2" D X 1.4" H</li> <li><i>M93/p Tiny only:</i> 179mm W X 182mm D X 34.5mm H</li> <li><i>M93/p Tiny only:</i> 2.9 lb (1.3 kg), weight may vary by configuration</li> <li><i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H</li> <li><i>With VESA mount &amp; optical box:</i> 184mm W X 182mm D X 65mm H</li> <li><i>With VESA mount &amp; optical box:</i> 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
Limited Warranty	<b>3-years, limited onsite service,</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced July 2, 2013 or December 10, 2013

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 (MSS1N-2) December 2013

# ThinkCentre M93p Tiny (10AB) - TopSeller III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date (mm/dd/yy)
10AB002TUS	i7-4765T	4GBx1	500G 7200	None	HD 4600	7260 ac	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 01/14/14
10AB002VUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	7260 bn	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 01/14/14
10AB002WUS	i7-4765T	8GBx1	128G SSD	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 01/14/14
10AB002UUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	7260 ac	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 01/14/14
10AB002XUS	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	7260 bn	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG	Win8.1 02/25/14
10AB002YUS	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	7260 bn	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG	Win8.1 02/25/14
10AB0030US	i7-4765T	8GBx1	128G SSD	DVD±RW	HD 4600	7260 ac	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG	Win8.1 02/25/14
10AB003JUS	i7-4765T	8GBx1	256G SSD OPAL	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 06/17/14
10AB003KUS	i5-4570T	4GBx1	256G SSD OPAL	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 06/17/14

● Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>											<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
Implementation	Processor in LGA1150 socket											<b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote</li> <li>● Intel AppUp</li> <li>● Intel Small Business Advantage</li> <li>● Nitro Pro</li> </ul>		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)													
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>											<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>		
DP dongle	None													
Disk	<i>Some:</i> SATA 6.0Gb/s, 2.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide											<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> <b>ULE Gold</b> Cisco EnergyWise compatible <b>GREENGUARD® certified</b> <b>RoHS-compliant</b>		
External optical SATA controller	<i>Some:</i> external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0 Serial ATA, SATA 6.0Gb/s support, integrated in chipset													
Onboard SATA eSATA port	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar											<b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Chipset	<b>Intel Q87 Express Chipset</b>													
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)													
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)													
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port													
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)													
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2													
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter													
Audio	High Definition (HD) Audio, Realtek® ALC283 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	Optional system floor stand for vertical orientation													
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU													
Machine	<ul style="list-style-type: none"> <li>● Tiny (1L), business black color; metal case</li> <li>● <i>M93/p Tiny only:</i> 7.0" W X 7.2" D X 1.4" H</li> <li>● <i>M93/p Tiny only:</i> 179mm W X 182mm D X 34.5mm H</li> <li>● <i>M93/p Tiny only:</i> 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>● <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H</li> <li>● <i>With VESA mount &amp; optical box:</i> 184mm W X 182mm D X 65mm H</li> <li>● <i>With VESA mount &amp; optical box:</i> 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>													
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available													

See footnotes for important warranty information  
 US model(s) announced January 14 or February 25, 2014

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 (MSS1N-8) February 2014

# ThinkCentre M93p Tiny (10AB) - TopSeller IV

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date (mm/dd/yy)
10AB004AUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	None	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004CUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004MUS	I7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004EUS	I5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004DUS	I5-4590T	8GBx1	256G SSD	None	HD 4600	7260 ac	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004QUS	I7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004NUS	I7-4785T	8GBx1	256G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004KUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004FUS	I5-4590T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	None	Mount	USB	vPro	Win7 P64 DG Win8.1	10/28/14
10AB004LUS	I7-4785T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	USB	None	Stand	None	USB	vPro	Win7 P64 DG Win8.1	10/28/14

●Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>		
Processor	<b>Intel® Core i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4785T Processor (4 cores / 8 threads, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit		
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed) ● Rescue and Recovery™ ● Password Manager  <b>Preloaded applications</b> (only some listed) ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● Desktop Power Manager ● View Management Utility ● Lenovo Cloud Storage by SugarSync ● Lenovo Solution Center ● Lenovo Message Center Plus ● Norton™ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype™ ● Microsoft Office preloaded; purchase a product key to activate ● Cyberlink PowerDVD (DVD±RW, DVD) ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) ● Evernote ● Intel AppUp ● Intel Small Business Advantage ● Nitro Pro		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)													
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, Direct <sup>X</sup> ® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>											<b>Security</b> ● Security chip (see information on left) ● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) ● Power-on password ● Administrator password ● Hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● Individual USB port disablement ● Chassis intrusion switch on selected model(s)		
DP dongle	None													
Disk	Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide											<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
External optical	Some: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0													
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset											<b>Supports ThinkVantage Technologies</b>  For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar													
eSATA port	None													
Chipset	<b>Intel Q87 Express Chipset</b>													
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)													
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)													
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port													
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)													
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2													
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter													
Audio	High Definition (HD) Audio, Realtek® ALC283 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)													
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	Optional system floor stand for vertical orientation													
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU													
Machine	● Tiny (1L), business black color; metal case ● <i>M93/p Tiny only:</i> 7.0" W X 7.2" D X 1.4" H ● <i>M93/p Tiny only:</i> 179mm W X 182mm D X 34.5mm H ● <i>M93/p Tiny only:</i> 2.9 lb (1.3 kg), weight may vary by configuration ● <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H ● <i>With VESA mount &amp; optical box:</i> 184mm W X 182mm D X 65mm H ● <i>With VESA mount &amp; optical box:</i> 5.1 lb (2.3 kg), weight may vary by configuration													
Limited Warranty	<b>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</b>													

See footnotes for important warranty information

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(MSS1N-10) October 2014

# ThinkCentre M93p Tiny (10AB) - TopSeller V

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe WLAN	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date (mm/dd/yy)
10AB004TUS	I7-4785T	4GBx1	256G SSD	None	HD 4600	7260 b/g/n	2nd DP	None	None	Mount	USB	vPro	Win7 P64 DG	Win8.1 10/28/14
10AB004RUS	I7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 10/28/14
10AB004SUS	I7-4785T	4GBx1	256G SSD	None	HD 4600	7260 b/g/n	HDMI	None	None	Mount	USB	vPro	Win7 P64 DG	Win8.1 10/28/14
10AB004HUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 10/28/14
10AB004PUS	I7-4785T	4GBx1	180G SSD	None	HD 4600	7260 b/g/n	Serial	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 10/28/14
10AB004UUS	I7-4785T	8GBx1	180G SSD	None	HD 4600	7260 b/g/n	USB	None	None	Mount	USB	vPro	Win7 P64 DG	Win8.1 10/28/14
10AB004JUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	HDMI	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 10/28/14
10AB004BUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	2nd DP	None	Stand	None	USB	vPro	Win7 P64 DG	Win8.1 10/28/14
10AB004GUS	I5-4590T	4GBx1	500G 7200	None	HD 4600	7260 b/g/n	Serial	None	None	Mount	USB	vPro	Win7 P64 DG	Win8.1 10/28/14

● Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Core i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4785T Processor (4 cores / 8 threads, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>											<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI) @60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote</li> <li>● Intel AppUp</li> <li>● Intel Small Business Advantage</li> <li>● Nitro Pro</li> </ul>
DP dongle	None											
Disk	<i>Some:</i> SATA 6.0Gb/s, 2.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide											
External optical	<i>Some:</i> external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0											
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset											
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar											
eSATA port	None											
Chipset	<b>Intel Q87 Express Chipset</b>											
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)											
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port											
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)											
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2											
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Audio	High Definition (HD) Audio, Realtek® ALC283 codec											
Speaker	Internal speaker for business audio (1.5 watt)											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)											
Modem	None											
Security chip	Trusted Platform Module (TPM1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	Optional system floor stand for vertical orientation											
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard											
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU											
Machine	<ul style="list-style-type: none"> <li>● Tiny (1L), business black color; metal case</li> <li>● <i>M93/p Tiny only:</i> 7.0" W X 7.2" D X 1.4" H</li> <li>● <i>M93/p Tiny only:</i> 179mm W X 182mm D X 34.5mm H</li> <li>● <i>M93/p Tiny only:</i> 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>● <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H</li> <li>● <i>With VESA mount &amp; optical box:</i> 184mm W X 182mm D X 65mm H</li> <li>● <i>With VESA mount &amp; optical box:</i> 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>											<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> <b>ULE Gold</b> Cisco EnergyWise compatible <b>GREENGUARD® certified</b> <b>RoHS-compliant</b> <b>Supports ThinkVantage Technologies</b>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

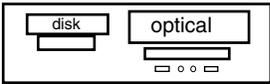
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(MSS1N-11) October 2014

# ThinkCentre M93p SFF Pro (10A9) - TopSeller - I

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date (mm/dd/yy)
10A9000HUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000JUS	4x4	i5-4670	4GBx1	500G Hybrid	DVD±RW	None	HD 4600	USB	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000KUS	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	GT 620	USB	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000LUS	4x4	i7-4770	8GBx1	500G Hybrid	DVD±RW	None	GT 620	None	None	None	None	None	vPro	Win7 Pro64 (DG)	06/18/13
10A9000MUS	4x4	i7-4770	4GBx2	500G Hybrid	DVD±RW	None	GT 620	USB	Serial	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A90014US	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	105	GT 620	USB	Serial	Parallel	None	Stand	vPro	Win7 Pro64 (DG)	08/13/13

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),</b> Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz;</i> 1920x1200 (VGA)@60Hz (Reduced Blanking) Some: <b>NVIDIA® Geforce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>			
DP dongle	None														
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	None														
Chipset	<b>Intel Q87 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Floor Stand	Some: System floor stand for vertical orientation														
Power supply	240 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader														
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US model(s) announced June 18, 2013 or August 13, 2013

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 (MSS1S-3) August 2013

# ThinkCentre M93p SFF Pro (10A9) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date (mm/dd/yy)
10A9000NUS	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 8470	USB	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000PUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000QUS	4x4	i5-4670	4GBx2	500G Hybrid	DVD±RW	None	None	GT 620	USB	Serial	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000RUS	4x4	i5-4670	4GBx1	1TB 7200	DVD±RW	None	None	HD 8470	USB	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A9000SUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	06/18/13
10A90016US	4x4	i7-4770	4GBx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	10/08/13
10A90017US	4x4	i5-4570	4GBx1	128G SSD	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	Win7 Pro64 (DG)	10/08/13
10A9002CUS	4x4	i5-4670	4GBx1	500G Hybrid	DVD±RW	None	None	GT 620	None	None	None	Stand	vPro	Win7 Pro64 (DG)	12/10/13

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning Processor	<p><i>Ultimate security, stability, and manageability for the enterprise</i></p> <p><b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b></p> <p><b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b></p> <p><b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b></p>	<p><b>Preloaded operating system</b></p> <p>Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><b>Ready to install applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <p><b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>
Implementation	Processor in LGA1150 socket	
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	
Graphics	<p><b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors;</p> <p><i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz;</i></p> <p>1920x1200 (VGA)@60Hz (Reduced Blanking)</p> <p><i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz,</i></p> <p><i>Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz,</i></p>	
DP dongle	None	
Disk	<p><i>Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide</i></p> <p><i>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</i></p> <p><i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</i></p>	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support	
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel Q87 Express Chipset</b>	
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
PCIe WLAN	None	
Bluetooth	None	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio (1 watt)	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	System floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>SFF Pro (12.9L), business black color; metal case</li> <li>(WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>17.20 lb (7.8 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk and optical drive removal</li> </ul>	
Bay	<p>Bay 1: 5.25", 1.6" high, external, std optical</p> <p>Bay 2: 3.5", 1" high, internal, std disk</p> <p>Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk</p> <p>Bay 4: 3.5", 0.5" high, external, opt reader</p>	
Slot	<p>Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1</p> <p>Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)</p> <p>Slot 4: Low Profile, 32-bit PCI 2.3</p>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<p><b>Security</b></p> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information

US model(s) announced June 18, 2013, October 8, 2013, or December 10, 2013

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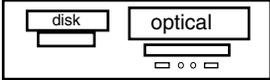
(MSS1S-4) December 2013

# ThinkCentre M93p SFF Pro (10A9) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model	Slot x Pro-bay	Processor	Memory <sup>®</sup>	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial intrusion port	Chassis switch	Floor stand	Intel vPro	Preload	Ann date (mm/dd/yy)
10A9002TUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002UUS	4x4	i7-4770	8GBx1	500G 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002VUS	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A9002WUS	4x4	i5-4670	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/11/14
10A90034US	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 8570	None	None	None	Stand	vPro	Win7 P64 DG Win8.1	03/25/14
10A9003TUS	4x4	i7-4770	8GBx1	256G SSD OPAL	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	06/17/14

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>					
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>										Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit					
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)					
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets										<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>					
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i> <i>Some: AMD Radeon HD 8570, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz,</i>										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>					
DP dongle	None															
Disk	<i>Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide</i> <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide</i>															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support															
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port	None															
Media reader	None															
Chipset	<b>Intel Q87 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	None															
Bluetooth	None															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville) - Wake on LAN®															
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>					
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Floor Stand	System floor stand for vertical orientation															
Power supply	240 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>SFF Pro (12.9L), business black color; metal case</li> <li>(WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>17.20 lb (7.8 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk and optical drive removal</li> </ul>															
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant					
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3															
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										Supports ThinkVantage Technologies  For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet					

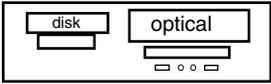
See footnotes for important warranty information

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# ThinkCentre M93p SFF Pro (10A9) - TopSeller - IV

Product Specifications Reference (PSREF)

Type-model	Slot x Pro-bay	Processor	Memory <sup>®</sup>	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date (mm/dd/yy)
10A90049US	4x4	i7-4790	8GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90045US	4x4	i5-4590	4GBx1	500G 7200	DVD±RW	None	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004CUS	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90048US	4x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	GT 620	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90046US	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	None	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004AUS	4x4	i5-4590	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A90047US	4x4	i7-4790	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14
10A9004BUS	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG Win8.1	10/28/14

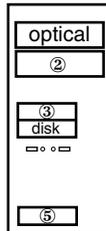
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit				
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed)				
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>NVIDIA® Geforce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>				
DP dongle	None															
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support															
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port	None															
Media reader	None															
Chipset	<b>Intel Q87 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	Some: 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2															
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Floor Stand	System floor stand for vertical orientation															
Power supply	240 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader															
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3															
												EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
												Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

# ThinkCentre M93p Mini Tower (10A7) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10A7000BUS	4x5	i5-4570	4Gx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000CUS	4x5	i5-4670	4Gx1	500G Hybrid	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000DUS	4x5	i7-4770	4Gx1	1TB 7200	DVD±RW	None	HD 8570	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000EUS	4x5	i7-4770	4Gx2	500G Hybrid	DVD±RW	Media	HD 8570	None	Serial	Parallel	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000FUS	4x5	i7-4770	4Gx1	500G 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000GUS	4x5	i5-4670	4Gx2	500G Hybrid	DVD±RW	None	GT 620	USB	Serial	None	None	vPro	None	Win7 Pro64 (DG)	06/18/13
10A7000QUS	4x5	i7-4770	8Gx1	1TB 7200	DVD±RW	None	GT 620	None	None	None	None	vPro	None	Win7 Pro64 (DG)	07/09/13
10A7000SUS	4x5	i7-4770	4Gx1	1TB 7200	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13
10A7000TUS	4x5	i5-4570	4Gx1	128G SSD	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13
10A7000UUS	4x5	i7-4770	8Gx1	180G SSD	DVD±RW	None	HD 4600	None	None	None	None	vPro	None	Win7 Pro64 (DG)	10/08/13

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed)			
Implementation	Processor in LGA1150 socket											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<b>Preloaded applications</b> (only some listed)			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon HD 8570</b> , DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; <i>Max resolution: 4096x2160 (HDMI) @24Hz; 2048x1536 (VGA) @85Hz</i> Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz</i>											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None														
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	Some: 29-in-1 media reader, internal USB 2.0														
Chipset	<b>Intel Q87 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	None														
Bluetooth	None														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1.5 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3											Supports ThinkVantage Technologies			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information

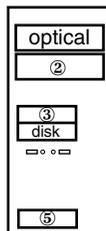
US model(s) announced June 18, 2013, July 9, 2013, or October 8, 2013

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(MSS1T-3) October 2013

# ThinkCentre M93p Mini Tower (10A7) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Parallel port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/yy)
10A70028US	4x5	i5-4570	4Gx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG	Win8.1 02/14
10A70029US	4x5	i7-4770	8Gx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG	Win8.1 02/14
10A7002AUS	4x5	i7-4770	8Gx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG	Win8.1 02/14
10A7003CUS	4x5	i7-4770	8Gx1	256G SSD OPAL	DVD±RW	None	None	HD 7450	USB	None	None	None	vPro	None	Win7 P64 DG	Win8.1 06/14
10A7003UUS	4x5	i7-4790	8Gx1	1TB 7200	DVD±RW	None	None	GT 620	None	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/14
10A7003RUS	4x5	i5-4590	8Gx1	256G SSD	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/14
10A7003PUS	4x5	i5-4590	4Gx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/14
10A7003QUS	4x5	i5-4590	4Gx1	500G 7200	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/14
10A7003SUS	4x5	i7-4790	8Gx1	1TB 7200	DVD±RW	None	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/14
10A7003TUS	4x5	i7-4790	8Gx1	256G SSD	DVD±RW	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/14
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit				
Implementation	Processor in LGA1150 socket											<b>Ready to install applications (only some listed)</b>				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>				
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Max resolution: 2560x1600 (DP)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i> Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>				
DP dongle	None															
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support															
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port	None															
Media reader	Some: 29-in-1 media reader, internal USB 2.0															
Chipset	<b>Intel Q87 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	Some: 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2															
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1.5 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>				
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	280 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>															
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3											Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

# ThinkCentre M93p Tiny (10AA) - 1 Year Depot

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Keyboard / mouse	Intel vPro	Preload	Ann date (mm/dd/yy)
10AA0023US	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	HDMI	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AA0024US	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 105	HDMI	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13
10AA0025US	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 6235	HDMI	None	Stand	None	USB	vPro	Win7 Pro64 (DG)	07/02/13

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- A depot repair service 1-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache),</b> Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1150 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed)
Implementation	Processor in LGA1150 socket											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>Preloaded applications</b> (only some listed)
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz;                      1920x1200 (VGA)@60Hz (Reduced Blanking)</i>											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>
DP dongle	None											
Disk	Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm											
External optical	None											
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset											
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar											
eSATA port	None											
Chipset	<b>Intel Q87 Express Chipset</b>											
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)											
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port											
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)											
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Audio	High Definition (HD) Audio, Realtek® ALC283 codec											
Speaker	Internal speaker for business audio (1.5 watt)											
IEEE 1394	None											
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)											
Modem	None											
Security chip	Trusted Platform Module (TPM1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Floor Stand	Optional system floor stand for vertical orientation											
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard											
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU											
Machine	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> <li>• <i>M93/p Tiny only:</i> 7.0" W X 7.2" D X 1.4" H</li> <li>• <i>M93/p Tiny only:</i> 179mm W X 182mm D X 34.5mm H</li> <li>• <i>M93/p Tiny only:</i> 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>• <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H</li> <li>• <i>With VESA mount &amp; optical box:</i> 184mm W X 182mm D X 65mm H</li> <li>• <i>With VESA mount &amp; optical box:</i> 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Limited Warranty	1-years - depot repair service / service upgrades available											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced July 2, 2013

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 (MSS1N-6) July 2013

# ThinkCentre M93p Tiny (10AA)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AA0027US	i7-4765T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 6235	2nd DP	None	None	Mount	vPro	None	Win7 P64 DG Win8	09/10/13
10AA0028US	i5-4570T	4GBx1	500G Hybrid	DVD±RW	HD 4600	Intel 6235	2nd DP	None	None	Mount	vPro	None	Win7 P64 DG Win8	09/10/13
10AA002BUS	i7-4765T	4GBx1	500G 7200	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8	09/10/13
10AA002AUS	i7-4765T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 2230	HDMI	None	None	Mount	vPro	None	Win7 P64 DG Win8	09/10/13
10AA0029US	i5-4570T	4GBx1	500G Hybrid	I/O box	HD 4600	Intel 2230	HDMI	None	None	Mount	vPro	None	Win7 P64 DG Win8	09/10/13
10AA002CUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8	09/10/13
10AA003PUS	i7-4765T	4GBx1	256G SSD	None	HD 4600	Intel 6235	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8	11/12/13
10AA003QUS	i5-4570T	4GBx1	256G SSD	None	HD 4600	Intel 6235	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8	11/12/13
10AA0056US	i7-4765T	8GBx1	256G SSD OPAL	None	HD 4600	7260 AC	2nd DP	None	Stand	None	vPro	None	Win7 P64 DG Win8.1	06/17/14

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache),</b> Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1150 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1080 (HDMI) @60Hz;                      1920x1200 (VGA) @60Hz (Reduced Blanking)</i>										<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote</li> <li>● Intel AppUp</li> <li>● Intel Small Business Advantage</li> <li>● Nitro Pro</li> </ul>			
DP dongle	None													
Disk	Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide													
External optical	Some: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0													
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset													
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar													
eSATA port	None													
Chipset	<b>Intel Q87 Express Chipset</b>													
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)													
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)													
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port													
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)													
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2													
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter													
Audio	High Definition (HD) Audio, Realtek® ALC283 codec													
Speaker	Internal speaker for business audio (1.5 watt)													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®													
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)													
Modem	None													
Security chip	Trusted Platform Module (TPM1.2-compliant)										<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● Individual USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Floor Stand	Optional system floor stand for vertical orientation													
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard													
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU													
Machine	<ul style="list-style-type: none"> <li>● Tiny (1L), business black color; metal case</li> <li>● M93/p Tiny only: 7.0" W X 7.2" D X 1.4" H</li> <li>● M93/p Tiny only: 179mm W X 182mm D X 34.5mm H</li> <li>● M93/p Tiny only: 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>● With VESA mount &amp; optical box: 7.2" W X 7.2" D X 2.55" H</li> <li>● With VESA mount &amp; optical box: 184mm W X 182mm D X 65mm H</li> <li>● With VESA mount &amp; optical box: 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information

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(MSS1N-7) June 2014

# ThinkCentre M93p Tiny (10AA) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>6</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel Global (G) vPro GMP (P)	Preload	Ann date (mm/dd/yy)
10AA001YUS	i5-4570T	2GBx1	320G 5400	None	HD 4600	Intel 105	None	Switch	Stand	None	vPro G P	Win7 Pro64	07/02/13
10AA0020US	i5-4570T	4GBx1	500G 5400	DVD	HD 4600	Intel 2230	Serial	Switch	None	Mount	vPro G P	Win7 Pro64 (DG)	07/02/13
10AA0021US	i7-4765T	4GBx1	128G SSD	DVD	HD 4600	Intel 2230	2nd DP	Switch	None	Mount	vPro G P	Win7 Pro64 (DG)	07/02/13
10AA0022US	i5-4570T	4GBx1	500G 5400	None	HD 4600	Intel 2230	HDMI	Switch	Stand	None	vPro G P	Win7 Pro64 (DG)	07/02/13
10AA002RUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 2230	HDMI	Switch	Stand	None	vPro G P	Win7 Pro64 (DG)	10/08/13
10AA002SUS	i5-4570T	4GBx1	500G 7200	DVD±RW	HD 4600	Intel 2230	Serial	Switch	None	Mount	vPro G P	Win7 Pro64 (DG)	10/08/13
10AA002UUS	i5-4570T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	HDMI	None	Stand	None	vPro G P	Win7 Pro64 (DG)	11/12/13
10AA002VUS	i7-4765T	4GBx1	500G Hybrid	None	HD 4600	Intel 2230	2nd DP	None	Stand	None	vPro G P	Win7 Pro64 (DG)	11/12/13
10AA002WUS	i5-4570T	4GBx1	500G 7200	None	HD 4600	Intel 105	2nd DP	None	Stand	None	vPro G P	Win7 Pro64 (DG)	11/12/13
10AA004JUS	i5-4590T	2GBx1	320G 5400	None	HD 4600	Intel 105	None	Switch	Stand	None	vPro G P	Win7 Pro64	06/10/14

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										<b>Preloaded operating system</b>		
Processor	<b>Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket										Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit		
Implementation	Processor in LGA1150 socket										<b>Ready to install applications</b> (only some listed)		
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>		
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										<b>Preloaded applications</b> (only some listed)		
DP dongle	None										<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>		
Disk	Some: SATA 3.0Gb/s, 2.5" Wide, 5400 rpm Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide												
External optical	Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB 3.0 Some: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0												
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset												
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar												
eSATA port	None												
Chipset	<b>Intel Q87 Express Chipset</b>												
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)												
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)												
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port												
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)												
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2												
Bluetooth	Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter										<b>Security</b>		
Audio	High Definition (HD) Audio, Realtek® ALC283 codec										<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>		
Speaker	Internal speaker for business audio (1.5 watt)												
IEEE 1394	None												
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®												
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)												
Modem	None												
Security chip	Trusted Platform Module (TPM1.2-compliant)												
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo												
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Floor Stand	Optional system floor stand for vertical orientation												
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard												
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
Machine	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> <li>• M93/p Tiny only: 7.0" W X 7.2" D X 1.4" H</li> <li>• M93/p Tiny only: 179mm W X 182mm D X 34.5mm H</li> <li>• M93/p Tiny only: 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>• With VESA mount &amp; optical box: 7.2" W X 7.2" D X 2.55" H</li> <li>• With VESA mount &amp; optical box: 184mm W X 182mm D X 65mm H</li> <li>• With VESA mount &amp; optical box: 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>										Supports ThinkVantage Technologies		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information

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# ThinkCentre M93p Tiny (10AA) - GMP - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel Global (G) vPro GMP (P)	Preload	Ann date (mm/dd/yy)
10AA004WUS	i7-4785T	4GBx1	128G SSD	DVD	HD 4600	7260 b/g/n	2nd DP	Switch	None	Mount	vPro G P	Win7 P64 DG Win 8.1	07/08/14
10AA004XUS	i5-4590T	4GBx1	500G 5400	None	HD 4600	7260 b/g/n	HDMI	Switch	Stand	None	vPro G P	Win7 P64 DG Win 8.1	07/08/14
10AA004YUS	i5-4590T	4GBx1	500G 5400	DVD	HD 4600	7260 b/g/n	Serial	Switch	None	Mount	vPro G P	Win7 P64 DG Win 8.1	07/08/14

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										
Processor	<b>Intel® Core™ i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4785T Processor (4 cores / 8 threads, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>										
Implementation	Processor in LGA1150 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										
DP dongle	None										
Disk	<i>Some: SATA 3.0Gb/s, 2.5" Wide, 5400 rpm</i> <i>Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm</i> <i>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</i> <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</i>										
External optical	<i>Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB 3.0</i>										
SATA controller	<i>Some: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0</i>										
Onboard SATA	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										
eSATA port	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										
Chipset	<b>Intel Q87 Express Chipset</b>										
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)										
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port										
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)										
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</i>										
Bluetooth	<i>Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</i>										
Audio	High Definition (HD) Audio, Realtek® ALC283 codec										
Speaker	Internal speaker for business audio (1.5 watt)										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®										
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)										
Modem	None										
Security chip	Trusted Platform Module (TPM1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	Optional system floor stand for vertical orientation										
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard										
Power supply	65 watts AC/DC adapter, autosensing, 88% PSU										
Machine	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> <li>• <i>M93/p Tiny only:</i> 7.0" W X 7.2" D X 1.4" H</li> <li>• <i>M93/p Tiny only:</i> 179mm W X 182mm D X 34.5mm H</li> <li>• <i>M93/p Tiny only:</i> 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>• <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H</li> <li>• <i>With VESA mount &amp; optical box:</i> 184mm W X 182mm D X 65mm H</li> <li>• <i>With VESA mount &amp; optical box:</i> 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> <i>Some: Windows® 7 Professional 64</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</i>										
	<b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>										
	<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• <i>Chassis intrusion switch on selected model(s)</i></li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information

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# ThinkCentre M93p Tiny (10DH) - GMP (TIO models)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	SATA disk GB rpm	External optical / I/O box	Graphics	PCIe Mini Card WLAN / BT	Optional port	Chassis intrusion switch	Floor stand	VESA mount	Intel Global (G) vPro GMP (P)	Preload	Ann date (mm/dd/yy)
10DH0003US	i7-4765T	4GBx1	128G SSD	DVD±RW (TIO23)	HD 4600	7260 b/g/n	2nd DP	Switch	None	None	vPro G P	Win7 P64 DG Win 8.1	10/14/14
10DH0004US	i5-4570T	4GBx1	500G 5400	DVD±RW (TIO23)	HD 4600	7260 b/g/n	2nd DP	Switch	None	None	vPro G P	Win7 P64 DG Win 8.1	10/14/14
10DH0005US	i5-4570T	4GBx1	500G 7200	DVD±RW (TIO23)	HD 4600	7260 b/g/n	Serial	Switch	None	None	vPro G P	Win7 P64 DG Win 8.1	10/14/14

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

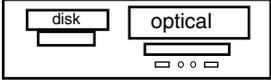
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>										
Processor	<b>Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket										
Implementation	Processor in LGA1150 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, Direct <sup>X</sup> ™ 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i>										
DP dongle	None										
Disk	<i>Some: SATA 3.0Gb/s, 2.5" Wide, 5400 rpm</i> <i>Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm</i> <i>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</i> <i>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</i>										
External optical	<i>Some: external USB optical box with DVD burner, 9.5mm high, compatible with TIO 23</i>										
SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in chipset										
Onboard SATA	One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar										
eSATA port	None										
Chipset	<b>Intel Q87 Express Chipset</b>										
Front ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										
Rear ports	Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)										
I/O box	Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port										
PCIe Mini Card	One PCI Express® Mini Card slot (Half Size)										
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</i>										
Bluetooth	<i>Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</i>										
Audio	High Definition (HD) Audio, Realtek® ALC283 codec										
Speaker	Internal speaker for business audio (1.5 watt)										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®										
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)										
Modem	None										
Security chip	Trusted Platform Module (TPM1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Floor Stand	Optional system floor stand for vertical orientation										
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard										
Power supply	None										
Machine	<ul style="list-style-type: none"> <li>• Tiny (1L), business black color; metal case</li> <li>• <i>M93p Tiny only:</i> 7.0" W X 7.2" D X 1.4" H</li> <li>• <i>M93p Tiny only:</i> 179mm W X 182mm D X 34.5mm H</li> <li>• <i>M93p Tiny only:</i> 2.9 lb (1.3 kg), weight may vary by configuration</li> <li>• <i>With VESA mount &amp; optical box:</i> 7.2" W X 7.2" D X 2.55" H</li> <li>• <i>With VESA mount &amp; optical box:</i> 184mm W X 182mm D X 65mm H</li> <li>• <i>With VESA mount &amp; optical box:</i> 5.1 lb (2.3 kg), weight may vary by configuration</li> </ul>										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> <i>Some: Windows® 7 Professional 64</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</i>										
	<b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>										
	<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>										
	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet										

# ThinkCentre M93p SFF Pro (10A8)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Preload	Ann date (mm/dd/yy)
10A8000TUS	4x4	i7-4770	4GBx2	1TB 7200	DVD±RW	None	Intel 105	Media	GT 620	None	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000UUS	4x4	i7-4770	4GBx2	1TB 7200	DVD±RW	None	None	None	GT 620	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000VUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000WUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000XUS	4x4	i5-4570	8GBx1	1TB 7200	DVD±RW	None	Intel 105	None	HD 4600	USB	Serial	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A8000YUS	4x4	i5-4570	4GBx1	250G 7200	DVD±RW	None	None	None	HD 4600	None	None	None	Stand	vPro	Win7 P64 DG Win8	06/18/13
10A80037US	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14
10A80038US	4x4	i7-4770	8GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 7450	USB	None	None	Stand	vPro	Win7 P64 DG Win8.1	02/04/14

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1150 socket											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit				
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>				
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution:</i> 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking) Some: <b>AMD Radeon™ HD 7450</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz Some: <b>NVIDIA® GeForce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution:</i> 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>				
DP dongle	None															
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide															
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support															
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
eSATA port	None															
Media reader	Some: 29-in-1 media reader, slim, internal USB 2.0															
Chipset	<b>Intel Q87 Express Chipset</b>															
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1															
Bluetooth	None															
Audio	High Definition (HD) Audio, Realtek® ALC662 codec															
Speaker	Internal speaker for business audio (1 watt)															
IEEE 1394	None															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)															
Modem	None															
Security chip	Trusted Platform Module (TPM1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Floor Stand	System floor stand for vertical orientation															
Power supply	240 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>															
Bay	Bay 1: 5.25", 1.6" high, external, std optical Bay 2: 3.5", 1" high, internal, std disk Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk Bay 4: 3.5", 0.5" high, external, opt reader											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Slot	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max) Slot 4: Low Profile, 32-bit PCI 2.3											Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
 US model(s) announced June 18, 2013 or February 4, 2014

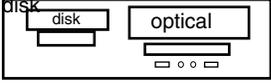
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 (MSS1S-1) February 2014

# ThinkCentre M93p SFF Pro (10A8) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	Optional 2.5" Bay	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial intrusion port	Chassis switch	Floor stand	Intel vPro	Preload	Ann date (mm/dd/yy)
10A8004MUS	4x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 8570	None	None	None	None	vPro	Win7 P64 DG	Win8.1 10/18/14
10A8004JUS	4x4	i5-4590	4GBx1	256G SSD	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG	Win8.1 10/18/14
10A8004KUS	4x4	i7-4790	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG	Win8.1 10/18/14
10A8004GUS	4x4	i5-4590	4GBx1	500G 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG	Win8.1 10/18/14
10A8004LUS	4x4	i7-4790	8GBx1	1TB 7200	DVD±RW	2.5" bay	7260 b/g/n	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG	Win8.1 10/18/14
10A8004HUS	4x4	i5-4590	4GBx1	1TB 7200	DVD±RW	2.5" bay	None	None	HD 4600	None	None	None	None	vPro	Win7 P64 DG	Win8.1 10/18/14

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

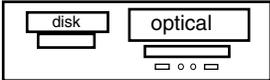
Positioning	Ultimate security, stability, and manageability for the enterprise											<b>Preloaded operating system</b>				
Processor	Intel® Core™ i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller											Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit				
Implementation	Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit				
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets															
Graphics	Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)											<b>Ready to install applications</b> (only some listed)				
	Some: AMD Radeon HD 8570, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; Max resolution: 4096x2160 (HDMI) @24Hz; 2048x1536 (VGA) @85Hz											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>				
DP dongle	None											<b>Preloaded applications</b> (only some listed)				
Disk	Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>				
Optical	Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide															
SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive															
Onboard SATA	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support															
eSATA port	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)															
Media reader	None															
Chipset	Some: 29-in-1 media reader, slim, internal USB 2.0															
Front ports	<b>Intel Q87 Express Chipset</b>															
Rear ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)															
Rear audio ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models															
PCIe WLAN	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)															
Bluetooth	Some: 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2															
Audio	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter															
Speaker	High Definition (HD) Audio, Realtek® ALC662 codec															
IEEE 1394	Internal speaker for business audio (1 watt)															
Ethernet	None															
Intel AMT	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Modem	Intel Active Management Technology 9.0 (Intel AMT 9.0)															
Security chip	None											<b>Security</b>				
Keyboard	Trusted Platform Module (TPM1.2-compliant)											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>- Padlock loop (in rear for opt padlock)</li> <li>- Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>				
Mouse	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo															
Floor Stand	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	System floor stand for vertical orientation															
Machine	240 watts, autosensing, 85% PSU															
Bay	<ul style="list-style-type: none"> <li>• SFF Pro (12.9L), business black color; metal case</li> <li>• (WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>• 17.20 lb (7.8 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk and optical drive removal</li> </ul>															
Slot	<ul style="list-style-type: none"> <li>Bay 1: 5.25", 1.6" high, external, std optical</li> <li>Bay 2: 3.5", 1" high, internal, std disk</li> <li>Bay 3: 2.5", N/A, internal, opt or come with opt 2.5" 2nd disk</li> <li>Bay 4: 3.5", 0.5" high, external, opt reader</li> </ul>															
Limited Warranty	Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)											EPEAT™ Gold rating				
	Slot 2: Low Profile, PCIe 2.0 x1											ENERGY STAR® 6.0-compliant				
	Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)											ULE Gold				
	Slot 4: Low Profile, 32-bit PCI 2.3											Cisco EnergyWise compatible				
												GREENGUARD® certified				
												RoHS-compliant				
												Supports ThinkVantage Technologies				
												For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

# ThinkCentre M93p SFF Pro (10A8) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Pro-processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Floor stand	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10A8001GUS	4x4	i5-4570	2GBx1	500G 7200	DVD	None	None	HD 4600	None	None	Switch	None	vPro	G P	Win7 Pro64	06/18/13
10A8001HUS	4x4	i5-4570	4GBx1	500G 7200	DVD	Intel 105	None	HD 4600	USB	None	Switch	Stand	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A8001JUS	4x4	i7-4770	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	Stand	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A8002CUS	4x4	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	Stand	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A8002DUS	4x4	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	Serial	None	Stand	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A8003UUS	4x4	i5-4590	2GBx1	500G 7200	DVD	None	None	HD 4600	None	None	Switch	None	vPro	G P	Win7 Pro64	06/10/14
10A80049US	4x4	i7-4790	4GBx1	1TB 7200	DVD	8723BE	None	GT 620	None	None	Switch	Stand	vPro	G P	Win7 P64 DG	07/08/14
10A8004AUS	4x4	i5-4590	4GBx1	500G 7200	DVD	8723BE	None	HD 4600	None	None	Switch	Stand	vPro	G P	Win7 P64 DG	07/08/14

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>	<b>Preloaded operating system</b>  <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit  <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket	
Implementation	Processor in LGA1150 socket	
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets	
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz</i> <i>Some: NVIDIA® Geforce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz</i>	
DP dongle	None	
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide	
Optical	<i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support	
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)	
eSATA port	None	
Media reader	None	
Chipset	<b>Intel Q87 Express Chipset</b>	
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1	
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio (1 watt)	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)	
Modem	None	
Security chip	Trusted Platform Module (TPM1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	<i>Some:</i> System floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>SFF Pro (12.9L), business black color; metal case</li> <li>(WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm</li> <li>17.20 lb (7.8 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk and optical drive removal</li> </ul>	
Bay	<ul style="list-style-type: none"> <li>Bay 1: 5.25", 1.6" high, external, std optical</li> <li>Bay 2: 3.5", 1" high, internal, std disk</li> <li>Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk</li> <li>Bay 4: 3.5", 0.5" high, external, opt reader</li> </ul> 	
Slot	<ul style="list-style-type: none"> <li>Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)</li> <li>Slot 2: Low Profile, PCIe 2.0 x1</li> <li>Slot 3: Low Profile, PCIe 2.0 x16 (x4 elec, 40w max)</li> <li>Slot 4: Low Profile, 32-bit PCI 2.3</li> </ul>	
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected mode(s)</li> </ul>		
EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant		
Supports ThinkVantage Technologies  For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information

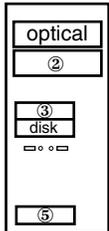
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# ThinkCentre M93p Mini Tower (10A6)

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
10A6000UUS	4x5	i7-4770	4GBx2	1TB 7200	DVD±RW	None	Media	GT 620	None	Serial	None	vPro	None	Win7 P64 DG Win8	06/18/13
10A6000VUS	4x5	i7-4770	4GBx2	500G 7200	DVD±RW	None	Media	HD 8570	None	Serial	None	vPro	None	Win7 P64 DG Win8	06/18/13
10A6000WUS	4x5	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	None	None	vPro	None	Win7 P64 DG Win8	06/18/13
10A6002NUS	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 7450	USB	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14
10A6002PUS	4x5	i7-4770	8GBx1	1TB 7200	DVD±RW	None	None	HD 7450	USB	None	None	vPro	None	Win7 P64 DG Win8.1	02/04/14

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>							
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit							
Implementation																			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets																		
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon HD 8570, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Intel Small Business Advantage</li> <li>• Nitro Pro</li> </ul>							
DP dongle	None																		
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide																		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive																		
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support																		
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)																		
eSATA port	None																		
Media reader	<i>Some:</i> 29-in-1 media reader, internal USB 2.0																		
Chipset	<b>Intel Q87 Express Chipset</b>																		
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																		
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models																		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																		
PCIe WLAN	None																		
Bluetooth	None																		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec																		
Speaker	Internal speaker for business audio (1.5 watt)																		
IEEE 1394	None																		
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®																		
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)																		
Modem	None																		
Security chip	Trusted Platform Module (TPM1.2-compliant)																		
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo																		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo																		
Power supply	280 watts, autosensing, 85% PSU																		
Machine	<ul style="list-style-type: none"> <li>• Mini Tower (25L), business black color, metal case</li> <li>• (WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>• 24.69 lb (11.20 kg) in maximum configuration</li> <li>• Toolless cover removal, adapter retention</li> <li>• Toolless disk, optical drive removal</li> </ul>																		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk																		
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3																		
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available																		
											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Serial port I/O control</li> <li>• Individual USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>								
											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant ULE Gold Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant								
											Supports ThinkVantage Technologies								
											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet								

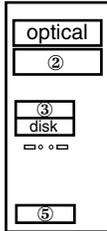
See footnotes for important warranty information  
 US model(s) announced June 18, 2013 or February 4, 2014

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 (MSS1T-1) February 2014

# ThinkCentre M93p Mini Tower (10A6) - II

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Additional Graphics	2nd Front USB 2.0	serial port	Chassis intrusion switch	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
10A6003EUS	4x5	i5-4590	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/28/14
10A6003DUS	4x5	i7-4790	4GBx1	1TB 7200 DVD±RW	7260 b/g/n	None	None	GT 620	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/28/14
10A6003GUS	4x5	i5-4590	4GBx1	1TB 7200 DVD±RW	7260 b/g/n	None	None	GT 620	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/28/14
10A6003AUS	4x5	i7-4790	4GBx1	500G 7200 DVD±RW	None	None	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/28/14
10A6003BUS	4x5	i7-4790	4GBx1	180G SSD DVD±RW	7260 b/g/n	None	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/28/14
10A6003FUS	4x5	i7-4790	8GBx1	1TB 7200 DVD±RW	7260 b/g/n	None	None	HD 8570	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/28/14
10A6003HUS	4x5	i5-4590	8GBx1	1TB 7200 DVD±RW	None	None	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/28/14
10A6003CUS	4x5	i7-4790	8GBx1	1TB 7200 DVD±RW	7260 b/g/n	None	None	HD 4600	None	None	None	vPro	None	Win7 P64 DG	Win8.1 10/28/14

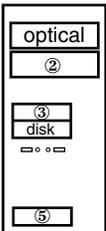
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> <i>Some: AMD Radeon HD 8570, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts; Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> <i>Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
DP dongle	None														
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide														
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support														
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None														
Media reader	<i>Some:</i> 29-in-1 media reader, internal USB 2.0														
Chipset	<b>Intel Q87 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	<i>Some:</i> 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2														
Bluetooth	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio (1.5 watt)														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk											<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> <b>ULE Gold</b> Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3											<b>Supports ThinkVantage Technologies</b>			
Limited Warranty	<b>3-years, limited onsite service.</b> 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information

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(MSS1T-5) October 2014

# ThinkCentre M93p Mini Tower (10A6) - GMP

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>8</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Additional Front USB 2.0	2nd serial port	Chassis intrusion switch	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10A60017US	4x5	i5-4570	2GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Switch	vPro	G P	Win7 Pro64	06/18/13
10A60018US	4x5	i7-4770	4GBx1	1TB 7200	DVD±RW	Intel 105	None	HD 8470	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A60019US	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	Intel 105	None	HD 4600	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	06/18/13
10A6001DUS	4x5	i5-4570	4GBx1	500G 7200	DVD	Intel 105	None	HD 4600	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	08/20/13
10A6001EUS	4x5	i7-4770	4GBx1	1TB 7200	DVD	Intel 105	None	HD 8470	USB	None	Switch	vPro	G P	Win7 Pro64 (DG)	08/20/13
10A6001FUS	4x5	i5-4570	2GBx1	500G 7200	DVD	None	None	HD 4600	None	None	Switch	vPro	G P	Win7 Pro64	08/20/13
10A6001SUS	4x5	i7-4770	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	USB	Serial	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A6001TUS	4x5	i5-4570	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	vPro	G P	Win7 Pro64 (DG)	11/12/13
10A6002SUS	4x5	i5-4590	2GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	Switch	vPro	G P	Win7 Pro64	06/10/14
10A6002YUS	4x5	i5-4590	4GBx1	500G 7200	DVD±RW	8723BE	None	HD 4600	None	None	Switch	vPro	G P	Win7 P64 DG Win8.1	07/08/14
10A60030US	4x5	i7-4790	4GBx1	1TB 7200	DVD±RW	8723BE	None	GT 620	None	None	Switch	vPro	G P	Win7 P64 DG Win8.1	07/08/14
Positioning	<i>Ultimate security, stability, and manageability for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)			
Memory	32GB max, <b>UDIMM, PC3-12800 1600MHz DDR3</b> , four 240-pin DIMM sockets											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)</i> Some: <b>AMD Radeon™ HD 8470</b> , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i> Some: <b>NVIDIA® Geforce® GT 620</b> , DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; <i>Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Intel Small Business Advantage</li> <li>Nitro Pro</li> </ul>			
Disk	SATA 6.0Gb/s 7200 rpm, 3.5" wide											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>One lock to secure both cover and entire system to fixed object:                             <ul style="list-style-type: none"> <li>-Padlock loop (in rear for opt padlock)</li> <li>-Security slot (in rear for optional Kensington® MicroSaver® cable)</li> </ul> </li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>Serial port I/O control</li> <li>Individual USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Optical	Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max <sup>4</sup> Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support											<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> <b>ULE Gold</b> Cisco EnergyWise compatible <b>GREENGUARD® certified</b> RoHS-compliant Supports ThinkVantage Technologies			
Onboard SATA	Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)														
eSATA port	None											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			
Media reader	None														
Chipset	<b>Intel Q87 Express Chipset</b>														
Front ports	Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)														
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1 Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter														
Bluetooth	High Definition (HD) Audio, Realtek® ALC662 codec														
Audio	Internal speaker for business audio (1.5 watt)														
Speaker	None														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Security chip	Trusted Platform Module (TPM1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>Mini Tower (25L), business black color, metal case</li> <li>(WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm</li> <li>24.69 lb (11.20 kg) in maximum configuration</li> <li>Toolless cover removal, adapter retention</li> <li>Toolless disk, optical drive removal</li> </ul>														
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk														
Slot	Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max) Slot 4: half-length, full-height, 32-bit PCI 2.3														
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available														

See footnotes for important warranty information



ThinkCentre M93z (Multi-touch) with Frame Stand and optional wireless keyboard and mouse



ThinkCentre M93z (Non-touch) with Monitor Stand and optional wireless keyboard and mouse



ThinkCentre M93z with Monitor Stand with optional PS/2 and Serial ports



ThinkCentre M93z with Frame Stand with optional PS/2 and Serial ports



Frame Stand  
(Adjustable between 10° and 45°)



Monitor Stand  
(Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°)

# ThinkCentre M93z (10AF) - TopSeller (1-year onsite)

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AF000JUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	Win7 Pro64	DG 08/20/13

● Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<i>Premium All-In-One PC for the enterprise</i>										
Processor	<b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</b>										
Implementation	Processor in LGA1150 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3*</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller										
Graphics	<b>Intel HD Graphics</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort)@60Hz</i>										
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector										
Light sensor	Optional ambient light sensor										
Multi-touch	None										
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off										
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button										
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable										
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar										
Media reader	Optional 11-in-1 media card reader										
Chipset	<b>Intel Q87 Express Chipset</b>										
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)										
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)										
ExpressCard	None										
mSATA	One mSATA slot										
PCIe Mini Card	One PCI Express® Mini Card slot										
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1										
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter										
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®										
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified										
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	150 watts, autosensing, 85% PSU										
Machine	<ul style="list-style-type: none"> <li>● Business black color</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul> <p><i>Non-touch model(s) with frame stand:</i></p> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm</li> <li>● 21.3 lb (9.68 kg) in maximum configuration</li> <li>● Adjustable stand (between 10° and 45°)</li> </ul> <p><i>Non-touch model(s) with monitor stand:</i></p> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>● 25.5 lb (11.58 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>										
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<p><b>Preloaded operating system</b></p> <p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><b>Ready to install applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <p><b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Device Experience</li> <li>● ThinkVantage AutoLock</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote</li> <li>● Intel AppUp</li> <li>● Lenovo Solutions for Small Business</li> <li>● Nitro Pro</li> </ul> <p><b>Security</b></p> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul> <p>EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>										

See footnotes for important warranty information  
US model(s) announced August 20, 2013

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(MPHS1-16) September 2013

# ThinkCentre M93z (10AF) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial PS/2 port	Chassis intrusion switch	Stand type	Keyboard/Mouse	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
10AF0003US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	DG 07/09/13
10AF0004US	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64	DG 07/09/13
10AF0005US	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	DG 07/09/13
10AF0006US	i5-4670S	4GBx1	2.0M	500G Hybrid	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	DG 07/09/13
10AF0007US	i5-4570S	4GBx1	2.0M	180G SSD	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64	DG 07/09/13
10AF0008US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	DG 07/09/13
10AF000KUS	i5-4570S	4GBx1	2.0M	128G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	DG 09/10/13
10AF000LUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64	DG 09/10/13
Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4670S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> </ul>				
Implementation	Processor in LGA1150 socket															
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)															
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort) @60Hz</i>															
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector															
Light sensor	Optional ambient light sensor															
Multi-touch	None															
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off															
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button															
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar															
Media reader	Optional 11-in-1 media card reader															
Chipset	<b>Intel Q87 Express Chipset</b>															
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified															
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)															
Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> <i>Non-touch model(s) with frame stand:</i> <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm</li> <li>• 21.3 lb (9.68 kg) in maximum configuration</li> <li>• Adjustable stand (between 10° and 45°)</li> </ul> <i>Non-touch model(s) with monitor stand:</i> <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>• 25.5 lb (11.58 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information  
US model(s) announced July 9, 2013 or September 10, 2013

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(MPHS1-10) September 2013

# ThinkCentre M93z (10AF) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)	
10AF000FUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000GUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000HUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AF000VUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	None	USB	vPro	None	Win7 Pro64 DG	11/12/13
10AF000WUS	i7-4770S	8GBx1	2.0M	256G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG	11/12/13
10AF0010US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG	Win8.1 01/21/14
10AF0011US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG	Win8.1 01/21/14
10AF001HUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG	Win8.1 12/09/14

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b> Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket	<b>Preloaded operating system</b> <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation		<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 3840x2160 (DisplayPort)@60Hz	<b>Preloaded applications</b> (only some listed)
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector	<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Lenovo Solutions for Small Business</li> <li>Nitro Pro</li> </ul>
Light sensor	Optional ambient light sensor	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off	
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button	
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar	
Media reader	Optional 11-in-1 media card reader	
Chipset	<b>Intel Q87 Express Chipset</b>	
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>Business black color</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul> <i>Non-touch model(s) with frame stand:</i> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm</li> <li>21.3 lb (9.68 kg) in maximum configuration</li> <li>Adjustable stand (between 10° and 45°)</li> </ul> <i>Non-touch model(s) with monitor stand:</i> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>25.5 lb (11.58 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>	<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>EPEAT™ Gold rating</b> <b>ENERGY STAR® 6.0-compliant</b> <b>TCO Certified Edge</b> <b>TUV Green Mark</b> <b>ULE Gold</b> <b>EuP 2013</b> <b>Cisco EnergyWise compatible</b> <b>GREENGUARD® certified</b> <b>RoHS-compliant</b> <b>Supports ThinkVantage Technologies</b> For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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(MPHS1-15) December 2014

# ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - 1-year onsite

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AD001HUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG 08/13/13
10AD001MUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG 08/20/13

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> Intel HD Graphics, 1333MHz DDR3 memory controller <b>Intel Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),</b> Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3*</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics</b> or <b>HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Max resolution:</i> 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]											<b>Preloaded applications</b> (only some listed)
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Intel AppUp</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> </ul>
Light sensor	Optional ambient light sensor											
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off											
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button											
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar											
Media reader	Optional 11-in-1 media card reader											
Chipset	<b>Intel Q87 Express Chipset</b>											
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											
ExpressCard	None											
mSATA	One mSATA slot											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified Intel Active Management Technology 9.0 (Intel AMT 9.0)											<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Intel AMT	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	150 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> Multi-touch model(s) with frame stand: <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>• 24.7 lb (11.22 kg) in maximum configuration</li> <li>• Adjustable stand (between 10° and 45°)</li> </ul> Multi-touch model(s) with monitor stand: <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>• 28.9 lb (13.12 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced August 13, 2013 or August 20, 2013

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(MPHS1-13) September 2013

# ThinkCentre M93z (10AD) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AD0001US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG 07/09/13
10AD0003US	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG 07/09/13
10AD0004US	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG 07/09/13
10AD0005US	i5-4570S	4GBx1	2.0M	500G Hybrid	HD 4600	N2230	None	None	None	None	Frame	USB	vPro	None	Win7 Pro64 DG 07/09/13
10AD0008US	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G	vPro	None	Win7 Pro64 DG 07/09/13
10AD0009US	i5-4570S	4GBx1	2.0M	180G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG 07/09/13
10AD001GUS	i5-4570S	4GBx1	2.0M	128G SSD	HD 4600	N2230	None	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG 08/13/13

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)			
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Lenovo Solutions for Small Business</li> <li>Nitro Pro</li> </ul>			
Light sensor	Optional ambient light sensor														
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off														
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button														
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar														
Media reader	Optional 11-in-1 media card reader														
Chipset	<b>Intel Q87 Express Chipset</b>														
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCIe Express® Mini Card slot														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											<b>Security</b>			
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> </ul>			
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											<ul style="list-style-type: none"> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black														
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>Business black color</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul> Multi-touch model(s) with frame stand: <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>24.7 lb (11.22 kg) in maximum configuration</li> <li>Adjustable stand (between 10° and 45°)</li> </ul> Multi-touch model(s) with monitor stand: <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>28.9 lb (13.12 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TÜV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies			
												For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US model(s) announced July 9, 2013 or August 13, 2013

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 (MPHS1-5) August 2013

# ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - II

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AD001JUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG 08/20/13
10AD001KUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG 08/20/13
10AD001LUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG 08/20/13
10AD0020US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	None	USB	vPro	None	Win7 Pro64 DG 11/12/13
10AD0021US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	None	USB	None	None	Win7 Pro64 DG 11/12/13
10AD0022US	i5-4570S	4GBx1	2.0M	256G SSD	HD 4600	N2230	Media	None	None	None	Monitor	USB	vPro	None	Win7 Pro64 DG 11/12/13

● Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)			
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Lenovo Solutions for Small Business</li> <li>Nitro Pro</li> </ul>			
Light sensor	Optional ambient light sensor														
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off														
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button														
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar														
Media reader	Optional 11-in-1 media card reader														
Chipset	<b>Intel Q87 Express Chipset</b>														
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2											<b>Security</b>			
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>			
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>Business black color</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul> <i>Multi-touch model(s) with frame stand:</i> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>24.7 lb (11.22 kg) in maximum configuration</li> <li>Adjustable stand (between 10° and 45°)</li> </ul> <i>Multi-touch model(s) with monitor stand:</i> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>28.9 lb (13.12 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
 US model(s) announced August 20, 2013 or November 12, 2013

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 (MPHS1-12) November 2013

# ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - III

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AD0024US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1 01/21/14
10AD0025US	i7-4770S	4GBx1	2.0M	500G Hybrid	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1 01/21/14
10AD0026US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1 01/21/14
10AD0027US	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N7260	None	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1 01/21/14

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager
Implementation	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Device Experience • ThinkVantage AutoLock • Desktop Power Manager • View Management Utility • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Microsoft Office preloaded; purchase a product key to activate • Cyberlink PowerDVD (DVD±RW, DVD) • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Evernote • Intel AppUp • Lenovo Solutions for Small Business • Nitro Pro
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i> <b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector											
Display	Optional ambient light sensor Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off											
Light sensor	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button											
Multi-touch	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide											
Camera	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar Optional 11-in-1 media card reader											
Controls	<b>Intel Q87 Express Chipset</b>											
Disk	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Optical	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											
Onboard SATA	None											
Media reader	One mSATA slot One PCI Express® Mini Card slot Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2											
Chipset	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN® High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified Intel Active Management Technology 9.0 (Intel AMT 9.0) Trusted Platform Module (TPM 1.2-compliant)											
Rear ports	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											
Side ports	Enhanced Optical USB Mouse, black, Lenovo logo											
ExpressCard	150 watts, autosensing, 85% PSU											
mSATA	• Business black color • Toolless back cover, stand removal • Toolless disk, optical drive, memory removal • Support VESA mount (100mm) <i>Multi-touch model(s) with frame stand:</i> • (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm • 24.7 lb (11.22 kg) in maximum configuration • Adjustable stand (between 10° and 45°) <i>Multi-touch model(s) with monitor stand:</i> • (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm • 28.9 lb (13.12 kg) in maximum configuration • Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°											
PCIe Mini Card	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant											
PCIe WLAN	Supports ThinkVantage Technologies											
Bluetooth	For compatible accessories, please go to TC-AQP sheet;											
Ethernet	For Lenovo service upgrade options, please go to S-TC sheet											
Audio support	Limited Warranty <b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											
Intel AMT												
Security chip												
Keyboard												
Mouse												
Power supply												
Machine												

See footnotes for important warranty information  
US model(s) announced January 21, 2014

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(MPHS1-18) January 2014

# ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - IV

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB	rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/yy)	
10AD002LUS	i3-4150	4GBx1	2.0M	500G	7200	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG	Win8.1 10/14
10AD002GUS	i5-4590S	4GBx1	2.0M	1TB	7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG	Win8.1 10/14
10AD002RUS	i7-4790S	8GBx1	2.0M	1TB	7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG	Win8.1 10/14
10AD002PUS	i7-4790S	4GBx1	2.0M	500G	7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG	Win8.1 10/14
10AD002NUS	i3-4150	4GBx1	2.0M	180G	SSD	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG	Win8.1 10/14
10AD002MUS	i3-4150	4GBx1	2.0M	500G	7200	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG	Win8.1 10/14
10AD002SUS	i7-4790S	4GBx1	2.0M	180G	SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG	Win8.1 10/14
10AD002QUS	i7-4790S	8GBx1	2.0M	256G	SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG	Win8.1 10/14
10AD002KUS	i5-4590S	4GBx1	2.0M	500G	7200	HD 4600	N7260	None	Sensor	None	None	Frame	USB	vPro	None	Win7 P64 DG	Win8.1 10/14
10AD002HUS	i5-4590S	8GBx1	2.0M	256G	SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG	Win8.1 10/14

Positioning	<i>Premium All-In-One PC for the enterprise</i>	<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Lenovo Solutions for Small Business</li> <li>Nitro Pro</li> </ul>
Processor	Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Intel Core i7-4790S Processor (4 cores / 8 threads, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller	
Implementation	Processor in LGA1150 socket	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i>	
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector	
Light sensor	Optional ambient light sensor	
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off	
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button	
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar	
Media reader	Optional 11-in-1 media card reader	
Chipset	<b>Intel Q87 Express Chipset</b>	
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>Business black color</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul> <b>Multi-touch model(s) with frame stand:</b> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>24.7 lb (11.22 kg) in maximum configuration</li> <li>Adjustable stand (between 10° and 45°)</li> </ul> <b>Multi-touch model(s) with monitor stand:</b> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>28.9 lb (13.12 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	
	<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet	

See footnotes for important warranty information

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(MPHS1-19) October 2014

# ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - V

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCle Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/yy)
10AD002FUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1 10/14
10AD002JUS	i5-4590S	4GBx1	2.0M	180G SSD	HD 4600	N7260	None	Sensor	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1 10/14

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790S Processor (4 cores / 8 threads, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector											<ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Lenovo Solutions for Small Business</li> <li>Nitro Pro</li> </ul>
Light sensor	Optional ambient light sensor											
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off											
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button											
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar											
Media reader	Optional 11-in-1 media card reader											
Chipset	<b>Intel Q87 Express Chipset</b>											
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											
ExpressCard	None											
mSATA	One mSATA slot											
PCle Mini Card	One PCI Express® Mini Card slot											
PCle WLAN	<i>Some:</i> 11b/g/n wireless, PCle Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<b>Security</b>
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											<ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	150 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>Business black color</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul> <b>Multi-touch model(s) with frame stand:</b> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>24.7 lb (11.22 kg) in maximum configuration</li> <li>Adjustable stand (between 10° and 45°)</li> </ul> <b>Multi-touch model(s) with monitor stand:</b> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>28.9 lb (13.12 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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(MPHS1-20) October 2014

# ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AD0002US	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	None	None	None	Monitor	2.4G vPro	None	Win8 Pro64	07/09/13
10AD0006US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N2230	Media	None	None	None	Frame	2.4G vPro	None	Win8 Pro64	07/09/13
10AD0007US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G vPro	None	Win8 Pro64	07/09/13
10AD001DUS	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	None	Monitor	USB vPro	None	Win8 Pro64	07/23/13
10AD001EUS	i5-4670S	4GBx1	2.0M	1TB 7200	HD 4600	N2230	Media	None	None	None	Monitor	USB vPro	None	Win8 Pro64	07/23/13
10AD001FUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	Sensor	None	None	Monitor	USB vPro	None	Win8 Pro64	07/23/13
10AD001NUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	Media	None	None	None	Monitor	USB	None	Win8 Pro64	08/20/13
Positioning Processor	<p><i>Premium All-In-One PC for the enterprise</i>  <b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b>  <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>  <b>Intel Core i5-4670S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>  <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>                      Processor in LGA1150 socket</p>											<p><b>Preloaded operating system</b>                      Windows® 8 Pro 64-bit</p> <p><b>Web install applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Password Manager</li> </ul> <p><b>Preloaded applications</b> (only some listed)</p> <ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote®</li> <li>• Intel AppUp</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> <li>• AccuWeather</li> <li>• Norton™ Studio</li> </ul>			
Implementation	Processor in LGA1150 socket														
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)														
Graphics	<p><b>Intel HD Graphics 4400 or 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display;  <i>Maximum resolution: 3840x2160 (DisplayPort) @60Hz</i>  <b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b>, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector</p>														
Display	<p>Optional ambient light sensor                      Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch                      Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off</p>														
Light sensor	Optional ambient light sensor														
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off														
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button														
Disk	<p><i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm  <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</p>														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar														
Media reader	Optional 11-in-1 media card reader														
Chipset	<b>Intel Q87 Express Chipset</b>														
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	<p><i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2  <i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2</p>														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Audio support	<p>High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified                      Intel Active Management Technology 9.0 (Intel AMT 9.0)                      Trusted Platform Module (TPM 1.2-compliant)</p>														
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	<p><i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo  <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p>														
Mouse	<p><i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo  <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> <p><i>Multi-touch model(s) with frame stand:</i></p> <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>• 24.7 lb (11.22 kg) in maximum configuration</li> <li>• Adjustable stand (between 10° and 45°)</li> </ul> <p><i>Multi-touch model(s) with monitor stand:</i></p> <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>• 28.9 lb (13.12 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											<p>EPEAT™ Gold rating                      ENERGY STAR® 6.0-compliant                      TCO Certified Edge                      TUV Green Mark                      ULE Gold                      EuP 2013                      Cisco EnergyWise compatible                      GREENGUARD® certified                      RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to TC-AQP sheet;                      For Lenovo service upgrade options, please go to S-TC sheet</p>			
Limited Warranty	<p><b>3-years, limited onsite service</b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>														

See footnotes for important warranty information  
 US model(s) announced July 9, 2013, July 23, 2013, August 20, 2013

# ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8.1

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)	
10AD0028US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	None	Frame	USB	vPro	None	Win8.1 Pro64	01/21/14
10AD0029US	i5-4670S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	None	Monitor	USB	vPro	None	Win8.1 Pro64	01/21/14

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4670S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Windows® 8.1 Pro 64-bit			
Implementation	Processor in LGA1150 socket											<b>Web install applications</b> (only some listed)			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Password Manager</li> </ul>			
Graphics	<b>Intel HD Graphics 4400 or 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)			
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote®</li> <li>• Intel AppUp</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> <li>• AccuWeather</li> <li>• Norton™ Studio</li> <li>• Pokki</li> <li>• Hightail</li> </ul>			
Light sensor	Optional ambient light sensor														
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off														
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button														
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar														
Media reader	Optional 11-in-1 media card reader														
Chipset	<b>Intel Q87 Express Chipset</b>														
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2														
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)											<b>Security</b>			
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black											<ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• <i>Chassis intrusion switch on selected model(s)</i></li> </ul>			
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> Multi-touch model(s) with frame stand: <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>• 24.7 lb (11.22 kg) in maximum configuration</li> <li>• Adjustable stand (between 10° and 45°)</li> </ul> Multi-touch model(s) with monitor stand: <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>• 28.9 lb (13.12 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies  For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

# ThinkCentre M93z (10AE)

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	PCle Mini Card Graphics	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AE000FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600 N2230	None	None	None	None	Monitor	USB vPro	None	Win7 Pro64 DG	07/09/13
10AE000GUS	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600 N6235	Media	None	None	None	Monitor	USB vPro	None	Win7 Pro64 DG	07/09/13
10AE000HUS	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600 N2230	None	None	None	None	Frame	USB	None	Win7 Pro64 DG	07/09/13
10AE000YUS	i5-4570S	4GBx1	2.0M	500G Hybrid	HD 4600 N2230	Media	None	None	None	Frame	USB vPro	None	Win7 Pro64 DG	07/09/13

●3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>										<b>Preloaded operating system</b>			
Processor	<b>Intel® Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1150 socket										Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>			
Implementation	Processor in LGA1150 socket										<b>Preloaded applications (only some listed)</b>			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Device Experience</li> <li>● ThinkVantage AutoLock</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote</li> <li>● Intel AppUp</li> <li>● Lenovo Solutions for Small Business</li> <li>● Nitro Pro</li> </ul>			
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i>													
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector													
Light sensor	Optional ambient light sensor													
Multi-touch	None													
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off													
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button													
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide													
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable													
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar													
Media reader	Optional 11-in-1 media card reader													
Chipset	<b>Intel Q87 Express Chipset</b>													
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)													
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)													
ExpressCard	None													
mSATA	One mSATA slot													
PCle Mini Card	One PCI Express® Mini Card slot													
PCle WLAN	<i>Some:</i> 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11a/b/g/n wireless, PCle Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2													
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter										<b>Security</b>			
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®										<ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> </ul>			
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified Intel Active Management Technology 9.0 (Intel AMT 9.0)										<ul style="list-style-type: none"> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
Intel AMT	Trusted Platform Module (TPM 1.2-compliant)													
Security chip														
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo													
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo													
Power supply	150 watts, autosensing, 85% PSU													
Machine	<ul style="list-style-type: none"> <li>● Business black color</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul> Non-touch model(s) with frame stand: <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm</li> <li>● 21.3 lb (9.68 kg) in maximum configuration</li> <li>● Adjustable stand (between 10° and 45°)</li> </ul> Non-touch model(s) with monitor stand: <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>● 25.5 lb (11.58 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>										EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
US model(s) announced July 9, 2013

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(MPHS1-7) July 2013

# ThinkCentre M93z (10AE) - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)	
10AE001GUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8	08/20/13
10AE001HUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8	08/20/13
10AE001JUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8	08/20/13
10AE002TUS	i5-4590S	4GBx1	2.0M	256G SSD	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/06/15
10AE002UUS	i7-4790S	8GBx1	2.0M	1TB 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/06/15
10AE002SUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Frame	USB	vPro	None	Win7 P64 DG Win8.1	01/06/15
10AE002RUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	01/06/15
Positioning Processor	<p><i>Premium All-In-One PC for the enterprise</i>  <b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b>                      Intel HD Graphics, 1333MHz DDR3 memory controller  <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b>                      Intel HD Graphics 4400, 1600MHz DDR3 memory controller  <b>Intel Core i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),</b>                      Intel HD Graphics 4400, 1600MHz DDR3 memory controller  <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),</b>                      Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller  <b>Intel Core i7-4790S Processor (4 cores / 8 threads, 3.2GHz, 8MB cache),</b>                      Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller                      Processor in LGA1150 socket</p>											<p><b>Preloaded operating system</b>                      Windows® 7 Professional 64                      preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit  <b>Ready to install applications</b> (only some listed)                      • Rescue and Recovery™                      • Password Manager  <b>Preloaded applications</b> (only some listed)                      • ThinkVantage® Product Recovery                      • ThinkVantage System Update                      • ThinkVantage Communication Utility                      • ThinkVantage Device Experience                      • ThinkVantage AutoLock                      • Desktop Power Manager                      • View Management Utility                      • Lenovo Cloud Storage by SugarSync                      • Lenovo Solution Center                      • Lenovo Message Center Plus                      • Norton™ Internet Security (30 days of virus definitions)                      • Adobe® Reader®                      • Skype™                      • Microsoft Office preloaded; purchase a product key to activate                      • Cyberlink Power2Go (DVD±RW, DVD)                      • Cyberlink Power2Go (DVD±RW)                      • Cyberlink PowerProducer (DVD±RW)                      • Evernote                      • Intel AppUp                      • Lenovo Solutions for Small Business                      • Nitro Pro</p>				
Implementation	Processor in LGA1150 socket															
Memory	16GB max, <b>PC3-12800 1600MHz DDR3*</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller															
Graphics	<b>Intel HD Graphics</b> or <b>HD Graphics 4400</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Max resolution: 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]															
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector															
Light sensor	Optional ambient light sensor															
Multi-touch	None															
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off															
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button															
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar Optional 11-in-1 media card reader															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar															
Media reader	Optional 11-in-1 media card reader															
Chipset	<b>Intel Q87 Express Chipset</b>															
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + BT, 2x2 Some: 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified															
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)															
Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> Non-touch model(s) with frame stand: <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm</li> <li>• 21.3 lb (9.68 kg) in maximum configuration</li> <li>• Adjustable stand (between 10° and 45°)</li> </ul> Non-touch model(s) with monitor stand: <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>• 25.5 lb (11.58 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

# ThinkCentre M93z (10AE) - GMP

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AE001FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	07/09/13
10AE001DUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8	07/09/13
10AE0022US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	02/25/14
10AE002GUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	06/10/14
10AE002LUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 ac	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	07/08/14
10AE002MUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	07/08/14
10AE002VUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	None	None	None	None	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	12/09/14
Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1150 socket											Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit				
Implementation												<b>Ready to install applications</b> (only some listed)				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>				
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort) @60Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Lenovo Solutions for Small Business</li> <li>Nitro Pro</li> </ul>				
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector															
Light sensor	Optional ambient light sensor															
Multi-touch	None															
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off															
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button															
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar															
Media reader	Optional 11-in-1 media card reader															
Chipset	<b>Intel Q87 Express Chipset</b>															
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified Intel Active Management Technology 9.0 (Intel AMT 9.0)											<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>				
Intel AMT Security chip	Trusted Platform Module (TPM 1.2-compliant)															
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>Business black color</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul> Non-touch model(s) with frame stand: <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm</li> <li>21.3 lb (9.68 kg) in maximum configuration</li> <li>Adjustable stand (between 10° and 45°)</li> </ul> Non-touch model(s) with monitor stand: <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>25.5 lb (11.58 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

# ThinkCentre M93z (10AE) - GMP (Windows 8/8.1)

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AE001EUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8 Pro64	07/09/13
10AE0023US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8.1 Pro64	02/25/14

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>	<b>Preloaded operating system</b> <i>Some:</i> Windows® 8 Pro 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1150 socket	
Implementation		<b>Web install applications</b> (only some listed) ● Password Manager <b>Preloaded applications</b> (only some listed) ● ThinkVantage System Update ● ThinkVantage AutoLock ● Desktop Power Manager ● View Management Utility (for Windows 8 only) ● Lenovo Cloud Storage by SugarSync (for Windows 8 only) ● Lenovo Solution Center ● Lenovo Support ● Lenovo Companion ● Norton Internet Security (30 days of virus definitions) ● Skype™ ● Microsoft Office preloaded; purchase a product key to activate ● Cyberlink PowerDVD (DVD±RW, DVD) ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) ● Evernote® ● Intel AppUp ● Lenovo Solutions for Small Business ● Nitro Pro ● AccuWeather ● Norton™ Studio ● Pokki (for Windows 8.1 only) ● Hightail (for Windows 8.1 only)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 3840x2160 (DisplayPort) @60Hz	
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector	
Light sensor	Optional ambient light sensor	
Multi-touch	None	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off	
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button	
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar	
Media reader	Optional 11-in-1 media card reader	
Chipset	<b>Intel Q87 Express Chipset</b>	
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>● Business black color</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul> <i>Non-touch model(s) with frame stand:</i> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm</li> <li>● 21.3 lb (9.68 kg) in maximum configuration</li> <li>● Adjustable stand (between 10° and 45°)</li> </ul> <i>Non-touch model(s) with monitor stand:</i> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>● 25.5 lb (11.58 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced July 9, 2013 or February 25, 2014

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(MPHS1-9) February 2013

# ThinkCentre M93z (10AC) - Multi-touch

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AC000GUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Monitor	USB vPro	None	Win7 Pro64 DG	07/09/13
10AC000HUS	i7-4770S	4GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	None	None	None	Monitor	USB vPro	None	Win7 Pro64 DG	07/09/13
10AC000JUS	i5-4430S	4GBx1	2.0M	500G 7200	HD 4600	N2230	None	None	None	None	Frame	USB	None	Win7 Pro64 DG	07/09/13
10AC0011US	i7-4770S	8GBx1	2.0M	500G Hybrid	HD 4600	N2230	Media	None	None	None	Monitor	2.4G vPro	None	Win7 Pro64 DG	07/09/13

●3-year limited warranty

Positioning Processor	<p><i>Premium All-In-One PC for the enterprise</i></p> <p><b>Intel® Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p><b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b></p> <p>Processor in LGA1150 socket</p>											<p><b>Preloaded operating system</b></p> <p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p><b>Ready to install applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul> <p><b>Preloaded applications (only some listed)</b></p> <ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Device Experience</li> <li>● ThinkVantage AutoLock</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote</li> <li>● Intel AppUp</li> <li>● Lenovo Solutions for Small Business</li> <li>● Nitro Pro</li> </ul>
Implementation												
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											
Graphics	<p><b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display;</p> <p><i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i></p> <p><b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b>, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector</p>											
Display												
Light sensor	Optional ambient light sensor											
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off											
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button											
Disk	<p><i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm</p> <p><i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</p>											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar											
Media reader	Optional 11-in-1 media card reader											
Chipset	<b>Intel Q87 Express Chipset</b>											
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											
ExpressCard	None											
mSATA	One mSATA slot											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	<p><i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</p> <p><i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2</p>											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											
Audio support	<p>High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified</p> <p>Intel Active Management Technology 9.0 (Intel AMT 9.0)</p>											
Intel AMT												
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	<p><i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo</p> <p><i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p>											
Mouse	<p><i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo</p> <p><i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>											
Power supply	150 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>● Business black color</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul> <p><i>Multi-touch model(s) with frame stand:</i></p> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>● 24.7 lb (11.22 kg) in maximum configuration</li> <li>● Adjustable stand (between 10° and 45°)</li> </ul> <p><i>Multi-touch model(s) with monitor stand:</i></p> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>● 28.9 lb (13.12 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											<p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 6.0-compliant</p> <p>TCO Certified Edge</p> <p>TUV Green Mark</p> <p>ULE Gold</p> <p>EuP 2013</p> <p>Cisco EnergyWise compatible</p> <p>GREENGUARD® certified</p> <p>RoHS-compliant</p>
Limited Warranty	<p><b>3-years, limited onsite service</b>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>											<p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to TC-AQP sheet;</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>

See footnotes for important warranty information  
US model(s) announced July 9, 2013

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(MPHS1-1) July 2013

# ThinkCentre M93z (10AC) - Multi-touch - II

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)	
10AC001JUS	i3-4130	4GBx1	2.0M	500G 7200	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AC001KUS	i3-4130	4GBx1	2.0M	500G Hybrid	HD 4400	N2230	None	None	None	None	Monitor	USB	None	None	Win7 Pro64 DG	08/20/13
10AC001LUS	G3220	4GBx1	2.0M	500G 7200	Intel HD	N105	None	None	None	None	Frame	USB	None	None	Win7 Pro64 DG	08/20/13

●3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>			
Processor	<b>Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache),</b> integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> integrated Intel HD Graphics 4400, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed)			
Implementation	Processor in LGA1150 socket											<ul style="list-style-type: none"> <li>● Rescue and Recovery™</li> <li>● Password Manager</li> </ul>			
Memory	16GB max, <b>PC3-12800 1600MHz DDR3*</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller											<b>Preloaded applications</b> (only some listed)			
Graphics	<b>Intel HD Graphics or HD Graphics 4400</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Max resolution: 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]</i>											<ul style="list-style-type: none"> <li>● ThinkVantage® Product Recovery</li> <li>● ThinkVantage System Update</li> <li>● ThinkVantage Communication Utility</li> <li>● ThinkVantage Device Experience</li> <li>● ThinkVantage AutoLock</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Message Center Plus</li> <li>● Norton™ Internet Security (30 days of virus definitions)</li> <li>● Adobe® Reader®</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote</li> <li>● Intel AppUp</li> <li>● Lenovo Solutions for Small Business</li> <li>● Nitro Pro</li> </ul>			
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector														
Light sensor	Optional ambient light sensor														
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch														
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off														
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button														
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide														
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable														
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar														
Media reader	Optional 11-in-1 media card reader														
Chipset	<b>Intel Q87 Express Chipset</b>														
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)														
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)														
ExpressCard	None														
mSATA	One mSATA slot														
PCIe Mini Card	One PCI Express® Mini Card slot														
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul>			
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter														
Ethernet	One gigabit ethernet port, Intel i217-LM (Clarkville), Wake on LAN®														
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified														
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	150 watts, autosensing, 85% PSU														
Machine	<ul style="list-style-type: none"> <li>● Business black color</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul> <b>Multi-touch model(s) with frame stand:</b> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>● 24.7 lb (11.22 kg) in maximum configuration</li> <li>● Adjustable stand (between 10° and 45°)</li> </ul> <b>Multi-touch model(s) with monitor stand:</b> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>● 28.9 lb (13.12 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant			
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet			

See footnotes for important warranty information  
US model(s) announced August 20, 2013

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(MPHS1-11) September 2013

# ThinkCentre M93z (10AC) - Multi-touch - III

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/Mouse	Intel vPro	Global	Preload	Ann date (mm/dd/yy)
10AC003FUS	i3-4150	8GBx1	2.0M	256G SSD	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003HUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003DUS	i3-4150	4GBx1	2.0M	500G 7200	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC0038US	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC003GUS	i3-4150	8GBx1	2.0M	256G SSD	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003AUS	i5-4590S	4GBx1	2.0M	180G SSD	HD 4600	N7260	Media	Sensor	None	None	Frame	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC003JUS	i3-4150	4GBx1	2.0M	180G SSD	HD 4400	N7260	Media	None	None	None	Frame	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003CUS	i7-4790S	8GBx1	2.0M	256G SSD	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC0039US	i5-4590S	8GBx1	2.0M	256G SSD	HD 4600	N7260	Media	Sensor	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC003EUS	i3-4150	4GBx1	2.0M	180G SSD	HD 4400	N7260	Media	None	None	None	Monitor	USB	None	None	Win7 P64 DG Win8.1	10/14/14
10AC003BUS	i7-4790S	4GBx1	2.0M	500G 7200	HD 4600	N7260	None	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	10/14/14
10AC003KUS	i7-4790S	8GBx1	2.0M	1TB 7200	HD 4600	N7260	Media	None	None	None	Monitor	USB	vPro	None	Win7 P64 DG Win8.1	01/06/15

Positioning Processor	<i>Premium All-In-One PC for the enterprise</i> <b>Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i7-4790S Processor (4 cores / 8 threads, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>	<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications (only some listed)</b> • Rescue and Recovery™ • Password Manager
Implementation	Processor in LGA1150 socket	<b>Preloaded applications (only some listed)</b> • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Device Experience • ThinkVantage AutoLock • Desktop Power Manager • View Management Utility • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Microsoft Office preloaded; purchase a product key to activate • Cyberlink PowerDVD (DVD±RW, DVD) • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Evernote • Intel AppUp • Lenovo Solutions for Small Business • Nitro Pro
Memory	16GB max, <b>PC3-12800 1600MHz DDR3*</b> , two 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller	
Graphics	<b>Intel HD Graphics 4400</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Max resolution: 3840x2160 (DP)@60Hz [HD 4x00]; 2560x1600 (DP)@60Hz [Intel HD]</i>	
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector Optional ambient light sensor	
Light sensor	Optional ambient light sensor	
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off	
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button	
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar	
Media reader	Optional 11-in-1 media card reader	
Chipset	<b>Intel Q87 Express Chipset</b>	
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Toolless back cover, stand removal</li> <li>• Toolless disk, optical drive, memory removal</li> <li>• Support VESA mount (100mm)</li> </ul> <i>Multi-touch model(s) with frame stand:</i> <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>• 24.7 lb (11.22 kg) in maximum configuration</li> <li>• Adjustable stand (between 10° and 45°)</li> </ul> <i>Multi-touch model(s) with monitor stand:</i> <ul style="list-style-type: none"> <li>• (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>• 28.9 lb (13.12 kg) in maximum configuration</li> <li>• Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>	<b>Security</b> <ul style="list-style-type: none"> <li>• Security chip (see information on left)</li> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> <li>• Chassis intrusion switch on selected model(s)</li> </ul>
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

# ThinkCentre M93z (10AC) - Multi-touch (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro Global	Preload	Ann date (mm/dd/yy)
10AC0010US	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	None	None	None	Monitor	2.4G vPro	None	Win8 Pro64	07/09/13
10AC001HUS	i7-4770S	8GBx1	2.0M	1TB 7200	HD 4600	N6235	Media	Sensor	None	None	Monitor	USB vPro	None	Win8 Pro64	08/13/13

●3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1150 socket											Windows® 8 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Web install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>● Password Manager</li> </ul>
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort)@60Hz</i>											<b>Preloaded applications</b> (only some listed)
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector											<ul style="list-style-type: none"> <li>● ThinkVantage System Update</li> <li>● ThinkVantage AutoLock</li> <li>● Desktop Power Manager</li> <li>● View Management Utility</li> <li>● Lenovo Cloud Storage by SugarSync</li> <li>● Lenovo Solution Center</li> <li>● Lenovo Support</li> <li>● Lenovo Companion</li> <li>● Norton Internet Security (30 days of virus definitions)</li> <li>● Skype™</li> <li>● Microsoft Office preloaded; purchase a product key to activate</li> <li>● Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>● Cyberlink Power2Go (DVD±RW)</li> <li>● Cyberlink PowerProducer (DVD±RW)</li> <li>● Evernote®</li> <li>● Intel AppUp</li> <li>● Lenovo Solutions for Small Business</li> <li>● Nitro Pro</li> <li>● AccuWeather</li> <li>● Norton™ Studio</li> </ul>
Light sensor	Optional ambient light sensor											
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off											
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button											
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar											
Media reader	Optional 11-in-1 media card reader											
Chipset	<b>Intel Q87 Express Chipset</b>											
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)											
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)											
ExpressCard	None											
mSATA	One mSATA slot											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	<i>Some:</i> 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											
Intel AMT	Intel Active Management Technology 9.0 (Intel AMT 9.0)											
Security chip	Trusted Platform Module (TPM 1.2-compliant)											
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black											
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black											
Power supply	150 watts, autosensing, 85% PSU											
Machine	<ul style="list-style-type: none"> <li>● Business black color</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul> <i>Multi-touch model(s) with frame stand:</i> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>● 24.7 lb (11.22 kg) in maximum configuration</li> <li>● Adjustable stand (between 10° and 45°)</li> </ul> <i>Multi-touch model(s) with monitor stand:</i> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>● 28.9 lb (13.12 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced July 9, 2013 or August 13, 2013

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(MPHS1-2) August 2013

# ThinkCentre M93z (10AC) - Multi-touch (GMP)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory <sup>8</sup>	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AC001GUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	07/09/13
10AC001EUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N6235	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8	07/09/13
10AC002CUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	02/25/14
10AC002YUS	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	06/10/14
10AC0031US	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 ac	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 P64 DG Win8.1	07/08/14
10AC0033US	i5-4590S	4GBx1	2.0M	500G 7200	HD 4600	7260 b/g/n	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win7 Pro64	07/08/14

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>				
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> <b>Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1150 socket											Some: Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit				
Implementation												<b>Ready to install applications</b> (only some listed)				
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul>				
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution: 3840x2160 (DisplayPort) @60Hz</i>											<b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Cloud Storage by SugarSync</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote</li> <li>Intel AppUp</li> <li>Lenovo Solutions for Small Business</li> <li>Nitro Pro</li> </ul>				
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector															
Light sensor	Optional ambient light sensor															
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch															
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off															
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button															
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm															
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable															
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar															
Media reader	Optional 11-in-1 media card reader															
Chipset	<b>Intel Q87 Express Chipset</b>															
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)															
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)															
ExpressCard	None															
mSATA	One mSATA slot															
PCIe Mini Card	One PCI Express® Mini Card slot															
PCIe WLAN	Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2															
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter															
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®															
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified Intel Active Management Technology 9.0 (Intel AMT 9.0)															
Intel AMT	Trusted Platform Module (TPM 1.2-compliant)															
Security chip												<b>Security</b> <ul style="list-style-type: none"> <li>Security chip (see information on left)</li> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> <li>Chassis intrusion switch on selected model(s)</li> </ul>				
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo															
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo															
Power supply	150 watts, autosensing, 85% PSU															
Machine	<ul style="list-style-type: none"> <li>Business black color</li> <li>Toolless back cover, stand removal</li> <li>Toolless disk, optical drive, memory removal</li> <li>Support VESA mount (100mm)</li> </ul> <b>Multi-touch model(s) with frame stand:</b> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>24.7 lb (11.22 kg) in maximum configuration</li> <li>Adjustable stand (between 10° and 45°)</li> </ul> <b>Multi-touch model(s) with monitor stand:</b> <ul style="list-style-type: none"> <li>(WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>28.9 lb (13.12 kg) in maximum configuration</li> <li>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>											EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies				
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet				

See footnotes for important warranty information

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(MPHS1-3) July 2014

# ThinkCentre M93z (10AC) - Multi-touch (GMP) - Windows 8/8.1

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory	Camera (mega-pixel)	Disk SATA GB rpm	Graphics	PCIe Mini Card WLAN	Media reader	Light sensor	Serial & PS/2 port	Chassis intrusion switch	Stand type	Key-board/ Mouse	Intel vPro	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
10AC001FUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N2230	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8 Pro64	07/09/13
10AC002DUS	i5-4570S	4GBx1	2.0M	500G 7200	HD 4600	N7260	Media	Sensor	None	Switch	Monitor	USB	vPro	G P	Win8.1 Pro64	02/25/14

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>	<b>Preloaded operating system</b> <i>Some:</i> Windows® 8 Pro 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</b> Processor in LGA1150 socket	
Implementation		<b>Web install applications</b> (only some listed) ● Password Manager <b>Preloaded applications</b> (only some listed) ● ThinkVantage System Update ● ThinkVantage AutoLock ● Desktop Power Manager ● View Management Utility (for Windows 8 only) ● Lenovo Cloud Storage by SugarSync (for Windows 8 only) ● Lenovo Solution Center ● Lenovo Support ● Lenovo Companion ● Norton Internet Security (30 days of virus definitions) ● Skype™ ● Microsoft Office preloaded; purchase a product key to activate ● Cyberlink PowerDVD (DVD±RW, DVD) ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) ● Evernote® ● Intel AppUp ● Lenovo Solutions for Small Business ● Nitro Pro ● AccuWeather ● Norton™ Studio ● Pokki (for Windows 8.1 only) ● Hightail (for Windows 8.1 only)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)	
Graphics	<b>Intel HD Graphics 4600</b> in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 3840x2160 (DisplayPort) @60Hz	
Display	<b>23.0"</b> (584.2mm) <b>Full HD 1080p (1920x1080) TFT color</b> , IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector	
Light sensor	Optional ambient light sensor	
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off	
Controls	Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button	
Disk	<i>Some:</i> SATA 6.0Gb/s, 3.5" Wide, 7200 rpm	
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable	
Onboard SATA	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar	
Media reader	Optional 11-in-1 media card reader	
Chipset	<b>Intel Q87 Express Chipset</b>	
Rear ports	Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)	
Side ports	Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)	
ExpressCard	None	
mSATA	One mSATA slot	
PCIe Mini Card	One PCI Express® Mini Card slot	
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2	
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter	
Ethernet	One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®	
Audio support	High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified	
Intel AMT Security chip	Intel Active Management Technology 9.0 (Intel AMT 9.0) Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	150 watts, autosensing, 85% PSU	
Machine	<ul style="list-style-type: none"> <li>● Business black color</li> <li>● Toolless back cover, stand removal</li> <li>● Toolless disk, optical drive, memory removal</li> <li>● Support VESA mount (100mm)</li> </ul> <i>Multi-touch model(s) with frame stand:</i> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm</li> <li>● 24.7 lb (11.22 kg) in maximum configuration</li> <li>● Adjustable stand (between 10° and 45°)</li> </ul> <i>Multi-touch model(s) with monitor stand:</i> <ul style="list-style-type: none"> <li>● (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm</li> <li>● 28.9 lb (13.12 kg) in maximum configuration</li> <li>● Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</li> </ul>	
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	<b>Security</b> <ul style="list-style-type: none"> <li>● Security chip (see information on left)</li> <li>● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>● Power-on password</li> <li>● Administrator password</li> <li>● Hard disk password</li> <li>● Boot sequence control</li> <li>● Boot without keyboard and mouse</li> <li>● USB port disablement</li> <li>● Chassis intrusion switch on selected model(s)</li> </ul> EPEAT™ Gold rating ENERGY STAR® 6.0-compliant TCO Certified Edge TUV Green Mark ULE Gold EuP 2013 Cisco EnergyWise compatible GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced July 9, 2013 or February 25, 2104

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ThinkCentre Edge 62z



Lenovo ThinkCentre Edge 62z with Frame Stand



Lenovo ThinkCentre Edge 62z with Frame Stand



Lenovo ThinkCentre Edge 62z with Frame Stand



Handle



Lenovo ThinkCentre Edge 62z with Frame Stand



Lenovo ThinkCentre Edge 62z with Frame Stand

# ThinkCentre Edge 62z (2117) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Camera	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Stand type	Global	Preload	Ann date (mm/dd/yy)
2117-BBU	i3-3220	4GBx1 1600MHz	720p	500G 7200	DVD±RW	HD 2500	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-EKU	G2020	2GBx1 1600MHz	720p	500G 7200	DVD±RW	Intel HD	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-ELU	G2020	2GBx1 1600MHz	720p	500G 7200	None	Intel HD	Intel 105	Frame	None	Win7 Pro64	03/26/13
2117-EWU	i3-3240	2GBx1 1600MHz	720p	320G 5400	DVD±RW	HD 2500	Intel 105	Frame	None	Win7 Pro64	05/14/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Essential All-In-One PC for small/medium businesses</i>						<b>Preloaded operating system<sup>20</sup></b>					
Processor	<b>Intel® Pentium® G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)</b> , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology <b>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)</b> , integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller						Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> <li>• Lenovo® Message Center Plus</li> </ul>					
Implementation	Processor in LGA1155 socket						<b>Preloaded applications</b> (only some listed)					
Memory	8GB max, <b>PC3-12800 1600MHz DDR3</b> , one 204-pin SODIMM sockets (notebook) <i>System automatically clocks down for processors with 1333MHz DDR3 memory controller</i>						<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Automatic Lock Utility</li> <li>• ThinkVantage Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Solution Center</li> <li>• RapidBoot HDD Accelerator</li> <li>• Lenovo SimpleTap</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Evernote®</li> <li>• Symantec™ VIP</li> <li>• Intel AppUp®</li> <li>• Nitro PDF Pro</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Corel® Burn.Now™ (DVD±RW)</li> <li>• Corel DVD MovieFactory® (DVD±RW)</li> </ul>					
Graphics Display	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 2500</b> in processor, uses system memory <b>18.5"</b> (470mm) <b>HD (1366x768) TFT color</b> , CCFL backlight, 200 nits, 16:9 aspect ratio, 600:1 dynamic contrast ratio											
Multi-touch	None											
Camera	HD720p Camera on top of screen, 1.0-megapixel, fixed focus											
Controls	Front facing button for power on/off, side buttons for brightness up and brightness down											
Disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide											
Optical	<i>Some:</i> DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Media reader	None											
Chipset	<b>Intel H61 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), serial (9-pin)											
Side ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)											
PCIe Mini Card	One PCI Express® Mini Card slot											
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1											
Bluetooth	None											
Ethernet	One gigabit ethernet port, Realtek® RTL8111E-VC											
Audio	High Definition (HD) Audio, Realtek ALC269Q											
Speaker	Two internal stereo speakers (2watt x 2)											
Intel AMT	None											
Security chip	None											
Keyboard	Lenovo® Slim New F5 USB Keyboard (USB connector), black											
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	120 watts, autosensing, 87% PSU											
Machine	<i>Model(s) with Frame stand:</i> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• 18.5" W X 2.3" D X 14.5" H</li> <li>• 469.7mm W X 59.5mm D X 368.4mm H (including stand)</li> <li>• 11 lb (5 kg) in maximum configuration</li> <li>• Tilt: 10°-20° back; no lift; no swivel; adjustable stand</li> <li>• Supports VESA mount (100mm)</li> </ul>						<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>					
							ENERGY STAR® 5.2-compliant EuP 2013 RoHS-compliant					
							Supports ThinkVantage Technologies					
							For compatible accessories, please go to O-Edge62Z sheet; For Lenovo service upgrade options, please go to S-TC sheet					
Limited Warranty	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											



ThinkCentre E63z (touch)  
with USB mouse/keyboard



ThinkCentre E63z (touch)  
with USB mouse/keyboard



ThinkCentre E63z (non-touch)  
with USB mouse/keyboard



ThinkCentre E63z  
(right view)



ThinkCentre E63z  
(left view)



ThinkCentre E63z  
(back view)

# ThinkCentre E63z Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Pentium® or 4th Generation Intel Core™ i3 Processor							Keyboard	Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo																	
	Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics	Mouse	Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black Some: Enhanced Optical USB Mouse, black, Lenovo logo Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black																	
	Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD																			
	Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400																			
	* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces							Mechanical	<ul style="list-style-type: none"> <li>Business black color</li> <li>Support VESA mount (100mm)</li> </ul> <table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Weight (Maximum)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3">E63z non-touch with frame stand</td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>8.82 lb (4 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> <tr> <td colspan="3">E63z touch with frame stand</td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>10.58 lb (4.8 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> </tbody> </table>			Dimensions (WxDxH)	Weight (Maximum)	Adjustments	E63z non-touch with frame stand			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back	E63z touch with frame stand			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back
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Memory	<i>Pentium models:</i> 8GB max <sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket <i>Core i3 models:</i> 16GB max <sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets *System automatically clocks down for 1333MHz DDR3 memory controller							Power supply	65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)																	
Disk	<i>Some:</i> SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm <i>Some:</i> 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide							Limited warranty <sup>3</sup>	<i>Some:</i> <b>1-year or 3-years, limited onsite service</b> / service upgrades available <i>Some:</i> <b>1-year or 3-years, Depot or Carry-in</b> / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																	
Optical	None							Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Rescue and Recovery™</li> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage® Product Recovery</li> <li>ThinkVantage System Update</li> <li>ThinkVantage Communication Utility</li> <li>ThinkVantage Device Experience</li> <li>ThinkVantage AutoLock</li> <li>Lenovo SHAREit</li> <li>BlueTooth Security Lock</li> <li>Desktop Power Manager</li> <li>View Management Utility</li> <li>Lenovo Solution Center</li> <li>Lenovo Message Center Plus</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Adobe® Reader®</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote®</li> <li>Nitro Pro</li> </ul>																	
SATA controller	<i>Pentium models:</i> Serial ATA, SATA 3.0Gb/s support, integrated in processor <i>Core i3 models:</i> Serial ATA, SATA 6.0Gb/s support, integrated in processor Optional 7-in-1 media card reader (Core i3 models only)								<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 8.1 with Bing 64-bit <b>Web install applications</b> (only some listed) <ul style="list-style-type: none"> <li>Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>ThinkVantage System Update</li> <li>ThinkVantage AutoLock</li> <li>Lenovo SHAREit</li> <li>BlueTooth Security Lock</li> <li>Desktop Power Manager</li> <li>Lenovo Solution Center</li> <li>Lenovo Support</li> <li>Lenovo Companion</li> <li>Norton Internet Security (30 days of virus definitions)</li> <li>Skype™</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>Cyberlink Power2Go (DVD±RW)</li> <li>Cyberlink PowerProducer (DVD±RW)</li> <li>Evernote®</li> <li>Nitro Pro</li> <li>AccuWeather</li> <li>Norton™ Studio</li> <li>Pokki</li> <li>Hightail</li> </ul>																	
Media reader	Optional 7-in-1 media card reader (Core i3 models only)																									
Graphics	<b>Intel HD Graphics or Intel HD Graphics 4400</b> in processor, uses main memory, <i>Maximum resolution:</i> 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)																									
Display	<b>19.5"</b> (495.3mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch <i>Some:</i> 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator Power button on right side																									
Multi-touch	Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch																									
Camera	<i>Some:</i> 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator																									
Controls	Power button on right side																									
Chipset	<b>Intel System-on-Chip (SoC) platform</b>																									
Rear ports	<i>Pentium models:</i> Two USB 2.0, ethernet (RJ-45), DC-IN <i>Core i3 models:</i> Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN																									
Side ports	<i>Pentium models:</i> One USB 3.0, one microphone / headphone combo jack (3.5mm) <i>Core i3 models:</i> One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader																									
ExpressCard	None																									
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)																									
Audio support	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)																									
WLAN <sup>13</sup>	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth combo adapter, 1x1 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2																									
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																									
Ethernet	One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®																									
vPro & iAMT	None							Environment	EPEAT™ Gold (For Windows models only); ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																	
Security chip	None																									
Security features	<ul style="list-style-type: none"> <li>Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>Power-on password</li> <li>Administrator password</li> <li>Hard disk password</li> <li>Boot sequence control</li> <li>Boot without keyboard and mouse</li> <li>USB port disablement</li> </ul>																									

See footnotes for more detailed information

# ThinkCentre E63z (10D4) - TopSeller

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10D40004US	19.5" HD+	None	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	Win7 P64 DG Win8.1	1-onsite	No	08/14
10D40005US	19.5" HD+	None	Pentium J2900	Intel HD	None	None	2GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	Win7 P64 DG Win8.1	1-onsite	No	08/14

• For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#)

Processor	<p>Intel® Pentium® or 4th Generation Intel Core™ i3 Processor</p> <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Clock Speed</th> <th>Max Burst Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.41 GHz</td> <td>2.66 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Core i3-4005U</td> <td>2 / 4</td> <td>1.7 Ghz</td> <td>-</td> <td>3MB</td> <td>DDR3L-1600</td> <td>Intel HD 4400</td> </tr> </tbody> </table> <p>* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces</p>	Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics	Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD	Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400	<p>Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo</p> <p>Bluetooth™ Ethernet</p> <p>Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®</p> <p>vPro &amp; iAMT Security chip</p> <p>None None</p> <p>Security features</p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>
Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics																	
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Memory	<p><i>Pentium models:</i> 8GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket</p> <p><i>Core i3 models:</i> 16GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets</p> <p>*System automatically clocks down for 1333MHz DDR3 memory controller</p>																						
Disk	<p>Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm</p> <p>Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</p> <p>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>	<p>Keyboard</p> <p>Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo</p> <p>Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo</p> <p>Mouse</p> <p>Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p> <p>Some: Enhanced Optical USB Mouse, black, Lenovo logo</p> <p>Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>																					
Optical	None																						
SATA controller	<i>Pentium models:</i> Serial ATA, SATA 3.0Gb/s support, integrated in processor																						
Media reader	<i>Core i3 models:</i> Serial ATA, SATA 6.0Gb/s support, integrated in processor Optional 7-in-1 media card reader (Core i3 models only)																						
Graphics	<p><b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400</b> in processor, uses main memory, <i>Maximum resolution:</i> 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)</p>	<p>Mechanical</p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• Support VESA mount (100mm)</li> </ul> <table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Weight (Maximum)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>E63z non-touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>8.82 lb (4 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> <tr> <td colspan="3"><b>E63z touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>10.58 lb (4.8 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> </tbody> </table>	Dimensions (WxDxH)	Weight (Maximum)	Adjustments	<b>E63z non-touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back	<b>E63z touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back						
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19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back																					
Display	<p><b>19.5"</b> (495.3mm) <b>HD+ (1600x900) TFT color</b>, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models</p> <p>Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch</p> <p>Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator</p> <p>Power button on right side</p>																						
Multi-touch																							
Camera																							
Controls																							
Chipset	<b>Intel System-on-Chip (SoC) platform</b>	<p>Power supply</p> <p>65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)</p>																					
Rear ports	<p><i>Pentium models:</i> Two USB 2.0, ethernet (RJ-45), DC-IN</p> <p><i>Core i3 models:</i> Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN</p>	<p>Limited warranty<sup>3</sup></p> <p>Some: <b>1-year or 3-years, limited onsite service</b> / service upgrades available Some: <b>1-year or 3-years, Depot or Carry-in</b> / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet</p>																					
Side ports	<p><i>Pentium models:</i> One USB 3.0, one microphone / headphone combo jack (3.5mm)</p> <p><i>Core i3 models:</i> One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader</p>																						
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)	<p>Preload</p> <p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 8.1 with Bing 64-bit</p>																					
Audio support	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)																						
WLAN <sup>13</sup>	<p>Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1</p> <p>Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2</p>	<p>Environment</p> <p>ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3</p>																					

See footnotes for more detailed information

# ThinkCentre E63z (10D6) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D60005US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	Win7 P64 DG Win8.1	1-on-site	No	08/14
10D60006US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB (slim)	Win7 P64 DG Win8.1	1-on-site	No	08/14
10D60007US	19.5" HD+	Touch	Pentium J2900	Intel HD	None	None	2GBx1	500GB 7200	None	RTL8723BE	Frame	USB (slim)	Win7 P64 DG Win8.1	1-on-site	No	08/14

• For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#)

Processor	<p>Intel® Pentium® or 4th Generation Intel Core™ i3 Processor</p> <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Clock Speed</th> <th>Max Burst Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.41 GHz</td> <td>2.66 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Core i3-4005U</td> <td>2 / 4</td> <td>1.7 Ghz</td> <td>-</td> <td>3MB</td> <td>DDR3L-1600</td> <td>Intel HD 4400</td> </tr> </tbody> </table> <p>* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces</p>	Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics	Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD	Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400	<p>Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo</p> <p>Bluetooth™ Ethernet</p> <p>Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®</p> <p>vPro &amp; iAMT Security chip</p> <p>None None</p> <p>Security features</p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>
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Memory	<p><i>Pentium models:</i> 8GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket</p> <p><i>Core i3 models:</i> 16GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets</p> <p>*System automatically clocks down for 1333MHz DDR3 memory controller</p>																						
Disk	<p>Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm</p> <p>Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</p> <p>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>	<p>Keyboard</p> <p>Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo</p> <p>Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo</p> <p>Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p> <p>Some: Enhanced Optical USB Mouse, black, Lenovo logo</p> <p>Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>																					
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Graphics	Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory, Maximum resolution: 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)																						
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Chipset	Intel System-on-Chip (SoC) platform	Power supply																					
Rear ports	<i>Pentium models:</i> Two USB 2.0, ethernet (RJ-45), DC-IN <i>Core i3 models:</i> Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN	65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)																					
Side ports	<i>Pentium models:</i> One USB 3.0, one microphone / headphone combo jack (3.5mm) <i>Core i3 models:</i> One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader	Limited warranty <sup>3</sup>																					
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)	Some: 1-year or 3-years, limited onsite service / service upgrades available Some: 1-year or 3-years, Depot or Carry-in / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																					
Audio support	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)	Preload																					
WLAN <sup>13</sup>	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2	Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 8.1 with Bing 64-bit																					
		Environment																					
		ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																					

See footnotes for more detailed information

# ThinkCentre E63z (10E0) - TopSeller

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10E00027US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E00028US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E00029US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	2GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E0002AUS	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	64GB SSD	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E0002BUS	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14

• For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#)

Processor	<p>Intel® Pentium® or 4th Generation Intel Core™ i3 Processor</p> <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Clock Speed</th> <th>Max Burst Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.41 GHz</td> <td>2.66 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Core i3-4005U</td> <td>2 / 4</td> <td>1.7 Ghz</td> <td>-</td> <td>3MB</td> <td>DDR3L-1600</td> <td>Intel HD 4400</td> </tr> </tbody> </table> <p>* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces</p>	Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics	Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD	Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400	<p>Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo</p> <p>Bluetooth™ Ethernet</p> <p>Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®</p> <p>vPro &amp; iAMT Security chip</p> <p>None None</p>
Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics																	
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD																	
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400																	
Memory	<p><i>Pentium models:</i> 8GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket</p> <p><i>Core i3 models:</i> 16GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets</p> <p>*System automatically clocks down for 1333MHz DDR3 memory controller</p>	<p>Security features</p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>																					
Disk	<p>Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm</p> <p>Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</p> <p>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>	<p>Keyboard</p> <p>Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo</p> <p>Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo</p> <p>Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p> <p>Some: Enhanced Optical USB Mouse, black, Lenovo logo</p> <p>Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>																					
Optical	None	<p>Mechanical</p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• Support VESA mount (100mm)</li> </ul> <table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Weight (Maximum)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3">E63z non-touch with frame stand</td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>8.82 lb (4 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> <tr> <td colspan="3">E63z touch with frame stand</td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>10.58 lb (4.8 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> </tbody> </table>	Dimensions (WxDxH)	Weight (Maximum)	Adjustments	E63z non-touch with frame stand			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back	E63z touch with frame stand			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back						
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SATA controller	<p><i>Pentium models:</i> Serial ATA, SATA 3.0Gb/s support, integrated in processor</p> <p><i>Core i3 models:</i> Serial ATA, SATA 6.0Gb/s support, integrated in processor</p> <p>Optional 7-in-1 media card reader (Core i3 models only)</p>																						
Media reader																							
Graphics	<p>Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory, Maximum resolution: 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)</p>																						
Display	<p>19.5" (495.3mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models</p> <p>Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch</p> <p>Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator</p> <p>Power button on right side</p>																						
Multi-touch																							
Camera																							
Controls																							
Chipset	Intel System-on-Chip (SoC) platform	Power supply	65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)																				
Rear ports	<p><i>Pentium models:</i> Two USB 2.0, ethernet (RJ-45), DC-IN</p> <p><i>Core i3 models:</i> Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN</p>	Limited warranty <sup>3</sup>	<p>Some: 1-year or 3-years, limited onsite service / service upgrades available</p> <p>Some: 1-year or 3-years, Depot or Carry-in / service upgrades available</p> <p>For Lenovo service upgrade options, please go to S-TC sheet</p>																				
Side ports	<p><i>Pentium models:</i> One USB 3.0, one microphone / headphone combo jack (3.5mm)</p> <p><i>Core i3 models:</i> One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader</p>	Preload	<p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</p> <p>Some: Windows 8.1 64-bit</p> <p>Some: Windows 8.1 Pro 64-bit</p> <p>Some: Windows 8.1 with Bing 64-bit</p>																				
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)	Environment	ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																				
Audio support	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)																						
WLAN <sup>13</sup>	<p>Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1</p> <p>Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2</p>																						

See footnotes for more detailed information

# ThinkCentre E63z (10E2) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E2001QUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001RUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001SUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001TUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	128GB SSD	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14
10E2001UUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	256GB SSD OPAL	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	1-onsite	No	11/14

• For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#)

Processor	Intel® Pentium® or 4th Generation Intel Core™ i3 Processor	Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo																						
	<table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Clock Speed</th> <th>Max Burst Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.41 GHz</td> <td>2.66 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Core i3-4005U</td> <td>2 / 4</td> <td>1.7 Ghz</td> <td>-</td> <td>3MB</td> <td>DDR3L-1600</td> <td>Intel HD 4400</td> </tr> </tbody> </table>	Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics	Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD	Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400	Bluetooth™ Ethernet	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®
Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics																		
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD																		
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400																		
	* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces	vPro & iAMT Security chip	None None																					
Memory	<p><i>Pentium models:</i> 8GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket</p> <p><i>Core i3 models:</i> 16GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets</p> <p>*System automatically clocks down for 1333MHz DDR3 memory controller</p>	Security features	<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>																					
Disk	<p>Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm</p> <p>Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</p> <p>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>	Keyboard	Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo																					
Optical	None	Mouse	Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black Some: Enhanced Optical USB Mouse, black, Lenovo logo Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black																					
SATA controller	<i>Pentium models:</i> Serial ATA, SATA 3.0Gb/s support, integrated in processor	Mechanical	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Support VESA mount (100mm)</li> </ul> <table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Weight (Maximum)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>E63z non-touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>8.82 lb (4 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> <tr> <td colspan="3"><b>E63z touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>10.58 lb (4.8 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> </tbody> </table>	Dimensions (WxDxH)	Weight (Maximum)	Adjustments	<b>E63z non-touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back	<b>E63z touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back						
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19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back																						
Media reader	<i>Core i3 models:</i> Serial ATA, SATA 6.0Gb/s support, integrated in processor Optional 7-in-1 media card reader (Core i3 models only)	Power supply	65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)																					
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400</b> in processor, uses main memory, <i>Maximum resolution:</i> 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)	Limited warranty <sup>3</sup>	Some: <b>1-year or 3-years, limited onsite service</b> / service upgrades available Some: <b>1-year or 3-years, Depot or Carry-in</b> / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																					
Display	<b>19.5"</b> (495.3mm) <b>HD+</b> ( <b>1600x900</b> ) <b>TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models	Preload	Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 8.1 with Bing 64-bit																					
Multi-touch	Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch	Environment	ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																					
Camera	Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator																							
Controls	Power button on right side																							
Chipset	<b>Intel System-on-Chip (SoC) platform</b>																							
Rear ports	<i>Pentium models:</i> Two USB 2.0, ethernet (RJ-45), DC-IN <i>Core i3 models:</i> Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN																							
Side ports	<i>Pentium models:</i> One USB 3.0, one microphone / headphone combo jack (3.5mm) <i>Core i3 models:</i> One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader																							
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)																							
Audio support	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)																							
WLAN <sup>13</sup>	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2																							

See footnotes for more detailed information

# ThinkCentre E63z (10D5)

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D5000FUS	19.5" HD+	None	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	08/14

• For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#)

Processor	Intel® Pentium® or 4th Generation Intel Core™ i3 Processor							Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo																	
	Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics	Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																
Memory	Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD	Ethernet	One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®																
	Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400	vPro & iAMT Security chip	None																
Disk	* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces							Security features		<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>															
	Pentium models:	8GB max <sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket						Keyboard	Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo																
Core i3 models:	16GB max <sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets						Mouse		Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black Some: Enhanced Optical USB Mouse, black, Lenovo logo Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black																
Optical	None							Mechanical	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Support VESA mount (100mm)</li> </ul>																
SATA controller	Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor								<table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Weight (Maximum)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3">E63z non-touch with frame stand</td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>8.82 lb (4 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> <tr> <td colspan="3">E63z touch with frame stand</td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>10.58 lb (4.8 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> </tbody> </table>			Dimensions (WxDxH)	Weight (Maximum)	Adjustments	E63z non-touch with frame stand			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back	E63z touch with frame stand			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)
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19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back																							
Media reader	Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor Optional 7-in-1 media card reader (Core i3 models only)							Power supply			65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)														
Graphics	Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory, Maximum resolution: 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)							Limited warranty <sup>3</sup>			Some: <b>1-year or 3-years, limited onsite service</b> / service upgrades available Some: <b>1-year or 3-years, Depot or Carry-in</b> / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet														
Display	19.5" (495.3mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models							Preload			Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 8.1 with Bing 64-bit														
Multi-touch	Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch							Environment			ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3														
Camera	Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator																								
Controls	Power button on right side																								
Chipset	Intel System-on-Chip (SoC) platform																								
Rear ports	Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN																								
Side ports	Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm) Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader																								
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)																								
Audio support	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)																								
WLAN <sup>13</sup>	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2																								

See footnotes for more detailed information

# ThinkCentre E63z (10D7) - Multi-touch

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Preload	Base Warranty (year)	Gobal	Ann Date (mm/yy)
10D7000KUS	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	08/14
10D7000HUS	19.5" HD+	Touch	Pentium J2900	Intel HD	None	720p	8GBx1	500GB 7200	None	7260 ac	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	08/14

• For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#)

Processor	<p>Intel® Pentium® or 4th Generation Intel Core™ i3 Processor</p> <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Clock Speed</th> <th>Max Burst Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.41 GHz</td> <td>2.66 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Core i3-4005U</td> <td>2 / 4</td> <td>1.7 Ghz</td> <td>-</td> <td>3MB</td> <td>DDR3L-1600</td> <td>Intel HD 4400</td> </tr> </tbody> </table> <p>* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces</p>	Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics	Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD	Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400	<p>Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo</p>
Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics																	
Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD																	
Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400																	
Memory	<p><i>Pentium models:</i> 8GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket <i>Core i3 models:</i> 16GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets *System automatically clocks down for 1333MHz DDR3 memory controller</p>	<p>Bluetooth™ Ethernet</p> <p>vPro &amp; iAMT Security chip</p> <p>Security features</p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>																					
Disk	<p>Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>	<p>Keyboard</p> <p>Mouse</p> <p>Mechanical</p> <table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Weight (Maximum)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>E63z non-touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>8.82 lb (4 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> <tr> <td colspan="3"><b>E63z touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>10.58 lb (4.8 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> </tbody> </table>	Dimensions (WxDxH)	Weight (Maximum)	Adjustments	<b>E63z non-touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back	<b>E63z touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back						
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19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back																					
Optical	None																						
SATA controller	<i>Pentium models:</i> Serial ATA, SATA 3.0Gb/s support, integrated in processor																						
Media reader	<i>Core i3 models:</i> Serial ATA, SATA 6.0Gb/s support, integrated in processor Optional 7-in-1 media card reader (Core i3 models only)																						
Graphics	Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory, Maximum resolution: 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)																						
Display	19.5" (495.3mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models																						
Multi-touch	Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch																						
Camera	Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator																						
Controls	Power button on right side																						
Chipset	Intel System-on-Chip (SoC) platform	Power supply																					
Rear ports	<i>Pentium models:</i> Two USB 2.0, ethernet (RJ-45), DC-IN <i>Core i3 models:</i> Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN	Limited warranty <sup>3</sup>																					
Side ports	<i>Pentium models:</i> One USB 3.0, one microphone / headphone combo jack (3.5mm) <i>Core i3 models:</i> One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader	Some: 1-year or 3-years, limited onsite service / service upgrades available Some: 1-year or 3-years, Depot or Carry-in / service upgrades available For Lenovo service upgrade options, please go to S-TC sheet																					
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)	Preload																					
Audio support	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)	Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 8.1 with Bing 64-bit																					
WLAN <sup>13</sup>	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2	Environment																					
		ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																					

See footnotes for more detailed information

# ThinkCentre E63z (10E1)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E10002US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E10005US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E10006US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	8GBx1	256GB SSD OPAL	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E10007US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	4GBx1	64GB SSD	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E10008US	19.5" HD+	None	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14

• For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#)

Processor	<p>Intel® Pentium® or 4th Generation Intel Core™ i3 Processor</p> <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Clock Speed</th> <th>Max Burst Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Pentium J2900</td> <td>4 / 4</td> <td>2.41 GHz</td> <td>2.66 GHz</td> <td>2MB</td> <td>DDR3L-1333</td> <td>Intel HD</td> </tr> <tr> <td>Core i3-4005U</td> <td>2 / 4</td> <td>1.7 Ghz</td> <td>-</td> <td>3MB</td> <td>DDR3L-1600</td> <td>Intel HD 4400</td> </tr> </tbody> </table> <p>* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces</p>	Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics	Pentium J2900	4 / 4	2.41 GHz	2.66 GHz	2MB	DDR3L-1333	Intel HD	Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400	<p>Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo</p> <p>Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</p> <p>Ethernet One gigabit ethernet port, Realtek RTL8111G, Wake on LAN®</p> <p>vPro &amp; iAMT Security chip None</p> <p>Security features</p> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>
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Memory	<p><i>Pentium models:</i> 8GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket</p> <p><i>Core i3 models:</i> 16GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets</p> <p>*System automatically clocks down for 1333MHz DDR3 memory controller</p>																						
Disk	<p>Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm</p> <p>Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</p> <p>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>	<p>Keyboard Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo</p> <p>Mouse Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo</p> <p>Some: Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black</p> <p>Some: Enhanced Optical USB Mouse, black, Lenovo logo</p> <p>Some: Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black</p>																					
Optical	None																						
SATA controller	<i>Pentium models:</i> Serial ATA, SATA 3.0Gb/s support, integrated in processor																						
Media reader	<i>Core i3 models:</i> Serial ATA, SATA 6.0Gb/s support, integrated in processor																						
Graphics	Optional 7-in-1 media card reader (Core i3 models only)																						
Display	<p><b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400</b> in processor, uses main memory, <i>Maximum resolution:</i> 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)</p> <p><b>19.5"</b> (495.3mm) <b>HD+</b> (1600x900) <b>TFT color</b>, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models</p> <p>Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch</p> <p>Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator</p> <p>Power button on right side</p>	<p>Mechanical</p> <ul style="list-style-type: none"> <li>• Business black color</li> <li>• Support VESA mount (100mm)</li> </ul> <table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Weight (Maximum)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>E63z non-touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>8.82 lb (4 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> <tr> <td colspan="3"><b>E63z touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>10.58 lb (4.8 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> </tbody> </table>	Dimensions (WxDxH)	Weight (Maximum)	Adjustments	<b>E63z non-touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back	<b>E63z touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back						
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Multi-touch																							
Camera																							
Controls																							
Chipset	<b>Intel System-on-Chip (SoC) platform</b>	Power supply 65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)																					
Rear ports	<i>Pentium models:</i> Two USB 2.0, ethernet (RJ-45), DC-IN	Limited warranty <sup>3</sup> Some: <b>1-year or 3-years, limited onsite service</b> / service upgrades available																					
Side ports	<i>Core i3 models:</i> Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN	Some: <b>1-year or 3-years, Depot or Carry-in</b> / service upgrades available																					
PCIe Mini Card	<i>Pentium models:</i> One USB 3.0, one microphone / headphone combo jack (3.5mm)	For Lenovo service upgrade options, please go to S-TC sheet																					
Audio support	<i>Core i3 models:</i> One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader	Preload Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit																					
WLAN <sup>13</sup>	One PCI Express Mini Card slot (half size, for WLAN)	Some: Windows 8.1 64-bit																					
	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)	Some: Windows 8.1 Pro 64-bit																					
	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1	Some: Windows 8.1 with Bing 64-bit																					
	Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2	Environment ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																					

See footnotes for more detailed information

# ThinkCentre E63z (10E3) - Multi-touch

Product Specifications Reference (PSREF)

Model	Display	Multi-Touch	Processor	Graphics	Media Reader	Camera	Memory	Storage	Optical	WLAN	Floor Stand	Keyboard / Mouse	Preload	Base Warranty (year)	Global	Ann Date (mm/yy)
10E30007US	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E30008US	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	4GBx1	180GB SSD	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E30009US	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	500GB 7200	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14
10E3000AUS	19.5" HD+	Touch	i3-4005U	HD 4400	7-in-1	720p	8GBx1	256GB SSD OPAL	None	7260 b/g/n	Frame	USB	Win7 P64 DG Win8.1	3-onsite	No	11/14

• For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#)

Processor	Intel® Pentium® or 4th Generation Intel Core™ i3 Processor	Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo																					
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Processor	Cores / Threads	Clock Speed	Max Burst Frequency	Cache	Memory Types	Integrated Graphics																	
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Core i3-4005U	2 / 4	1.7 Ghz	-	3MB	DDR3L-1600	Intel HD 4400																	
	* System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces	None None																					
Memory	<p><i>Pentium models:</i> 8GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket</p> <p><i>Core i3 models:</i> 16GB max<sup>7</sup> / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets</p> <p>*System automatically clocks down for 1333MHz DDR3 memory controller</p>	<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• USB port disablement</li> </ul>																					
Disk	<p>Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm</p> <p>Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide</p> <p>Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide</p>	<p>vPro &amp; iAMT Security chip</p> <p>Security features</p>																					
Optical	None	Keyboard																					
SATA controller	<i>Pentium models:</i> Serial ATA, SATA 3.0Gb/s support, integrated in processor	Mouse																					
Media reader	<i>Core i3 models:</i> Serial ATA, SATA 6.0Gb/s support, integrated in processor Optional 7-in-1 media card reader (Core i3 models only)	Mechanical																					
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400</b> in processor, uses main memory, <i>Maximum resolution:</i> 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)	<ul style="list-style-type: none"> <li>• Business black color</li> <li>• Support VESA mount (100mm)</li> </ul> <table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Weight (Maximum)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>E63z non-touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>8.82 lb (4 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> <tr> <td colspan="3"><b>E63z touch with frame stand</b></td> </tr> <tr> <td>19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm</td> <td>10.58 lb (4.8 kg)</td> <td>Tilt: 10° to 60° back</td> </tr> </tbody> </table>	Dimensions (WxDxH)	Weight (Maximum)	Adjustments	<b>E63z non-touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	8.82 lb (4 kg)	Tilt: 10° to 60° back	<b>E63z touch with frame stand</b>			19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back						
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19.21" X 2.44" X 13.62" 488mm X 62mm X 346mm	10.58 lb (4.8 kg)	Tilt: 10° to 60° back																					
Display	<b>19.5"</b> (495.3mm) <b>HD+ (1600x900) TFT color</b> , LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models	Power supply																					
Multi-touch	Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch	Limited warranty <sup>3</sup>																					
Camera	Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator	Some: <b>1-year or 3-years, limited onsite service</b> / service upgrades available Some: <b>1-year or 3-years, Depot or Carry-in</b> / service upgrades available For Lenovo service upgrade options, please go to <i>S-TC sheet</i>																					
Controls	Power button on right side	Preload																					
Chipset	<b>Intel System-on-Chip (SoC) platform</b>	Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 8.1 with Bing 64-bit																					
Rear ports	<i>Pentium models:</i> Two USB 2.0, ethernet (RJ-45), DC-IN <i>Core i3 models:</i> Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN	Environment																					
Side ports	<i>Pentium models:</i> One USB 3.0, one microphone / headphone combo jack (3.5mm) <i>Core i3 models:</i> One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader	ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3																					
PCIe Mini Card	One PCI Express Mini Card slot (half size, for WLAN)																						
Audio support	High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)																						
WLAN <sup>13</sup>	Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1 Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2																						

See footnotes for more detailed information



ThinkCentre E73 SFF and Tower



ThinkCentre E73 Tower with Dual Lenovo ThinkVision Monitors



ThinkCentre E73 SFF



ThinkCentre E73 SFF



ThinkCentre E73 Tower

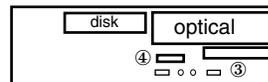


ThinkCentre E73 SFF with HDD and optional SSD

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Parallel port	Serial port	Floor stand	Keyboard / mouse	Global	Preload	Ann date (mm/dd/yy)
10AU002MUS	3x4	i5-4430S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	Serial	None	USB	None	Win7 Pro64 (DG)	10/22/13
10AU002PUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU002QUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU002RUS	3x4	i5-4570S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	Parallel	Serial	Stand	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AU00EUUS	3x4	i5-4460S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ETUS	3x4	i7-4790S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ERUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AU00ESUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	Stylish design, reliability, and productivity for small/medium businesses		<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Device Experience</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Evernote®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Nitro Pro</li> </ul>
Processor	Intel® Pentium® or 4th Generation Intel Core™ i3 / i5 / i7 Processors		
	Processor	Cores / Threads	
		Frequency (Base/Max)	
		Cache	
		Memory Types	
		Integrated Graphics	
	Pentium G3240	2 / 2	
	Pentium G3220	2 / 2	
	Core i3-4150	2 / 4	
	Core i3-4130	2 / 4	
	Core i5-4570S	4 / 4	
	Core i5-4460S	4 / 4	
	Core i5-4430S	4 / 4	
	Core i7-4790S	4 / 8	
Implementation	Processor in LGA1150 socket		
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3*</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller		
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)		
DP dongle	None		
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset		
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar		
eSATA port	None		
Media reader	Optional 9-in-1 media reader, internal USB 2.0		
Chipset	<b>Intel H81 Express Chipset</b>		
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)		
Rear ports	Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)		
PCIe WLAN	None		
Bluetooth	None		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN		
Manageability	None		
Modem	None		
Security chip	None		
Keyboard	Some: Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo Some: Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Floor Stand	Optional system floor stand for vertical orientation		
Power supply	180 watts, universal, autosensing		
Machine	<ul style="list-style-type: none"> <li>• Glossy black bezel; metal case</li> <li>• 13.2" W X 15.0" D X 3.98" H</li> <li>• 336mm W X 382mm D X 101mm H</li> <li>• 13.2 lb (6.0 kg) in maximum configuration</li> <li>• Highlighted optical drive button for easy access</li> </ul>		
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 2.5", N/A, no access, opt 2nd SSD* Bay 4: 1.5", .35" high, access, optnl reader* *bay only available on models with SSD/reader installed		
Slot	Slot 1: Low Profile, PCI Express® 3.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, PCIe 2.0 x1		
Limited Warranty <sup>1</sup>	1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		



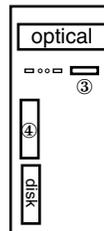
# ThinkCentre E73 Tower (10AS) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory <sup>a</sup>	SATA disk GB rpm	SATA optical	PCIe WLAN	Media reader	Graphics	Parallel port	Serial port	Keyboard / mouse	Global	Preload	Ann date (mm/dd/yy)
10AS002JUS	3x4	i3-4130	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	Parallel	Serial	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AS002KUS	3x4	i5-4570S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	Parallel	Serial	USB(slim)	None	Win7 Pro64 (DG)	10/22/13
10AS005LUS	3x4	G3220	2GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	USB	None	Win7 Pro64 (DG)	12/10/13
10AS00DEUS	3x4	G3240	4GBx1	500G 7200	DVD±RW	None	None	Intel HD	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DFUS	3x4	i5-4460S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DGUS	3x4	i7-4790S	4GBx1	500G 7200	DVD±RW	None	None	HD 4600	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14
10AS00DDUS	3x4	i3-4150	4GBx1	500G 7200	DVD±RW	None	None	HD 4400	None	None	USB	None	Win7 P64 DG Win8.1	11/18/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	Stylish design, reliability, and productivity for small/medium businesses		<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit <b>Ready to install applications</b> (only some listed) <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications</b> (only some listed) <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Device Experience</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Evernote®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Nitro Pro</li> </ul>				
Processor	Intel® Pentium® or 4th Generation Intel Core™ i3 / i5 / i7 Processors						
	Processor	Cores / Threads		Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
	Pentium G3240	2 / 2		3.1 GHz	3 MB	DDR3-1333	Intel HD
	Pentium G3220	2 / 2		3 GHz	3 MB	DDR3-1333	Intel HD
	Core i3-4150	2 / 4		3.5 GHz	3 MB	DDR3-1600	HD 4400
	Core i3-4130	2 / 4		3.4 GHz	3 MB	DDR3-1600	HD 4400
	Core i5-4570S	4 / 4		2.9 GHz / 3.6 GHz	6 MB	DDR3-1600	HD 4600
	Core i5-4460S	4 / 4		2.9 GHz / 3.4 GHz	6 MB	DDR3-1600	HD 4600
	Core i5-4430S	4 / 4		2.7 GHz / 3.2 GHz	6 MB	DDR3-1600	HD 4600
	Core i7-4790S	4 / 8	3.2 GHz / 4 GHz	8 MB	DDR3-1600	HD 4600	
Implementation	Processor in LGA1150 socket						
Memory	16GB max, <b>UDIMM, PC3-12800 1600MHz DDR3*</b> , two 240-pin DIMM sockets *System automatically clocks down for processors with 1333MHz memory controller						
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)						
DP dongle	None						
Disk	Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm						
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive						
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset						
Onboard SATA	SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar						
eSATA port	None						
Media reader	Optional 9-in-1 media reader, internal USB 2.0						
Chipset	<b>Intel H81 Express Chipset</b>						
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)						
Rear ports	Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort						
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)						
PCIe WLAN	None						
Bluetooth	None						
Audio	High Definition (HD) Audio, Realtek® ALC662 codec						
Speaker	Internal speaker for business audio						
IEEE 1394	None						
Ethernet	Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN						
Manageability	None						
Modem	None						
Security chip	None						
Keyboard	Some: Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo Some: Lenovo® Slim USB Keyboard (USB connector), black, Lenovo logo						
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo						
Power supply	180 watts, universal, autosensing						
Machine	<ul style="list-style-type: none"> <li>• Glossy black bezel; metal case</li> <li>• 6.3" W X 15.7" D X 15.6" H (with handle)</li> <li>• 160mm W X 400mm D X 397mm H</li> <li>• 16.5 lb (7.5 kg) in maximum configuration</li> <li>• Ergonomic rubberized handle</li> <li>• Highlighted optical drive button for easy access</li> </ul>						
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 1.5", .35" high, access, optnl reader* Bay 4: 3.5", 1" high, no access, opt 2nd 2.5" disk** *bay only available on models with media reader installed **3.5" to 2.5" bracket comes with optional 2nd 2.5" disk						
Slot	Slot 1: half-length, full-height, PCI Express® 3.0 x16 (60w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, PCIe 2.0 x1						
Limited Warranty <sup>1</sup>	<b>1-year, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available						





ThinkCentre E93z with Frame Stand



ThinkCentre E93z with Monitor Stand



ThinkCentre E93z with Frame Stand



ThinkCentre E93z with Monitor Stand



ThinkCentre E93z with Frame Stand



ThinkCentre E93z with Monitor Stand

# ThinkCentre E93z All-In-One - II

# ThinkCentre®



ThinkCentre E93z with UltraFlex Stand



ThinkCentre E93z with UltraFlex Stand



ThinkCentre E93z with UltraFlex Stand



ThinkCentre E93z with UltraFlex Stand with optional wireless mouse / keyboard and Lenovo ThinkVision Monitor



ThinkCentre E93z with UltraFlex Stand



ThinkCentre E93z (handle)

# ThinkCentre E93z (10B8) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>a</sup>	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/Mouse	Preload	Ann date (mm/dd/yy)
10B80007US	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N2230	Media	Frame	USB	Win7 P64 DG Win8	08/27/13
10B80058US	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N2230	Media	Frame	USB(slim)	Win7 P64 DG Win8	10/22/13
10B8007CUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N7260	Media	UltraFlex	USB	Win7 P64 DG Win8.1	04/08/14
10B8008KUS	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N7260	Media	Monitor	USB	Win7 P64 DG Win8.1	12/16/14
10B8008LUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N7260	Media	Monitor	USB	Win7 P64 DG Win8.1	12/16/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>	
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											<i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit	
Implementation												<b>Ready to install applications</b> (only some listed)	
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>	
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11.1, external digital monitor support via HDMI, supports dual independent display; <i>Max resolution:</i> 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz											<ul style="list-style-type: none"> <li>• ThinkVantage™ Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> </ul>	
Display	<b>21.5"</b> (546.1mm) <b>Full HD 1080p (1920x1080) TFT color</b> , wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector											<b>Preloaded applications</b> (only some listed)	
Light sensor	None												
Multi-touch	None												
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off												
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button												
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm												
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable												
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar												
Media reader	Optional 11-in-1 media card reader												
Chipset	<b>Intel B85 Express Chipset</b>												
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in												
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader												
PCIe Mini Card	Two PCI Express® Mini Card slots												
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 <i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2												
Bluetooth	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter												
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®												
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified												
Intel AMT	None												
Security chip	None											<b>Security</b>	
Keyboard	<i>Some:</i> Lenovo® Slim New F5 USB Keyboard (USB connector), black <i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo logo											<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo												
Power supply	150 watts, autosensing, 85% PSU												
Color	Business black color												
VESA mount	Support VESA mount (100mm)												
Dimensions and weight (without stand)	<i>Non-touch models (WxDxH):</i> 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration <i>Touch models (WxDxH):</i> 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration											ENERGY STAR® 6.0-compliant	
Stand	<i>Optional Frame Stand:</i> Adjustable between 10° and 65° (Tilt) <i>Optional Monitor Stand:</i> Adjustable between -5° and 45° (Tilt) <i>Optional UltraFlex Stand:</i> Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management											EuP 2013 GREENGUARD® certified RoHS-compliant	
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet	

See footnotes for important warranty information

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# ThinkCentre E93z (10B9) - NVIDIA (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory <sup>8</sup>	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card	Media reader	Stand type	Key-board/Mouse Global	Preload	Ann date (mm/dd/yy)
10B9000SUS	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win7 Pro64 DG 08/27/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>										
Processor	<b>Intel® Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket										
Implementation	Processor in LGA1150 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, <b>Intel HD Graphics 4400/4600</b> in processor, and <b>NVIDIA GeForce® GT 720A</b> , PCI Express® x16, <b>1GB</b> memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz</i>										
Display	<b>21.5"</b> (546.1mm) <b>Full HD 1080p (1920x1080) TFT color</b> , wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector										
Light sensor	None										
Multi-touch	None										
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off										
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button										
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar										
Media reader	Optional 11-in-1 media card reader										
Chipset	<b>Intel B85 Express Chipset</b>										
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in										
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader										
PCIe Mini Card	Two PCI Express® Mini Card slots										
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2										
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter										
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®										
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified										
Intel AMT Security chip	None										
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	180 watts, autosensing, 92% PSU										
Color	Business black color										
VESA mount	Support VESA mount (100mm)										
Dimensions and weight (without stand)	<i>Non-touch models (WxDxH):</i> 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration										
	<i>Touch models (WxDxH):</i> 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration										
Stand	<i>Optional Frame Stand:</i> Adjustable between 10° and 65° (Tilt)										
	<i>Optional Monitor Stand:</i> Adjustable between -5° and 45° (Tilt)										
	<i>Optional UltraFlex Stand:</i> Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management										
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
<b>Preloaded operating system</b> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  <b>Ready to install applications</b> (only some listed) • Rescue and Recovery™ • Password Manager  <b>Preloaded applications</b> (only some listed) • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Device Experience • ThinkVantage AutoLock • Desktop Power Manager • View Management Utility • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • Lenovo Message Center Plus • Norton™ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype™ • Microsoft Office preloaded; purchase a product key to activate • Cyberlink PowerDVD (DVD±RW, DVD) • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) • Evernote • Lenovo Solutions for Small Business • Nitro Pro  <b>Security</b> • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Individual USB port disablement ENERGY STAR® 6.0-compliant EuP 2013 GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies  For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet											

See footnotes for important warranty information  
US model(s) announced August 27, 2013

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# ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card	Media reader	Stand type	Key-board/Mouse Global	Preload	Ann date (mm/dd/yy)
10BA000EUS	i7-4770S	4GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	Frame	2.4G	None	Win7 Pro64 DG 08/27/13
10BA000FUS	i7-4770S	4GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	UltraFlex	2.4G	None	Win7 Pro64 DG 08/27/13
10BA000GUS	i5-4430S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win7 Pro64 DG 08/27/13
10BA000HUS	i5-4430S	8GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB	None	Win7 Pro64 DG 08/27/13
10BA001LUS	i7-4770S	8GBx1	21.5" FHD	Touch	2.0M	500G Hybrid	DVD±RW	GT 720A	N2230	Media	UltraFlex	USB	None	Win7 Pro64 DG 08/27/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache),</b> Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller <b>Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),</b> Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, <b>Intel HD Graphics 4400/4600</b> in processor, and <b>NVIDIA GeForce® GT 720A</b> , PCI Express® x16, <b>1GB</b> memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Max resolution:</i> 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz											<b>Preloaded applications</b> (only some listed)
Display	<b>21.5"</b> (546.1mm) <b>Full HD 1080p (1920x1080) TFT color</b> , wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink Power2Go (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> </ul>
Light sensor	None											
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off											
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button											
Disk	<i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar											
Media reader	Optional 11-in-1 media card reader											
Chipset	<b>Intel B85 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in											
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader											
PCIe Mini Card	Two PCI Express® Mini Card slots											
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											
Intel AMT	None											
Security chip	None											
Keyboard	<i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo® logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black											<b>Security</b>
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black											<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>
Power supply	180 watts, autosensing, 92% PSU											ENERGY STAR® 6.0-compliant
Color	Business black color											EuP 2013
VESA mount	Support VESA mount (100mm)											GREENGUARD® certified
Dimensions and weight (without stand)	<i>Non-touch models (WxDxH):</i> 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration <i>Touch models (WxDxH):</i> 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration											RoHS-compliant
Stand	<i>Optional Frame Stand:</i> Adjustable between 10° and 65° (Tilt) <i>Optional Monitor Stand:</i> Adjustable between -5° and 45° (Tilt) <i>Optional UltraFlex Stand:</i> Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management											Supports ThinkVantage Technologies
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
US model(s) announced August 27, 2013

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# ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Type-model	Pro-processor	Memory <sup>8</sup>	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card	Media reader	Stand type	Key-board/Mouse Global	Preload	Ann date (mm/dd/yy)
10BA000MUS	i5-4670S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	Frame	USB None	Win8 Pro64	08/27/13
10BA001MUS	i5-4570S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	N2230	Media	UltraFlex	USB None	Win8 Pro64	08/27/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4670S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b> Processor in LGA1150 socket											Windows® 8 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Web install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Password Manager</li> </ul>
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, <b>Intel HD Graphics 4400/4600</b> in processor, and <b>NVIDIA GeForce® GT 720A</b> , PCI Express® x16, <b>1GB</b> memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz</i>											<b>Preloaded applications</b> (only some listed)
Display	<b>21.5"</b> (546.1mm) <b>Full HD 1080p (1920x1080) TFT color</b> , wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector											<ul style="list-style-type: none"> <li>• ThinkVantage System Update</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Norton Internet Security (30 days of virus definitions)</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote®</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> <li>• AccuWeather</li> <li>• Norton™ Studio</li> </ul>
Light sensor	None											
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off											
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button											
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar											
Media reader	Optional 11-in-1 media card reader											
Chipset	<b>Intel B85 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in											
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader											
PCIe Mini Card	Two PCI Express® Mini Card slots											
PCIe WLAN	11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											
Intel AMT	None											
Security chip	None											<b>Security</b>
Keyboard	Preferred Pro USB Keyboard (USB connector), Lenovo® logo											<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo											
Power supply	180 watts, autosensing, 92% PSU											
Color	Business black color											
VESA mount	Support VESA mount (100mm)											
Dimensions and weight (without stand)	<i>Non-touch models (WxDxH):</i> 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration <i>Touch models (WxDxH):</i> 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration											<b>ENERGY STAR® 6.0-compliant</b>
Stand	<i>Optional Frame Stand:</i> Adjustable between 10° and 65° (Tilt) <i>Optional Monitor Stand:</i> Adjustable between -5° and 45° (Tilt) <i>Optional UltraFlex Stand:</i> Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management											EuP 2013 GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
Limited Warranty	<b>1-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
 US model(s) announced August 27, 2013

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# ThinkCentre E93z (10BH)

Product Specifications Reference (PSREF)

Type-model	Pro-cessor	Memory <sup>8</sup>	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/Mouse	Preload	Ann date (mm/dd/yy)
10BH0004US	i3-4130	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4400	N2230	Media	Frame	USB(slim)	Win7 P64 DG Win 8	07/15/14
10BH0005US	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N2230	Media	Frame	USB(slim)	Win7 P64 DG Win 8	07/15/14
10BH0006US	i5-4430S	4GBx1	21.5" FHD	None	2.0M	500G 7200	DVD±RW	HD 4600	N2230	Media	UltraFlex	USB(slim)	Win7 P64 DG Win 8	07/15/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>										
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</b> <b>Intel Core i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</b>										
Implementation	Processor in LGA1150 socket										
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)										
Graphics	<b>Intel HD Graphics 4400/4600</b> in processor, uses main memory, DirectX® 11.1, external digital monitor support via HDMI, supports dual independent display; <i>Max resolution: 1920x1080 (panel) @60Hz; 1920x1080 (HDMI) @60Hz</i> <b>21.5"</b> (546.1mm) <b>Full HD 1080p (1920x1080) TFT color</b> , wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector										
Display											
Light sensor	None										
Multi-touch	None										
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off										
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button										
Disk	SATA 3.0Gb/s, 2.5" Wide, 7200 rpm										
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable										
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar										
Media reader	Optional 11-in-1 media card reader										
Chipset	<b>Intel B85 Express Chipset</b>										
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in										
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader										
PCIe Mini Card	Two PCI Express® Mini Card slots										
PCIe WLAN	<i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</i> <i>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</i>										
Bluetooth	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®										
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified										
Intel AMT	None										
Security chip	None										
Keyboard	<i>Some: Lenovo® Slim New F5 USB Keyboard (USB connector), black</i> <i>Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo</i>										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo										
Power supply	150 watts, autosensing, 85% PSU										
Color	Business black color										
VESA mount	Support VESA mount (100mm)										
Dimensions and weight (without stand)	<i>Non-touch models (WxDxH):</i> 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration <i>Touch models (WxDxH):</i> 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration										
Stand	<i>Optional Frame Stand:</i> Adjustable between 10° and 65° (Tilt) <i>Optional Monitor Stand:</i> Adjustable between -5° and 45° (Tilt) <i>Optional UltraFlex Stand:</i> Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management										
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available										
	<b>Preloaded operating system</b> <i>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</i> <i>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</i>										
	<b>Ready to install applications (only some listed)</b> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul> <b>Preloaded applications (only some listed)</b> <ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> </ul>										
	<b>Security</b> <ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>										
	ENERGY STAR® 6.0-compliant										
	EuP 2013										
	GREENGUARD® certified										
	RoHS-compliant										
	Supports ThinkVantage Technologies										
	For compatible accessories, please go to TC-AQP sheet;										
	For Lenovo service upgrade options, please go to S-TC sheet										

See footnotes for important warranty information

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# ThinkCentre E93z (10BK) - Multi-touch (NVIDIA)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory <sup>8</sup>	Wide-screen display	Multi-Touch	Camera (mega-pixel)	Disk SATA GB rpm	SATA optical	Graphics	PCIe Mini Card WLAN	Media reader	Stand type	Key-board/Mouse	Global	Preload	Ann date (mm/dd/yy)
10BK0007US	i5-4430S	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	7260 b/g/n	Media	UltraFlex	USB(slim)	None	Win7 P64 DG Win 8.1	07/15/14
10BK0006US	i3-4130	4GBx1	21.5" FHD	Touch	2.0M	500G 7200	DVD±RW	GT 720A	7260 b/g/n	Media	UltraFlex	USB(slim)	None	Win7 P64 DG Win 8.1	07/15/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning	<i>Premium All-In-One PC for the enterprise</i>											<b>Preloaded operating system</b>
Processor	<b>Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),</b> Intel HD Graphics 4400, 1600MHz DDR3 memory controller <b>Intel Core i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache),</b> Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller											Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Implementation	Processor in LGA1150 socket											<b>Ready to install applications</b> (only some listed)
Memory	16GB max, <b>PC3-12800 1600MHz DDR3</b> , two 204-pin SODIMM sockets (notebook)											<ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Password Manager</li> </ul>
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, <b>Intel HD Graphics 4400/4600</b> in processor, and <b>NVIDIA GeForce® GT 720A</b> , PCI Express® x16, <b>1GB</b> memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display; <i>Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz</i>											<b>Preloaded applications</b> (only some listed)
Display	<b>21.5"</b> (546.1mm) <b>Full HD 1080p (1920x1080) TFT color</b> , wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector											<ul style="list-style-type: none"> <li>• ThinkVantage® Product Recovery</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Communication Utility</li> <li>• ThinkVantage Device Experience</li> <li>• ThinkVantage AutoLock</li> <li>• Desktop Power Manager</li> <li>• View Management Utility</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• Lenovo Message Center Plus</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• Cyberlink PowerDVD (DVD±RW, DVD)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Cyberlink PowerProducer (DVD±RW)</li> <li>• Evernote</li> <li>• Lenovo Solutions for Small Business</li> <li>• Nitro Pro</li> </ul>
Light sensor	None											
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch											
Camera	Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off											
Controls	Monitor mode / computer mode button, volume up/down buttons, and power button											
Disk	<i>Some:</i> SATA 3.0Gb/s, 2.5" Wide, 7200 rpm <i>Some:</i> 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide											
Optical	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable											
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar											
Media reader	Optional 11-in-1 media card reader											
Chipset	<b>Intel B85 Express Chipset</b>											
Rear ports	Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in											
Side ports	Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader											
PCIe Mini Card	Two PCI Express® Mini Card slots											
PCIe WLAN	<i>Some:</i> 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + BT4.0 combo, 2x2 <i>Some:</i> 11b/g/n wireless, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo, 2x2											
Bluetooth	Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter											
Ethernet	One gigabit ethernet port, Intel I217-V, Wake on LAN®											
Audio support	High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified											
Intel AMT	None											
Security chip	None											
Keyboard	<i>Some:</i> Lenovo® Slim New F5 USB Keyboard (USB connector), black <i>Some:</i> Preferred Pro USB Keyboard (USB connector), Lenovo logo <i>Some:</i> Ultralim Plus Wireless Keyboard (2.4GHz via USB receiver), black											<b>Security</b>
Mouse	<i>Some:</i> Enhanced Optical USB Mouse, black, Lenovo logo <i>Some:</i> Ultralim Plus Wireless Mouse (2.4GHz via USB receiver), black											<ul style="list-style-type: none"> <li>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)</li> <li>• Power-on password</li> <li>• Administrator password</li> <li>• Hard disk password</li> <li>• Boot sequence control</li> <li>• Boot without keyboard and mouse</li> <li>• Individual USB port disablement</li> </ul>
Power supply	180 watts, autosensing, 92% PSU											
Color	Business black color											
VESA mount	Support VESA mount (100mm)											
Dimensions and weight (without stand)	<i>Non-touch models (WxDxH):</i> 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration <i>Touch models (WxDxH):</i> 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration											ENERGY STAR® 6.0-compliant EuP 2013
Stand	<i>Optional Frame Stand:</i> Adjustable between 10° and 65° (Tilt) <i>Optional Monitor Stand:</i> Adjustable between -5° and 45° (Tilt) <i>Optional UltraFlex Stand:</i> Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management											GREENGUARD® certified RoHS-compliant
Limited Warranty	<b>3-years, limited onsite service</b> , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available											Supports ThinkVantage Technologies For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller systems. TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

*TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.*

For more information see:

<http://www2.partnerinfo.lenovo.com/partners/us/resources/salestoolkit.shtml>

<p><b><u>TopSeller service upgrade options for ThinkCentre M series</u></b></p> <p><b>ThinkCentre desktop with 1-year Onsite warranty</b>  <i>LOR = Lenovo Onsite Repair</i></p> <table border="0"> <tr> <td>3-year LOR 9x5 Next Business Day</td> <td>04W8710</td> </tr> <tr> <td>4-year LOR 9x5 Next Business Day</td> <td>04W8711</td> </tr> </table> <p><b>ThinkCentre desktop with 3-year Onsite warranty</b>  <i>LOR = Lenovo Onsite Repair</i></p> <table border="0"> <tr> <td>4-year LOR 9x5 Next Business Day</td> <td>04W8712</td> </tr> </table>	3-year LOR 9x5 Next Business Day	04W8710	4-year LOR 9x5 Next Business Day	04W8711	4-year LOR 9x5 Next Business Day	04W8712	<p><b>TopSeller Priority Support</b></p> <ul style="list-style-type: none"> <li>• 24x7 support with priority routing and advanced level technicians</li> </ul> <p><b>ThinkCentre desktop with 1-year Onsite warranty</b>            Add to 3-year warranty coverage - 3-year Priority Support* 04W8721            Add to 4-year warranty coverage - 4-year Priority Support* 04W8722</p> <p><b>ThinkCentre desktop with 3-year Onsite warranty</b>            Add to 3-year warranty coverage - 3-year Priority Support* 04W8721            Add to 4-year warranty coverage - 4-year Priority Support* 04W8722</p> <p>* Covered machine must have concurrent warranty coverage.</p>
3-year LOR 9x5 Next Business Day	04W8710						
4-year LOR 9x5 Next Business Day	04W8711						
4-year LOR 9x5 Next Business Day	04W8712						
<p><b><u>TopSeller service upgrade options for ThinkCentre A series and Edge series</u></b></p> <p><b>ThinkCentre desktop with 1-year Onsite warranty</b>  <i>LOR = Lenovo Onsite Repair</i></p> <table border="0"> <tr> <td>3-year LOR 9x5 Next Business Day</td> <td>04W8710</td> </tr> <tr> <td>4-year LOR 9x5 Next Business Day</td> <td>04W8711</td> </tr> </table> <p><b>ThinkCentre desktop with 3-year Onsite warranty</b></p> <table border="0"> <tr> <td>4-year LOR 9x5 Next Business Day</td> <td>04W8712</td> </tr> </table>	3-year LOR 9x5 Next Business Day	04W8710	4-year LOR 9x5 Next Business Day	04W8711	4-year LOR 9x5 Next Business Day	04W8712	
3-year LOR 9x5 Next Business Day	04W8710						
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4-year LOR 9x5 Next Business Day	04W8712						

**Partial list of Lenovo Services<sup>7</sup> for ThinkCentre desktops**

For more information see:

[http://www.lenovo.com/services\\_warranty/us/en/index.html](http://www.lenovo.com/services_warranty/us/en/index.html)

<p><b><u>Lenovo service upgrade options for ThinkCentre M series</u></b></p> <p><b>ThinkCentre desktop with 1-year Onsite warranty</b>  <i>Models with 7-digit MTM</i>                  2-year Onsite 9x5 Next Business Day                   41C9187                  3-year Onsite 9x5 Next Business Day                   41C9188  <i>Models with 10-digit MTM</i>                  2-year Onsite 9x5 Next Business Day                   5WS0D80992                  3-year Onsite 9x5 Next Business Day                   5WS0D80967</p> <p><b>ThinkCentre desktop with 3-year Onsite warranty</b>  <i>Models with 7-digit MTM</i>                  4-year Onsite 9x5 Next Business Day                   41C9194  <i>Models with 10-digit MTM</i>                  4-year Onsite 9x5 Next Business Day                   5WS0D81063</p>	<p><b><u>Lenovo service upgrade options for ThinkCentre A series and Edge series</u></b></p> <p><b>ThinkCentre desktop with 1-year Onsite warranty</b>  <i>LOR = Lenovo Onsite Repair</i>                  2-year Onsite 9x5 Next Business Day                   45K5949                  3-year Onsite 9x5 Next Business Day                   45K5950</p> <p><b>ThinkCentre desktop with 3-year Onsite warranty</b>  <i>LOR = Lenovo Onsite Repair</i>                  4-year Onsite 9x5 Next Business Day                   45K5957                  5-year Onsite 9x5 Next Business Day                   45K5963</p>
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**Lenovo Priority Support for enterprise customers**

- 24x7 support with priority routing and advanced level technicians

<b>ThinkCentre desktop with 1-year Onsite warranty</b>	
Add to 3-year warranty coverage - 3-year Priority Support*	45J9087
<b>ThinkCentre desktop with 3-year Onsite warranty</b>	
Add to 3-year warranty coverage - 3-year Priority Support*	45J9088
Add to 4-year warranty coverage - 4-year Priority Support*	45J9089
Add to 5-year warranty coverage - 5-year Priority Support*	45J9090

\* Covered machine must have concurrent warranty coverage.

### Disclaimer

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PSREF books for the withdrawn systems:

[http://www.lenovo.com/psref/psrefs\\_withdrawn.html](http://www.lenovo.com/psref/psrefs_withdrawn.html)

- Availability:** All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.
- Warranty:** For a copy of applicable product warranties, go to [http://support.lenovo.com/en\\_US/product-service/warranty-status/WarrantyPolicies.page](http://support.lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page). Lenovo makes no representation or warranty regarding third party products or services.
- <sup>1</sup> **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
  - <sup>2</sup> **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
  - <sup>3</sup> **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.
  - <sup>4</sup> **CD and DVD list** maximum rates; rates are variable and are often less than the maximum.
  - <sup>5</sup> **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.
  - <sup>7</sup> **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See lenovo terms and conditions for complete details and restrictions.
  - <sup>8</sup> **Memory:** For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.
  - <sup>9</sup> **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
  - <sup>10</sup> **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
  - <sup>11</sup> **For combination drives**, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.
  - <sup>12</sup> **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.
  - <sup>13</sup> **Wireless capability:** Requires compatible wireless-enabled options sold separately.
  - <sup>14</sup> **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.
  - <sup>15</sup> **Update Connector** is available at no charge to registered customers during the limited warranty period. Line charges may apply.
  - <sup>16</sup> **Embedded Security Subsystem** works with optional VPN software.

- <sup>18</sup> **Embedded Security Subsystem** may require download of client security software from the Web.
- <sup>19</sup> **Asset ID** allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- <sup>20</sup> **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to [lenovo.com/pc/support](http://lenovo.com/pc/support) and enter your machine type and model number for more information.

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Visit [www.lenovo.com/psref](http://www.lenovo.com/psref) for the latest version of Product Specifications Reference.

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