



ThinkCentre M82 Small and Tower



ThinkCentre®

Lenovo ThinkCentre M82
Small and Tower

Lenovo ThinkCentre M82 Tower
with Lenovo ThinkVision Monitor

Display-
Port Chassis Floor
dongle intr switch stand

Ann date
(mm/dd/yy)



Lenovo ThinkCentre M82 Small



Lenovo ThinkCentre M82 Small with Lenovo ThinkVision Monitor



Lenovo ThinkCentre M82 Tower



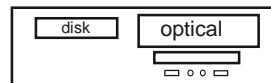
Lenovo ThinkCentre M82 Tower

ThinkCentre M82 Small (3306) - TopSeller - withdrawn

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB rpm	SATA optical	Media reader	Graphics	ENERGY STAR 5.2	Win7 Global preload					
3306-A1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	06/19/12
3306-A2U	4x3	i5-3470	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	06/19/12
3306-A3U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	06/19/12
3306-A4U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	None	None	Pro 64	06/19/12
3306-A5U	4x3	i5-3470	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7350	None	None	Stand	None	None	Pro 64	06/19/12
3306-A6U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 7350	None	None	Stand	None	None	Pro 64	06/19/12
3306-D1U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	None	None	Pro 64	07/10/12

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

		Display- Port dongle	Chassis intr	Floor switch stand	Ann date (mm/dd/yy)
Positioning	<i>Mainstream enterprise stability and manageability</i>				Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) <ul style="list-style-type: none"> ● Rescue and Recovery□ ● Password Manager Preloaded applications (only some listed) <ul style="list-style-type: none"> ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton□ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype□ for Windows ● Windows Live□ Essentials ● ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now□ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW) Security <ul style="list-style-type: none"> ● 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● <i>Chassis intrusion switch on selected model(s)</i>
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket				
Implementation	Processor in LGA1155 socket				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets				
Graphics	<i>Some:</i> Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort□, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz <i>Some:</i> AMD Radeon™ HD 7350 , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz; <i>Some:</i> works along with Intel HD Graphics to support up to four independent monitors 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>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I) @60Hz;				
DP dongle	None works along with Intel HD Graphics to support up to four independent monitors				
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector				
eSATA port	None				
Media reader	None				
Chipset	Intel Q75 Express Chipset				
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				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	Internal speaker for business audio				
IEEE 1394	None				
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®				
Manageability	Intel Standard Manageability				
Modem	None				
Security chip	Trusted Platform Module (TPM 1.2-compliant)				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo				
Floor Stand	System floor stand for vertical orientation				
Power supply	240 watts, autosensing, active Power Factor Correction				
Machine	<ul style="list-style-type: none"> ● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm 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 (45w 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	3-years, limited onsite service				



See footnotes for important warranty information
 US models announced June 19 or July 10, 2012

□Lenovo
 (MDTN-1-6) July 2012

Display-
Port Chassis Floor
dongle intr switch stand

Ann date
(mm/dd/yy)

ThinkCentre M82 Small (3306) - TopSeller - II - withdrawn

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Graphics	ENERGY STAR 5.2	Win7 Global preload
3306-B1U	4x3	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000 None	None	Stand Pro 64

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

Positioning *Mainstream enterprise stability and manageability*
 Processor **Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),**

integrated Intel HD Graphics 2000,
 integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
 Implementation Processor in LGA1155 socket
 Memory 32GB max, **UDIMM, PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
 Graphics **Intel HD Graphics 2000** in processor, uses main memory, HDCP, DirectX® 10.1,
 one VGA, one DisplayPort, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz
 DP dongle None
 Disk SATA 6.0Gb/s 7200rpm
 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 Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port
 None Media reader None
 Chipset **Intel Q75 Express Chipset**
 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
 Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
 Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
 Audio High Definition (HD) Audio, Realtek® ALC662 codec
 Speaker Internal speaker for business audio
 IEEE 1394 None
 Ethernet One gigabit ethernet port, Intel 82579, Wake on LAN®
 Manageability Intel Standard Manageability
 Modem None

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disk	optical
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	US model announced July 10, 2012
	Preloaded operating system

8 am-5 pm, Mon - Fri coverage excluding holidays
 next business day response time / service upgrades available



<p>Genuine Windows® 7 Professional 64</p> <p>Ready to install applications (only some listed)</p> <ul style="list-style-type: none"> ● Rescue and Recovery□ ● Password Manager <p>Preloaded applications (only some listed)</p> <ul style="list-style-type: none"> ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Norton□ Internet Security (30 days of virus definitions) ● Adobe® Reader® ● Skype□ for Windows ● Windows Live□ Essentials ● Microsoft® Office preloaded; purchase a product key to activate ● Corel® Burn.Now□ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW) 	<p>Display-Port dongle</p> <p>Chassis intr switch</p> <p>Floor stand</p> <p>Security</p> <ul style="list-style-type: none"> ● 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● <p><i>Chassis intrusion switch on selected model(s) GREENGUARD® certified RoHS-compliant</i></p> <p>Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>	<p>Ann date (mm/dd/yy)</p> <p>□Lenovo (MDTN1-12) November 2013</p>
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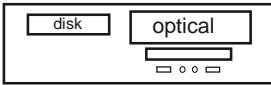
ThinkCentre M82 Small (3306) - TopSeller - III - withdrawn

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB rpm	SATA optical	Media reader	Graphics	ENERGY STAR 5.2	Win7 Global preload
3306-B2U 4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Pro 64 07/10/12
3306-B3U 4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	None	Pro 64 07/10/12
3306-F1U 4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Pro 64 09/04/12

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

<p>Positioning</p> <p>Processor</p> <p>Implementation</p> <p>Memory</p>	<p><i>Mainstream enterprise stability and manageability</i></p> <p>Intel® Core□ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</p> <p>32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets</p>	<p>Preloaded operating system</p> <p>Genuine Windows® 7 Professional 64</p> <p>Ready to install applications (only some listed)</p> <ul style="list-style-type: none"> ● Rescue and Recovery□ ● Password Manager <p>Preloaded applications (only some listed)</p> <ul style="list-style-type: none"> ● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility
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		Display- Port dongle	Chassis intr	Floor switch stand	Ann date (mm/dd/yy)
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort□, supports dual independent display;				<ul style="list-style-type: none"> • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton□ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype□ for Windows • Windows Live□ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now□ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
DP dongle	<i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @60Hz None				
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector				
eSATA port	None				
Media reader	None				
Chipset	Intel Q75 Express Chipset				
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				
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector				
Audio	High Definition (HD) Audio, Realtek® ALC662 codec				
Speaker	Internal speaker for business audio				
IEEE 1394	None				
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®				
Manageability	Intel Standard Manageability				
Modem	None				
Security chip	Trusted Platform Module (TPM 1.2-compliant)				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo				
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo				
Floor Stand	System floor stand for vertical orientation				
Power supply	240 watts, autosensing, active Power Factor Correction				
Machine	<ul style="list-style-type: none"> • Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm 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 				Security <ul style="list-style-type: none"> • 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• <i>Chassis intrusion switch on selected model(s)</i>
Bay	<ul style="list-style-type: none"> • Toolless adapter retention 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 (45w 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				
					GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet



3-years, limited onsite service

Limited Warranty

See footnotes for important warranty information

□Lenovo US models announced July 10 or September 4, 2012 (MDTN1-13) September 2012

ThinkCentre M82 Small (3306) - TopSeller (Win 8) - withdrawn

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Display-Port Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2Global	Preload	Ann date (mm/dd/yy)
3306-C1U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	Stand	None	Win8 Pro64	10/23/12
3306-F2U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	Stand	None	Win8 Pro64	10/23/12
3306-F3U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 4000	None	Stand	None	Win8 Pro64	10/23/12
3306-F4U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	Stand	None	Win8 Pro64	10/23/12
3306-G1U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	Stand	None	Win7 Pro64	10/23/12
3306-G2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	Stand	None	Win7 Pro64	10/23/12
3306-G3U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	Stand	None	Win7 Pro64	10/23/12
3306-H1U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	Stand	None	Win7 Pro64	03/05/13
3306-J1U	4x3	i7-3770	4GBx2 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	Stand	None	Win7 Pro64	03/12/13
3306-J2U	4x3	i5-3475S	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	Stand	None	Win7 Pro64	03/12/13

3306-J3U 4x3 i5-3475S 4GBx2 1600MHz 1TB 7200 DVD±RW None HD 7450 None None Stand None None Win7 Pro64 03/12/13 Positioning

Mainstream enterprise stability and manageability **Preloaded operating system**

Processor integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) **Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)**, *Some:* preinstalled through downgrade Windows® 7 Professional 64

<p>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Implementation Processor in LGA1155 socket</p> <p>Memory 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets Graphics</p> <p><i>Some: Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i></p> <p><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; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors</i></p> <p>DP dongle None</p> <p>Disk SATA 6.0Gb/s 7200 rpm</p> <p>Optical Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive</p> <p>SATA controller Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset</p> <p>Onboard SATA Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port</p> <p>None Media reader None</p> <p>Chipset Intel Q75 Express Chipset</p> <p>Front ports Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</p> <p>Rear ports Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort</p> <p>Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</p> <p>Internal Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), connector one internal DisplayPort connector</p> <p>Audio High Definition (HD) Audio, Realtek® ALC662 codec Speaker Internal speaker for business audio</p>	<p>Ethernet One gigabit ethernet port, Intel 82579, Wake on LAN®</p> <p>Manageability Intel Standard Manageability Security chip Trusted Platform Module (TPM 1.2-compliant)</p> <p>Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo</p> <p>Mouse Enhanced Optical USB Mouse, black, Lenovo logo</p> <p>Floor Stand System floor stand for vertical orientation</p> <p>Power supply 240 watts, autosensing, active Power Factor Correction</p> <p>M</p> <p>a</p> <p>c</p> <p>h</p> <p>i</p> <p>n</p> <p>e</p> <p>•</p> <p>B</p> <p>u</p> <p>s</p> <p>i</p> <p>n</p> <p>e</p> <p>s</p> <p>s</p> <p>b</p> <p>l</p>
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ThinkCentre M82 Tower (3302) - TopSeller - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB	2nd Disk rpm	Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
			ack color; metal case • 13.3" W X 15.2" D X 3.9" H											
			• 338mm W X 385mm 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					disk	optical					
Slot			Slot 1: Low Profile, PCI Express 2.0 x16 (45w 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											

- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate
- Skype

- Security**
- 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 model(s) GREENGUARD® certified RoHS-compliant
- Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet;

- rights in Windows 8 Pro 64-bit
- Some: Windows 8 Pro 64-bit **Preloaded applications** (only some listed) - **Windows 7 models** • ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
 - ThinkVantage Power Manager
 - Lenovo® AppShop
 - Lenovo Message Center Plus
 - Lenovo SimpleTap
 - Adobe® Reader®
 - Windows Live™ Essentials
 - Corel® Burn.Now™ (DVD±RW)
 - Corel DVD MovieFactory® (DVD±RW) - **Windows 8 models**
 - Lenovo Support
 - Lenovo Companion
 - Lenovo Cloud Storage
 - Norton™ Studio
 - AccuWeather • Evernote®
 - Cyberlink Power2Go (DVD±RW)
 - Cyberlink PowerProducer (DVD±RW) - **All models** • ThinkVantage System Update

Limited Warranty **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next For Lenovo service upgrade options, business day response time / service upgrades available please go to S-TC sheet

See footnotes for important warranty information

Type-model	Processor	Memory	SATA disk GB	2nd Disk rpm	Disk Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload (mm/dd/yy)	Ann date (mm/dd/yy)
3302-A1U 4x5 Pro 64	i5-3470	4GBx1	1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None
3302-A2U 4x5 Pro 32	i5-3470	4GBx1	1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None
3302-A3U 4x5	i5-3470	4GBx2	1600MHz	1TB	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None
3302-A4U 4x5	i5-3470	4GBx2	1600MHz	1TB	7200	Bay	DVD±RW	None	HD 7350	None	None	None	Pro 64
3302-A5U 4x5	i5-3470	4GBx2	1600MHz	1TB	7200	Bay	DVD±RW	None	HD 7450	None	None	None	None

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



8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



, 8 am-5 pm, Mon - Fri coverage excluding holidays,
next business day response time / service upgrades available

Positioning	<i>Mainstream enterprise stability and manageability</i>
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, 8 am-5 pm, Mon - Fri coverage excluding holidays,
next business day response time / service upgrades available

Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),	Preloaded operating system
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, 8 am-5 pm, Mon - Fri coverage excluding holidays,
next business day response time / service upgrades available

Implementation	Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500,	
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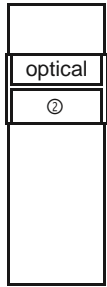


, 8 am-5 pm, Mon - Fri coverage excluding holidays,
next business day response time / service upgrades available

integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology



, 8 am-5 pm, Mon - Fri coverage excluding holidays,
next business day response time / service upgrades available

Processor in LGA1155 socket	
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Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets	Preloaded operating system <i>Some:</i> Genuine Windows® 7 Professional 32 <i>Some:</i> Genuine Windows 7 Professional 64 Ready to install applications (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery□ • Password Manager Preloaded applications (only some listed) <ul style="list-style-type: none"> • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton□ Internet Security (30 days of virus definitions) <ul style="list-style-type: none"> • Adobe® Reader® • Skype□ for Windows • Windows Live□ Essentials • • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now□ (DVD±RW) <ul style="list-style-type: none"> • Corel DVD MovieFactory® (DVD±RW)
Graphics	<i>Some:</i> Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort□, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA)@60Hz <i>Some:</i> AMD Radeon□ HD 7350 , DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; <i>Some:</i> works along with Intel HD Graphics to support up to four independent monitors 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>Maximum resolution:</i> 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors	
DP dongle	None	
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	
eSATA port	None	
Media reader	None	
Chipset	Intel Q75 Express Chipset	
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	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Manageability	Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Machine	<ul style="list-style-type: none"> • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention 	
Bay	<ul style="list-style-type: none"> • Toolless disk, optical drive removal 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 	
Slot	<ul style="list-style-type: none"> Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w 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 	
		
	<p>3-years, limited onsite service</p> <p>Limited Warranty</p>	
	<p>See footnotes for important warranty information</p> <p>US models announced June 19, 2012</p>	
	<p>□Lenovo (MDTN1-9) June 2012</p>	
	 	
	<p>, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</p>	

Security

- 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)
- Cable lock
- Power-on 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)

GREENGUARD® certified RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

ThinkCentre M82 Tower (3302) - TopSeller - II - withdrawn

Product Specifications Reference (PSREF)

Slot x	SATA disk	2nd Disk	SATA	Media	Display- Chassis	Port intrusion ENERGY	Win7	Ann date		
Type-model	bay	Processor	Memory ⁸	GB rpm	Bay	optical	reader Graphics	dongle	switch STAR 5.2 Global	preload (mm/dd/yy)

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

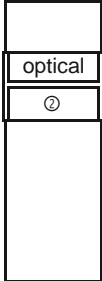
Positioning	<i>Mainstream enterprise stability and manageability</i>								Preloaded operating system
Processor	Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology								Genuine Windows® 7 Professional 64
Implementation	Processor in LGA1155 socket								Ready to install applications (only some listed)
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets								● Rescue and Recovery™ ● Password Manager
Graphics	Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>								Preloaded applications (only some listed)
DP dongle	None								● ThinkVantage® Product Recovery ● ThinkVantage System Update ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● View Management Utility ● Lenovo AppShop ● Lenovo Solution Center ● Lenovo Message Center Plus ● Lenovo SimpleTap
Disk	SATA 6.0Gb/s 7200 rpm								● Norton™ Internet Security (30 days of virus definitions)
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive								● Adobe® Reader® ● Skype™ for Windows ● Windows Live™ Essentials ●
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset								Microsoft® Office preloaded; purchase a product key to activate ● Corel®
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector								Burn.Now™ (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)
eSATA port	None								
Media reader	None								
Chipset	Intel Q75 Express Chipset								
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								
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)								
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector								
Audio	High Definition (HD) Audio, Realtek® ALC662 codec								
Speaker	Internal speaker for business audio								
IEEE 1394	None								
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®								
Manageability	Intel Standard Manageability								
Modem	None								
Security chip	Trusted Platform Module (TPM 1.2-compliant)								
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo								
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo								
Power supply	280 watts with variable speed fan, manual switch								
Machine	<ul style="list-style-type: none"> ● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration 								



, 8 am-5 pm, Mon - Fri coverage excluding holidays,
next business day response time / service upgrades available

ThinkCentre M82 Tower (3302) - TopSeller - III - withdrawn

Product Specifications Reference (PSREF)

Slot x	SATA disk	2nd Disk	SATA	Media	Display-Port	Chassis intrusion	ENERGY STAR	Win7	Ann date			
Type-model	bay	Processor	Memory ⁸	GB rpm	Bay	optical	reader	Graphics	dongle	switch	5.2 Global	preload (mm/dd/yy)
Bay		<ul style="list-style-type: none"> • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal 										
Slot		<ul style="list-style-type: none"> • 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 1: half-length, full-height, PCI Express 2.0 x16 (75w 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 										
										Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement <i>Chassis intrusion switch on selected model(s)</i>		
Limited Warranty 3-years, limited onsite service										GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information

US model announced July 10, 2012

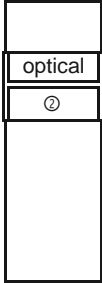
3302-B2U 4x5	i5-3570	4GBx1	1600MHz	1TB	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	07/10/12
3302-B3U 4x5	i7-3770	4GBx1	1600MHz	1TB	7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Pro 64	07/10/12
3302-E1U 4x5	i3-3220	4GBx1	1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Pro 64	09/04/12

• 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>										Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery • Password Manager Preloaded applications (only some listed) <ul style="list-style-type: none"> • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo AppShop • Lenovo Solution Center
Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										
Implementation	Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort, supports dual independent display;										
DP dongle	<i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> None										



8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Disk	SATA 6.0Gb/s 7200 rpm	<ul style="list-style-type: none"> • Lenovo Message Center Plus • Lenovo SimpleTap • Norton Internet Security (30 days of virus definitions) • Adobe Reader • Skype for Windows • Windows Live Essentials • Microsoft Office preloaded; purchase a product key to activate • Corel Burn.Now (DVD±RW) • Corel DVD MovieFactory (DVD±RW)
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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	
eSATA port	None	
Media reader	None	
Chipset	Intel Q75 Express Chipset	
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	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	
Audio	High Definition (HD) Audio, Realtek ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN	
Manageability	Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Machine	<ul style="list-style-type: none"> • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention 	Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington MicroSaver cable) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement <i>Chassis intrusion switch on selected model(s)</i>
Bay	<ul style="list-style-type: none"> • Toolless disk, optical drive removal 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 	
Slot	<ul style="list-style-type: none"> Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w 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 	
		
3-years, limited onsite service		GREENGUARD certified RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet
Limited Warranty		
See footnotes for important warranty information		

□Lenovo US models announced July 10 or September 4, 2012 (MDTN1-15) September 2012



, 8 am-5 pm, Mon - Fri coverage excluding holidays,
next business day response time / service upgrades available

ThinkCentre M82 Tower (3302) - TopSeller (Win 8) - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB	2nd Disk rpm	Bay	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3302-C1U	4x5	i5-3470	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3302-E2U	4x5	i3-3220	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3302-E3U	4x5	i5-3570	4GBx1 1600MHz	1TB	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win8 Pro64	10/23/12
3302-F1U	4x5	i3-3220	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3302-F2U	4x5	i5-3470	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3302-F3U	4x5	i5-3570	4GBx1 1600MHz	1TB	7200	Bay	DVD±RW	None	HD 2500	None	None	None	None	Win7 Pro64	10/23/12
3302-H1U	4x5	i5-3475S	4GBx1 1600MHz	500G	7200	Bay	DVD±RW	None	HD 4000	None	None	None	None	Win7 Pro64	03/12/13

•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>										Preloaded operating system				
Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket										Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit				
Implementation											Preloaded applications (only some listed) - Windows 7 models <ul style="list-style-type: none"> • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® 				
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										<ul style="list-style-type: none"> • Windows Live™ Essentials 				
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display;										<ul style="list-style-type: none"> • Core™ Burn.Now™ (DVD±RW) • Core™ DVD MovieFactory® (DVD±RW) 				
DP dongle	<i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i> None										- Windows 8 models <ul style="list-style-type: none"> • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton™ Studio • AccuWeather• Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) 				
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector														
eSATA port	None														
Media reader	None														
Chipset	Intel Q75 Express Chipset														
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														
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector														
Audio	High Definition (HD) Audio, Realtek® ALC662 codec														
Speaker	Internal speaker for business audio														
IEEE 1394	None														
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Manageability	Intel Standard Manageability														
Modem	None														
Security chip	Trusted Platform Module (TPM 1.2-compliant)														
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo														
Power supply	280 watts with variable speed fan, manual switch										Security				

Machine	<ul style="list-style-type: none"> • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention 		<ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement 																																				
Bay	<ul style="list-style-type: none"> • Toolless disk, optical drive removal 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 		<ul style="list-style-type: none"> • Chassis intrusion switch on selected model(s) 																																				
Slot	<ul style="list-style-type: none"> Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w 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 	<ul style="list-style-type: none"> • GREENGUARD® certified RoHS-compliant • Supports ThinkVantage Technologies 																																					
Limited Warranty	3-years, limited onsite service next business day response time / service upgrades available	<ul style="list-style-type: none"> • For compatible accessories, please go to O-M82 sheet; • For Lenovo service upgrade options, please go to S-TC sheet 																																					
<p>See footnotes for important warranty information □Lenovo US models announced October 23, 2012 or March 12, 2013 (MDTN1-20) March 2013</p> <table border="1"> <tr> <td>3395-A2U 4x3</td> <td>i3-2130</td> <td>4GBx1</td> <td>1600MHz</td> <td>500G</td> <td>7200</td> <td>DVD±RW</td> <td>None</td> <td>HD 2000</td> <td>None</td> <td>Speaker</td> <td>Internal speaker for business audio</td> </tr> <tr> <td>None</td> <td>3395-C6U 4x3</td> <td>i3-2120</td> <td>2GBx1</td> <td>1600MHz</td> <td>250G</td> <td>7200</td> <td>DVD±RW</td> <td>None</td> <td>None</td> <td>IEEE 1394</td> <td>None</td> </tr> <tr> <td>3395-C7U 4x3</td> <td>G850</td> <td>2GBx1</td> <td>1600MHz</td> <td>250G</td> <td>7200</td> <td>DVD±RW</td> <td>None</td> <td>Intel HD</td> <td>None</td> <td>Ethernet</td> <td>One gigabit ethernet port, Intel 82579, Wake on LAN®</td> </tr> </table> <p>•3-year limited warranty</p>				3395-A2U 4x3	i3-2130	4GBx1	1600MHz	500G	7200	DVD±RW	None	HD 2000	None	Speaker	Internal speaker for business audio	None	3395-C6U 4x3	i3-2120	2GBx1	1600MHz	250G	7200	DVD±RW	None	None	IEEE 1394	None	3395-C7U 4x3	G850	2GBx1	1600MHz	250G	7200	DVD±RW	None	Intel HD	None	Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
3395-A2U 4x3	i3-2130	4GBx1	1600MHz	500G	7200	DVD±RW	None	HD 2000	None	Speaker	Internal speaker for business audio																												
None	3395-C6U 4x3	i3-2120	2GBx1	1600MHz	250G	7200	DVD±RW	None	None	IEEE 1394	None																												
3395-C7U 4x3	G850	2GBx1	1600MHz	250G	7200	DVD±RW	None	Intel HD	None	Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®																												
Positioning	Mainstream enterprise stability and manageability			Mouse	Enhanced Optical USB Mouse, black, Lenovo logo																																		
Processor	Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache) , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache) , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache) , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology			Floor Stand	System floor stand for vertical orientation																																		
Implementation	Processor in LGA1155 socket			Power supply	240 watts, autosensing, active Power Factor Correction																																		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets			Machine	<ul style="list-style-type: none"> • Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm 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 																																		
Graphics	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort□, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i>			Bay	<ul style="list-style-type: none"> 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 																																		
DP dongle	None			Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)																																		
Disk	SATA 6.0Gb/s 7200 rpm			Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort																																		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)																																		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset			Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector																																		
Onboard SATA connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port			Audio	High Definition (HD) Audio, Realtek® ALC662 codec																																		
None Media reader	None																																						
Chipset	Intel Q75 Express Chipset																																						

Slot x Type-model	bay Processor	Processor	Memory [®]	SATA disk GB rpm	SATA optical	Media reader	Display- Port Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Win7 Global preload	Ann date (mm/dd/yy)
Stand	None	None	Pro 64	06/19/12	Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)			3395-D5U	4x3	i5-3470 4GBx1	1600MHz
Stand	None	None	Pro 64	06/19/12	disk		optical				500G	
Stand	None	None	Pro 32	06/19/12		Slot 2: Low Profile, PCIe 2.0 x1			7200		DVD±RW	None
						Slot 3: Low Profile, 32-bit PCI 2.3					HD 2500	None
						Slot 4: Low Profile, 32-bit PCI 2.3					None	None
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												
US models announced June 19, 2012												

Preloaded operating system

Some: Genuine Windows[®] 7 Professional 32

Some: Genuine Windows 7 Professional 64

● 3-year limited warranty

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
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton[®] Internet Security (30 days of virus definitions)
- Adobe[®] Reader[®]
- Skype[®] for Windows
- Windows Live[®] Essentials
- Microsoft[®] Office preloaded; purchase a product key to activate
- Corel[®] Burn.Now[®] (DVD±RW)
- Corel DVD MovieFactory[®] (DVD±RW)

Positioning *Mainstream enterprise stability and manageability*

Processor **Intel[®] Core[®] i5-3470 Processor** (4 cores / 4 threads, 3.2GHz, 6MB cache),

Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500,

integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500,

integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Processor in LGA1155

Security

- 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 model(s) GREENGUARD[®] certified RoHS-compliant

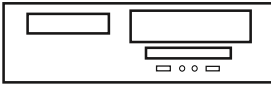
Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

										□ Lenovo Implementation (MDTN1-7) June 2012 socket			
3395-C4U	4x3	i5-3550	4GBx1	1600MHz	500G	7200	DVD±RW	None	HD 2500	None	None	Memory 32GB max, UDIMM,	
3395-C5U	4x3	i5-3550	2GBx1	1600MHz	250G	7200	DVD±RW	None	HD 2500	None	None	PC3-12800 1600MHz DDR3 , four	

ThinkCentre M82 Small (3395) - II - withdrawn

Product Specifications Reference (PSREF)

Slot x	Processor	Memory ⁶	SATA disk GB rpm	SATA optical	Media reader	Display-Port Graphics dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Win7 Global preload	Ann date (mm/dd/yy)
240-pin DIMM sockets	Graphics		Intel HD Graphics 2500								
DirectX [®] 11, one VGA, one DisplayPort [™]											
DP dongle	None										
Disk	SATA 6.0Gb/s 7200 rpm										
Optical	Super Multi-Burner DL DVD±RW										
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset										
Onboard SATA reader	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector										
Chipset	Intel Q75 Express Chipset										
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										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek [®] ALC662 codec										
Speaker	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN [®]										
Manageability	Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo [®] logo										
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo Floor Stand System floor stand for vertical orientation										
Power supply	240 watts, autosensing, active Power Factor Correction										
Machine	<ul style="list-style-type: none"> Business black color; metal case 13.3" W X 15.2" D X 3.9" H 338mm W X 385mm 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 (45w 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										



Preloaded operating system
 Some: Genuine Windows[®] 7 Professional 32
 Some: Genuine Windows 7 Professional 64

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
 • Lenovo AppShop
 • Lenovo Solution Center
 • Lenovo Message Center Plus
 • Lenovo SimpleTap
 • Norton[™] Internet Security (30 days of virus definitions) • Adobe[®] Reader[®]
 • Skype[™] for Windows
 • Windows Live[™] Essentials • Microsoft[®] Office preloaded; purchase a product key to activate • Corel[®] Burn.Now[™] (DVD±RW)
 • Corel DVD MovieFactory[®] (DVD±RW)

Security
 • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington[®] MicroSaver[®] cable)

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
 US models announced June 19 or July 10, 2012

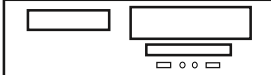
Stand	None	None	Pro 64	06/19/12
Stand	None	None	Pro 64	06/19/12
Stand	None	None	Pro 32	06/19/12
Stand	None	None	Pro 32	06/19/12
Stand	None	None	Pro 64	07/10/12

- 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 model(s) GREENGUARD[®] certified RoHS-compliant

Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

(MDTN1-8) July 2012

ThinkCentre M82 Small (3395) - Windows 8 - withdrawn

Slot x	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Display-Port Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
3395-H7U 4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	None	Win8 Pro64	10/23/12
3395-N1U 4x3	i3-2130	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	Stand	None	Win7 Pro64	10/23/12
3395-N2U 4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	Stand	None	Win7 Pro64	10/23/12
3395-N3U 4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	Stand	None	Win7 Pro64	10/23/12
3395-AAU 4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	Stand	None	Win8 Pro64	11/27/12
3395-R1U 4x3	G2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	Stand	None	Win7 Pro64	12/04/12
3395-R2U 4x3	G2020	4GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	Stand	None	Win7 Pro64	01/22/13
3395-CAU 4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	Stand	None	Win7 Pro64	03/05/13
3395-DAU 4x3	i5-3475S	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	Stand	None	Win7 Pro64	03/12/13
Positioning	<i>Mainstream enterprise stability and manageability</i>										
Processor	<p>Intel® Pentium® G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz)</p> <p>Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz)</p> <p>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz)</p> <p>Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz)</p> <p>Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)</p> <p>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>										
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 (45w 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>										
Implementation	Processor in LGA1155 socket										
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets										
Graphics	Intel HD Graphics / 2000 / 2500 / 4000 in processor, uses main memory, one VGA, one DisplayPort, supports dual independent display;										
DP dongle	None										
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port										
Media reader	None										
Chipset	Intel Q75 Express Chipset										
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										
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)										
Internal	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), connector one internal DisplayPort connector										
Audio	High Definition (HD) Audio, Realtek® ALC662 codec Speaker										
	Internal speaker for business audio										
IEEE 1394	None										
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN® Manageability Intel Standard Manageability										
Modem	None										
Security chip	Trusted Platform Module (TPM 1.2-compliant)										
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, 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, active Power Factor Correction										
Machine	<ul style="list-style-type: none"> Business black color; metal case 13.3" W X 15.2" D X 3.9" H 										
											
	<ul style="list-style-type: none"> 338mm W X 385mm 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 										
	<p>Preloaded operating system</p> <p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p>Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models</p> <ul style="list-style-type: none"> ThinkVantage® Product Recovery ThinkVantage Communication Utility ThinkVantage Power Manager Lenovo® AppShop Lenovo Message Center Plus <p>Windows 8 models</p> <ul style="list-style-type: none"> Lenovo Support Lenovo Companion Lenovo Cloud Storage Norton® Studio AccuWeather® Evernote® 										

- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW) - **All models** • ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate
- Skype

- 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 model(s)* GREENGUARD® certified

RoHS-compliant
 Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet;

Security

Limited Warranty **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next For Lenovo service upgrade options, business day response time / service upgrades available please go to S-TC sheet

See footnotes for important warranty information □Lenovo US models announced Oct 23, 2012, Nov 27, 2012, Dec 4, 2012, Jan 22, 2013, Mar 5, 2013, or Mar 12 2013 (MDTN1-17) March 2013

ThinkCentre M82 Small (2756) - ENERGY STAR 5.2 - withdrawn

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB rpm	SATA optical	Media reader	Display-Port Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Win7 Global preload	Ann date (mm/dd/yy)
2756-D3U 4x3	i3-2120	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Onboard SATA	Two		
None 2756-D4U 4x3		G850 2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	None		
Intel HD None	None	None							eSATA port	None		
2756-D5U 4x3	G630	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Media reader	None		
2756-D6U 4x3	i3-2120	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Chipset	Intel Q75 Express Chipset		
									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		
									Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
									Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector		
Positioning	<i>Mainstream enterprise stability and manageability</i>											
Processor	Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache) , integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache) , integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache) , integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket											
Implementation	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets											
Memory	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort□, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i>											
Graphics	Audio High Definition (HD) Audio, Realtek® ALC662 codec											
DP dangle	None											
Disk	SATA 6.0Gb/s 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											
	Speaker Internal speaker for business audio											
	IEEE 1394 None											
	Ethernet One gigabit ethernet port, Intel 82579, Wake on LAN®											
	Manageability Intel Standard Manageability											
	Modem None											

•3-year limited warranty

• 3-year limited warranty

Product Specifications Reference (PSREF)

Stand	ES52	None	Pro 64	06/05/12
Stand	ES52	None	Pro 64	06/05/12
Stand	ES52	None	Pro 64	06/05/12
Stand	ES52	None	Pro 64	06/05/12
Stand	ES52	None	Pro 32	06/05/12
Stand	ES52	None	Pro 32	06/05/12
Stand	ES52	None	Pro 32	06/05/12
Stand	ES52	None	Pro 64	06/05/12
Stand	ES52	None	Pro 64	06/05/12

Positioning *Mainstream enterprise stability and manageability*
 Processor **Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),**
 Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500,
 integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),
 Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500,
 integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),
 Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500,
 integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),
 Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000,
 integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Implementation Processor in LGA1155 socket
 Memory 32GB max, **UDIMM, PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
 Graphics **Intel HD Graphics 2500 or Intel HD Graphics 4000** in processor, uses main memory,

DirectX® 11, one VGA, one DisplayPort, supports dual independent display;
Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz

DP dongle None
 Disk SATA 6.0Gb/s 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 Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s
 connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port
 None Media reader None

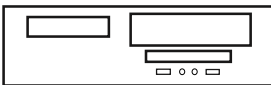
Chipset **Intel Q75 Express Chipset**
 Front ports Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
 Rear ports Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
 Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
 Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one
 internal DisplayPort connector

Audio High Definition (HD) Audio, Realtek® ALC662 codec
 Speaker Internal speaker for business audio
 IEEE 1394 None
 Ethernet One gigabit ethernet port, Intel 82579, Wake on LAN®
 Manageability Intel Standard Manageability
 Modem None

Security chip Trusted Platform Module (TPM 1.2-compliant)
 Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, 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 • Business black color; metal case
 • 13.3" W X 15.2" D X 3.9" H
 • 338mm W X 385mm 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 (45w 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



Preloaded operating system
 Some: Genuine Windows® 7 Professional 32
 Some: Genuine Windows 7 Professional 64

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
 • Lenovo AppShop
 • Lenovo Solution Center
 • Lenovo Message Center Plus
 • Lenovo SimpleTap
 • Norton Internet Security (30 days of virus definitions)
 • Adobe® Reader®
 • Skype for Windows
 • Windows Live Essentials • Microsoft Office preloaded; purchase a product key to activate
 • Corel® Burn.Now (DVD±RW)

Corel DVD MovieFactory® (DVD±RW)

Security
 • 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

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
 US models announced June 5, 2012
 Stand ES52 None Pro 64 06/05/12

• Boot without keyboard and mouse
 • Individual USB port disablement
 • Chassis intrusion switch on selected model(s)
 EPEAT Gold rating
 ENERGY STAR® 5.2-compliant
 ULE Gold
 GREENGUARD® certified RoHS-compliant

Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

Product Specifications Reference (PSREF)
Windows® 8 Pro 64-bit

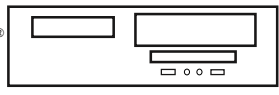
Preloaded applications (only some listed)

- Lenovo • ThinkVantage® System Update
- View Management Utility

(MDTN1-2) November 2012

ThinkCentre M82 Small (2756) - ES 5.2 (Win 8) - withdrawn

Slot x	Type-model	bay	Processor	Memory [®]	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port	Chassis intr	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
	2756-J2U	4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
	2756-L4U	4x3	i3-3220	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
	2756-L5U	4x3	i3-3240	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
	2756-L6U	4x3	i5-3570	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
	2756-L7U	4x3	i7-3770	4GBx1 1600MHz	1TB 7200	DVD±RW	None	HD 7450	None	None	Stand	ES52	None	Win8 Pro64 10/23/12
				<ul style="list-style-type: none"> • 3-year limited warranty • Lenovo® Support • Lenovo Companion • Lenovo Cloud Storage • Lenovo QuickLaunch • Lenovo Solution Center • Microsoft® Office preloaded; purchase a product key to activate • Norton® Internet Security (30 days of virus definitions) • Norton Studio • Intel AppUp® • AccuWeather • PC Device Stage • Evernote® • Skype • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) 										
Positioning	Mainstream enterprise stability and manageability													
Processor	<p>Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p>Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller</p> <p>Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>													
Implementation	Processor in LGA1155 socket													
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets													
Graphics	<p>Some: Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i></p> <p>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>Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz; Preloaded operating system</i></p>													
DP dongle	None											Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Disk	SATA 6.0Gb/s 7200 rpm											Mouse Enhanced Optical USB Mouse, black, Lenovo logo		
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive											Floor Stand		
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset											System floor stand for vertical orientation		
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port											Power supply		
Chipset	Intel Q75 Express Chipset													
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													
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)													
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector													
Audio	High Definition (HD) Audio, Realtek® ALC662 codec													
Speaker	Internal speaker for business audio													
IEEE 1394	None													
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®													
Manageability	Intel Standard Manageability													
Modem	None													
Security chip	Trusted Platform Module (TPM 1.2-compliant)													



240 watts, autosensing, 85% PSU

Machine

- Business black color; metal case
- 13.3" W X 15.2" D X 3.9" H
- 338mm W X 385mm 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 disk optical

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 (45w 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 **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 models announced October 23, 2012

Security

- 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 model(s)* EPEAT® Gold rating

ENERGY STAR® 5.2-compliant
 ULE Gold

GREENGUARD® certified RoHS-compliant

Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

□Lenovo
 (MDTN1-18) October 2012

integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500,
 integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500,
 integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000,

ThinkCentre M82 Small (2756) - ES 5.2 (Win 8) - II - withdrawn

Type-model	Slot x bay	Processor	Memory®	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display-Port dongle	Chassis intr	Floor stand	ENERGY STAR 5.2 Global	Preload	Ann date (mm/dd/yy)
2756-N3U	4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N4U	4x3	i3-2130	4GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N5U	4x3	i3-2130	2GBx1 1600MHz	250G 7200	DVD±RW	None	HD 2000	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N6U	4x3	G870	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N7U	4x3	G640	2GBx1 1600MHz	250G 7200	DVD±RW	None	Intel HD	None	None	Stand	ES52	None	Win7 Pro64 10/23/12
2756-N8U	4x3	i7-3770	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 4000	None	None	Stand	ES52	None	Win7 Pro64 10/23/12

2756-N9U 4x3 i5-3470 2GBx1 1600MHz 250G 7200 DVD±RW None HD 2500 None None Stand ES52 None Win7 Pro64 10/23/12
 •3-year limited warranty

Positioning *Mainstream enterprise stability and manageability*

Processor **Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache),** integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache),** integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),** integrated Intel HD Graphics 2000,

Implementation Processor in LGA1155 socket
 Memory 32GB max, **UDIMM, PC3-12800 1600MHz DDR3,** four 240-pin DIMM sockets Graphics **Intel HD Graphics / 2000 / 2500 / 4000** in processor, uses main memory,

Product Specifications Reference (PSREF)

one VGA, one DisplayPort, supports dual independent display;
 Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz

DP dongle None

Disk SATA 6.0Gb/s 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 Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port None Media reader None

Chipset **Intel Q75 Express Chipset**

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

Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector

Audio High Definition (HD) Audio, Realtek® ALC662 codec

Speaker Internal speaker for business audio

IEEE 1394 None

Ethernet One gigabit ethernet port, Intel 82579, Wake on LAN®

Manageability Intel Standard Manageability

Modem None

Security chip Trusted Platform Module (TPM 1.2-compliant)

Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo

Mouse Enhanced Optical USB Mouse, black, Lenovo logo

- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo® AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton Internet Security (30 days of virus definitions) • Adobe® Reader®
- Skype for Windows
- Windows Live Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

ThinkCentre M82 Small (2929) - ES 5.2 (GMP) - withdrawn

Slot x	SATA disk	SATA	Media	Display-Port	Chassis	Floor stand	ENERGY STAR 5.2	Global (G)	Win7	Ann date
Type-model bay Processor Memory ³	GB rpm	optical	reader	Graphics dongle	intr switch			GMP (P)	preload	(mm/dd/yy)
2929-A1U 4x3 i5-3550 4GBx1 1600MHz	500G 7200 DVD±RW	None	HD 2500	None	None	Stand	ES52	G P	Pro 64	06/05/12
2929-B1U 4x3 i5-3470 4GBx1 1600MHz	500G 7200 DVD±RW	None	HD 2500	None	None	None	None	Stand	ES52	G P
Pro 64 06/19/12 2929-D1U 4x3	i5-3570 4GBx1 1600MHz	500G 7200 DVD±RW	None	HD 2500	None	None	None	HD 2500	None	None
	Stand	ES52	G P	Pro 64	08/14/12					

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

Floor Stand System floor stand for vertical orientation

Power supply 240 watts, autosensing, 85% PSU

Machine

- Business black color; metal case
- 13.3" W X 15.2" D X 3.9" H
- 338mm W X 385mm 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 disk optical

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 (45w 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 **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

- Security**
- 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 model(s) EPEAT® Gold rating
- ENERGY STAR® 5.2-compliant
- ULE Gold
- GREENGUARD® certified RoHS-compliant
- Supports ThinkVantage Technologies
- For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US models announced October 23, 2012

Preloaded operating system Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit **Ready to install applications** (only some listed)

- Rescue and Recovery • Password Manager

Preloaded applications (only some listed)

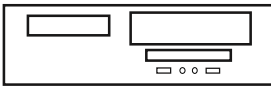
- ThinkVantage® Product Recovery
- ThinkVantage System Update

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(MDTN1-24) October 2012

Positioning *Mainstream enterprise stability and manageability*

Processor	<p>Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p> <p>Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</p>
Implementation	Processor in LGA1155 socket
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>
DP dongle	None
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port
Chipset	None Media reader None
Chipset	Intel Q75 Express Chipset
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
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, 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"> • Business black color; metal case • 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm 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	<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 (45w max)</p> <p>Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3</p> <p>optical Slot 4: Low Profile, 32-bit PCI 2.3</p>



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
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype for Windows
- Windows Live Essentials
- Microsoft Office preloaded; purchase a product key to activate
- Corel® Burn.Now (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- 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 model(s) EPEAT® Gold rating

ENERGY STAR® 5.2-compliant
ULE Gold
GREENGUARD® certified RoHS-compliant
Supports ThinkVantage Technologies
For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

Limited Warranty **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

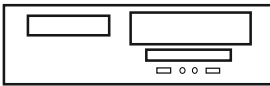
See footnotes for important warranty information

US models announced June 5, June 19, or August 14, 2012

Preloaded operating system

Genuine Windows® 7 Professional 64

ThinkCentre M82 Small (2929) - ES 5.2 (GMP) - Win 8 - withdrawn

Slot x	Processor	Memory ^a	SATA disk GB rpm	SATA optical	Media reader	Display-Port Graphics	Chassis intr switch	Floor stand	ENERGY Global (G) STAR 5.2 GMP (P) Preload ES52 G P W Pro64 ES52 G P W Pro64
2929-C1U 4x3	i5-3470 4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	
2929-E1U 4x3	i5-3470 4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	
<p>●Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty</p>									
Positioning	Mainstream enterprise stability and manageability								
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500,								
Implementation	Processor in LGA1155 socket								
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets								
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort, supports dual independent display;								
DP dongle	None								
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port								
Chipset	Intel Q75 Express Chipset								
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								
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)								
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector								
Audio	High Definition (HD) Audio, Realtek® ALC662 codec								
Speaker	Internal speaker for business audio								
IEEE 1394	None								
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®								
Manageability	Intel Standard Manageability								
Modem	None								
Security chip	Trusted Platform Module (TPM 1.2-compliant)								
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, 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	● Business black color; metal case ● 13.3" W X 15.2" D X 3.9" H ● 338mm W X 385mm 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 (45w 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 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 models announced October 23, 2012 Preloaded operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models ● ThinkVantage® Product Recovery ● ThinkVantage Communication Utility ● ThinkVantage Power Manager ● Lenovo® AppShop ● Lenovo Message Center Plus ● Lenovo SimpleTap ● Adobe® Reader® ● Windows Live Essentials ● Corel® Burn.Now (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW) - Windows 8 models ● Lenovo Support ● Lenovo Companion ● Lenovo Cloud Storage ● Norton Studio ● AccuWeather ● Evernote® ● Cyberlink Power2Go (DVD±RW) ● Cyberlink PowerProducer (DVD±RW) - All models ● ThinkVantage System Update ● Lenovo Solution Center ● View Management Utility ● Norton Internet Security (30 days of virus definitions) ● Microsoft® Office preloaded;		

purchase a product key to activate • Skype□

Security

- 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 model(s)* EPEAT□ Gold rating

ENERGY STAR® 5.2-compliant

ULE Gold

GREENGUARD® certified RoHS-compliant

Supports ThinkVantage Technologies For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

□Lenovo
(MDTN1-19) October 2012

3392-B6U	4x5	i3-2130	4GBx1	1600MHz	500G	7200	Bay	DVD±RW	None	HD	2000	None
3392-C1U	4x5	i3-2120	4GBx1	1600MHz	250G	7200	Bay	DVD±RW	None	HD	2000	None
3392-C3U	4x5	i3-2120	2GBx1	1600MHz	250G	7200	Bay	DVD±RW	None	HD	2000	None
3392-C7U	4x5	G630	2GBx1	1600MHz	500G	7200	Bay	DVD±RW	None	Intel	HD	None
3392-C8U	4x5	G850	2GBx1	1600MHz	250G	7200	Bay	DVD±RW	None	Intel	HD	None
3392-F3U	4x5	G630	2GBx1	1600MHz	250G	7200	Bay	DVD±RW	None	Intel	HD	None

None None None Pro 64 07/10/12

● 3-year limited warranty

Mainstream enterprise stability and manageability

Positioning Processor

Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Pentium G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)**, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache)**, integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)**, integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

Preloaded operating system

Genuine Windows® 7 Professional 64

Ready to install applications (only some listed)

- Rescue and Recovery
- Password Manager

Preloaded applications (only some listed)

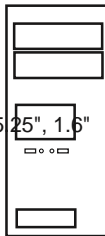
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager

Implementation Processor in LGA1155 socket
Memory 32GB max, **UDIMM, PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets

ThinkCentre M82 Tower (3392) - withdrawn

Product Specifications Reference (PSREF)

Slot x	Type-model	bay	Processor	Memory ^a	SATA disk GB	2nd Disk rpm	SATA Bay	SATA optical	Media reader Graphics	Display-Port dongle	Chassis intrusion switch	ENERGY STAR 5.2 Global	Win7 preload	Ann date (mm/dd/yy)	
Graphics	None	None	None	Pro 64	06/19/12	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz									
DP dongle	None	None													
Disk	Optical	SATA 6.0Gb/s 7200 rpm 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 Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port													
Chipset	None Media reader None														
Front ports	Intel Q75 Express Chipset														
Rear ports	Two 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), ethernet (RJ-45), VGA DB-15, DisplayPort														
Internal connector	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)														
Audio	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector														
Speaker	High Definition (HD) Audio, Realtek® ALC662 codec														
IEEE 1394	Internal speaker for business audio														
Ethernet	None														
Manageability	One gigabit ethernet port, Intel 82579, Wake on LAN®														
Modem	Intel Standard Manageability														
Security chip	None														
Keyboard	Trusted Platform Module (TPM 1.2-compliant)														
Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo														
Power supply Machine	Enhanced Optical USB Mouse, black, Lenovo logo														
Bay	280 watts with variable speed fan, manual switch														
	<ul style="list-style-type: none"> ● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal 														
	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														
											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 US models announced June 19 or July 10, 2012 ● Norton Internet Security (30 days of virus definitions) ● Adobe Reader® ● Skype for Windows ● Windows Live Essentials ● Microsoft Office preloaded; purchase a product key to activate ● Corel® Burn.Now (DVD±RW) ● Corel DVD MovieFactory® (DVD±RW)				



Security

- 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)
- Cable lock
- Power-on 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) GREENGUARD® certified RoHS-compliant

Supports ThinkVantage Technologies
For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

□Lenovo
(MDTN1-10) July 2012

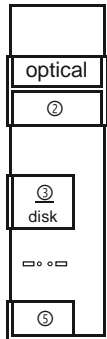
ThinkCentre M82 Tower (3392) - II - withdrawn

Product Specifications Reference (PSREF)

Slot x	Processor	Memory ⁸	SATA disk 2nd Disk	SATA	Media reader	Display-Port	Chassis intrusion	ENERGY	Win7	Ann date
Type-model	bay		GB rpm	optical	Graphics	dongle	switch	STAR 5.2 Global	preload	(mm/dd/yy)
3392-D2U 4x5	i5-3470 4GBx1	1600MHz	500G 7200	Bay	DVD±RW	None	None	None	Pro 32	06/19/12
3392-C2U 4x5	i5-3550 4GBx1	1600MHz	250G 7200	Bay	DVD±RW	None	None	None	Pro 64	06/19/12
3392-C4U 4x5	i7-3770 4GBx1	1600MHz	500G 7200	Bay	DVD±RW	None	None	None	Pro 64	06/19/12
3392-C5U 4x5	i5-3550 4GBx1	1600MHz	500G 7200	Bay	DVD±RW	None	None	None	Pro 64	06/19/12
3392-D7U 4x5	i5-3570 4GBx1	1600MHz	500G 7200	Bay	DVD±RW	None	None	None	Pro 32	06/19/12
3392-D8U 4x5	i7-3770 4GBx1	1600MHz	500G 7200	Bay	DVD±RW	None	None	None	Pro 32	06/19/12
3392-D9U 4x5	i5-3470 2GBx1	1600MHz	250G 7200	Bay	DVD±RW	None	None	None	Pro 64	06/19/12

•3-year limited warranty

Positioning	<i>Mainstream enterprise stability and manageability</i>	Preloaded operating system Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64 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 • Lenovo AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton□ Internet Security (30 days of virus definitions) • Adobe® Reader® • Skype□ for Windows • Windows Live□ Essentials • Microsoft® Office preloaded; purchase a product key to activate • Core!® Burn.Now□ (DVD±RW)
Processor	Intel® Core□ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	
Implementation		
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets	
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort□, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i>	
DP dongle	None	
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	
eSATA port	None	
Media reader	None	
Chipset	Intel Q75 Express Chipset	

Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	<ul style="list-style-type: none"> Corel DVD MovieFactory® (DVD±RW)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), 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)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Manageability	Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	Security <ul style="list-style-type: none"> Security chip (see information on left) One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) Cable lock Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement <i>Chassis intrusion switch on selected model(s)</i>
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Machine	<ul style="list-style-type: none"> Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Toolless cover removal, toolless adapter retention 	
Bay	<ul style="list-style-type: none"> Toolless disk, optical drive removal 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 	
Slot	<ul style="list-style-type: none"> Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w 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	3-years, limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	

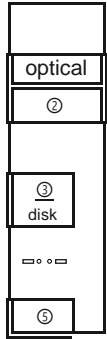
See footnotes for important warranty information
US models announced June 19, 2012

□Lenovo
(MDTN1-11) June 2012

ThinkCentre M82 Tower (3392) - Windows 8 - withdrawn

Product Specifications Reference (PSREF)

Slot x	Type-model	bay	Processor	Memory ^a	SATA disk	2nd Disk	SATA	Media	Display-Port	Chassis intrusion	ENERGY STAR 5.2	Global	Ann date
					GB rpm	Bay	optical	reader	Graphics	switch		Preload	(mm/dd/yy)
	3392-G3U	4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Win8 Pro64 10/23/12
	3392-K8U	4x5	i7-3770	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	Win7 Pro64 10/23/12
	3392-K9U	4x5	i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Win7 Pro64 10/23/12
	3392-L1U	4x5	i5-3470	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2500	None	None	None	Win7 Pro64 10/23/12
	3392-R1U	4x5	i5-3475S	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 4000	None	None	None	Win7 Pro64 03/12/13
Positioning	<i>Mainstream enterprise stability and manageability</i>												
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache) , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache) , Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3475S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache) , Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache) , Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket												
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets												
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, one VGA, one DisplayPort, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i>												
DP dongle	None												
											Preloaded operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models <ul style="list-style-type: none"> ThinkVantage® Product Recovery ThinkVantage Communication Utility ThinkVantage Power Manager Lenovo® AppShop Lenovo Message Center Plus Lenovo SimpleTap Adobe® Reader® <ul style="list-style-type: none"> Windows Live Essentials <ul style="list-style-type: none"> Corel® Burn.Now (DVD±RW) Corel DVD MovieFactory® (DVD±RW) - Windows 8 models		

Disk	SATA 6.0Gb/s 7200 rpm	<ul style="list-style-type: none"> Lenovo Support Lenovo Companion Lenovo Cloud Storage Norton® Studio AccuWeather Evernote® Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) <p>- All models</p> <ul style="list-style-type: none"> ThinkVantage System Update Lenovo Solution Center View Management Utility Norton® Internet Security (30 days of virus definitions) Microsoft® Office preloaded; purchase a product key to activate Skype® <p>Security</p> <ul style="list-style-type: none"> Security chip (see information on left) One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Cable lock Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement <p><i>Chassis intrusion switch on selected model(s)</i></p> <p>GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>
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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	
eSATA port	None	
Media reader	None	
Chipset	Intel Q75 Express Chipset	
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	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	
Speaker	High Definition (HD) Audio, Realtek® ALC662 codec	
1394 Ethernet Manageability	Internal speaker for business audio	
Modem	None	
Security chip	One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability None Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts with variable speed fan, manual switch	
Machine	<ul style="list-style-type: none"> Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Toolless cover removal, toolless adapter retention 	
Bay	<ul style="list-style-type: none"> Toolless disk, optical drive removal 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 	
Slot	<ul style="list-style-type: none"> Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w 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 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 models announced October 23, 2012 or March 12, 2013

Lenovo

(MDTN1-21) March 2013

ThinkCentre M82 Tower (3392) - Windows 8 - II - withdrawn

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ^a	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display-Port	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
3392-K3U	4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-K4U	4x5	G870	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	10/23/12
3392-K5U	4x5	G640	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	10/23/12
3392-K6U	4x5	i3-2130	4GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-K7U	4x5	i3-2120	2GBx1 1600MHz	250G 7200	Bay	DVD±RW	None	HD 2000	None	None	None	None	Win7 Pro64	10/23/12
3392-N1U	4x5	G2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	12/04/12
3392-N2U	4x5	G2020	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	None	None	None	Win7 Pro64	01/22/13

Positioning	<i>Mainstream enterprise stability and manageability</i>		Preloaded operating system Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Ready to install applications (only some listed) <ul style="list-style-type: none"> • Rescue and Recovery • Password Manager Preloaded applications (only some listed) <ul style="list-style-type: none"> • ThinkVantage® Product Recovery • ThinkVantage System Update • ThinkVantage Communication Utility • ThinkVantage Power Manager • View Management Utility • Lenovo® AppShop • Lenovo Solution Center • Lenovo Message Center Plus • Lenovo SimpleTap • Norton Internet Security (30 days of virus definitions) <ul style="list-style-type: none"> • Adobe® Reader® • Skype for Windows • Windows Live Essentials • Microsoft® Office preloaded; purchase a product key to activate • Corel® Burn.Now (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
Processor	Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1066MHz) Intel Pentium G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) Intel Pentium G870 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1333MHz) Intel Pentium G2120 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), integrated Intel HD Graphics, integrated DDR3 memory controller (up to 1600MHz) Intel Core i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) Processor in LGA1155 socket		
Implementation			
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets <i>System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller</i>		
Graphics	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, one VGA, one DisplayPort, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i>		
DP dongle	None		
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector		
eSATA port	None		
Media reader	None		
Chipset	Intel Q75 Express Chipset		
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		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	None		
Modem	None		
Security chip	Intel Standard Manageability None Trusted Platform Module (TPM 1.2-compliant)		
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo		
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo		
Power supply	280 watts with variable speed fan, manual switch		
Machine	<ul style="list-style-type: none"> • Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Toolless cover removal, toolless adapter retention • Toolless disk, optical drive removal 		
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, PCI Express 2.0 x16 (75w 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	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available		
	Security <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement <i>Chassis intrusion switch on selected model(s)</i>		
	GREENGUARD® certified RoHS-compliant		
	Supports ThinkVantage Technologies		
	For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet		

See footnotes for important warranty information □Lenovo US models announced October 23, 2012, December 4, 2012, or January 22, 2013
 (MDTN1-25) February 2013 **ThinkCentre M82 Tower (2697) - ENERGY STAR 5.2 - withdrawn** Product
 Specifications Reference (PSREF)

Slot x Type-model bay P	Processor	Memory ⁸	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader Graphics	Display-Port intrusion ENERGY STAR Global	Chassis switch 5.2	Win7 date preload (mm/dd/yy)	Ann
2697-E5U 4x5	i5 -3470	2	500G 7200	Bay DVD±RW		None	None	None	ES52 None	Pro 32 06/05/12
697-M1U 4x5	i7 -3770	4GBx1 1600MHz	500G 7200	Bay DVD±RW		2500 Media	HD	None	ES52 None	Pro 32 06/05/12 64 11/06/12

●3-year limited warranty

Positioning *Mainstream enterprise stability and manageability*

Preloaded operating system

Processor	Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel Technology	Intel Core i7-3770 Processor Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, Intel Core i5-3470 Processor (4 cores / 8 threads (4 cores / 4 threads, 3.4GHz, 8MB cache), , 3.2GHz, 6MB cache), Some: Professional 32	Windows 7	DDR3 memory controller, Virtualization	Genuine Windows 7 Professional 64Genuine
Implementation	Processor in LGA1155 socket	integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology		Ready to install applications (only some listed)	
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets			● Rescue and Recovery□	
Graphics	Intel HD Graphics 2500 or Intel HD Graphics 4000 in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort□, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz</i>			● Password Manager	
DP dongle	None			Mouse Enhanced Optical USB Mouse, black, Lenovo logo	
Disk	SATA 6.0Gb/s 7200 rpm			Power supply 280 watts, autosensing, 85% PSU	
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive			Machine ● Business black color; metal case	
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset			● 6.9" W X 17.4" D X 16.3" H	
Onboard SATA connector, two SATA 3.0Gb/s connectors, and one eSATA connector	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s eSATA port			● 175mm W X 442mm D X 414mm H	
Media reader	Some: 29-in-1 media reader, internal USB 2.0			● 24.2 lb (11.0 kg) in maximum configuration	
Chipset	Intel Q75 Express Chipset			● Toolless cover removal, toolless adapter retention	
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			● Toolless disk, optical drive removal	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), 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)				
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector				
Audio	High Definition (HD) Audio, Realtek [®] ALC662 codec				
Speaker	Internal speaker for business audio			Bay optical	Bay 1: 5.25", 1.6" high, access, std
IEEE 1394	None				Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN [®]				
Manageability	Intel Standard Manageability				
Modem	None				
Security chip	Trusted Platform Module (TPM 1.2-compliant)				
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo [®] logo				

Slot

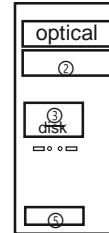
Bay 4: 3.5", 1" high, no access, std disk
 Bay 5: 3.5", 1" high, no access, opt disk
 Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max)
 Slot 2: half-length, full-height, PCIe 2.0 x1
 Slot 3: half-length, full-height, 32-bit PCI 2.3
 Slot 4: half-length, full-height, 32-bit PCI 2.3

Limited Warranty **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 models announced June 5 or November 6, 2012

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype for Windows
- Windows Live Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)



Security

- 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)
 - Cable lock
 - Power-on 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® 5.2-compliant
 - ULE Gold
 - GREENGUARD® certified RoHS-compliant
- Supports ThinkVantage Technologies
 For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

Lenovo
 (MDTN1-4) November 2012

ThinkCentre M82 Tower (2697) - ES 5.2 (Win 8) - withdrawn

Type-model	Slot x bay	Processor	Memory ⁸
2697-H1U			4x5i5- 4 34701
2697-J3U			4x5i3- 4 32201
2697-J4U			4x5i3- 4 32401
			i7- 4 37701
2697-J5U	4x5		
2697-J6U	4x5		

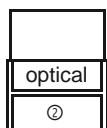
2697-L2U

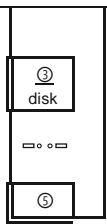
2697-L3U 4x5 i5-3470 4GBx1 1600MHz 500G 7200 Bay DVD±RW None HD 2500 None None ES52 None Win7 Pro64 10/23/12 i5-3570 4GBx1 1600MHz

2697-L4U 4x5

2697-L6U 4x5

1TB 7200 Bay DVD±RW None HD 2500 None None ES52 None Win7 Pro64 10/23/12 i3-2130 4GBx1 1600MHz 500G 7200 Bay DVD±RW None HD 2000 None None ES52 None Win7 Pro64 10/23/12

Positioning	<i>Mainstream enterprise stability and manageability</i>	<p>Preloaded operating system</p> <p>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit</p> <p>Some: Windows 8 Pro 64-bit</p> <p>Preloaded applications (only some listed)</p> <p>- Windows 7 models</p> <ul style="list-style-type: none"> • ThinkVantage® Product Recovery • ThinkVantage Communication Utility • ThinkVantage Power Manager • Lenovo® AppShop • Lenovo Message Center Plus • Lenovo SimpleTap • Adobe® Reader® • Windows Live® Essentials • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW) <p>- Windows 8 models</p> <ul style="list-style-type: none"> • Lenovo Support • Lenovo Companion • Lenovo Cloud Storage • Norton® Studio • AccuWeather® • Evernote® • Cyberlink Power2Go (DVD±RW) • Cyberlink PowerProducer (DVD±RW) <p>- All models</p> <ul style="list-style-type: none"> • ThinkVantage System Update • Lenovo Solution Center • View Management Utility • Norton Internet Security (30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™ <p>Security</p> <ul style="list-style-type: none"> • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: <ul style="list-style-type: none"> -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control
Processor	Intel® Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated DDR3 memory controller (up to 1333MHz) Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz) Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated DDR3 memory controller (up to 1600MHz)	
Implementation	Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i7-3770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	
Graphics	Some: Intel HD Graphics 2000 / 2500 / 4000 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz</i> Some: AMD Radeon™ HD 7450, DirectX 11, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; <i>Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz;</i> works along with Intel HD Graphics to support up to four independent monitors	
DP dongle	None	
Disk	SATA 6.0Gb/s 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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	
eSATA port	None	
Media reader	None	
Chipset	Intel Q75 Express Chipset	
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	
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Manageability	Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts, autosensing, 85% PSU	
Machine		

Bay	<ul style="list-style-type: none"> Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration 		<ul style="list-style-type: none"> Individual USB port disablement Chassis intrusion switch on selected model(s)
Slot	<ul style="list-style-type: none"> Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal <p>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</p> <p>Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w 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</p>		<p>EPEAT Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant</p> <p>Supports ThinkVantage Technologies</p> <p>For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet</p>
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

Lenovo

US models announced October 23, 2012

(MDTN1-22) October 2012

2742-A1U 4x5	i5-3550 4GBx1	1600MHz 500G	7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	06/05/12
2742-B1U 4x5	i5-3470 4GBx1	1600MHz 500G	7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G P	Pro 64	
06/19/12 2742-D1U 4x5	i5-3570 4GBx1	1600MHz 500G	7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	G		
				P	Pro 64		08/14/12						

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

Positioning	Mainstream enterprise stability and manageability	Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	Mouse	Enhanced Optical USB Mouse, black, Lenovo logo
Implementation	Processor in LGA1155 socket	Power supply	280 watts, autosensing, 85%
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3 , four 240-pin DIMM sockets	PSU	Machine
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz		<ul style="list-style-type: none"> Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal
DP dongle	None	Bay optical	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open optical 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
Disk	SATA 6.0Gb/s 7200 rpm	Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w 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
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	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector eSATA port None Media reader None		
Chipset	Intel Q75 Express Chipset		
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		
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)		
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector		
Audio	High Definition (HD) Audio, Realtek® ALC662 codec		
Speaker	Internal speaker for business audio		
IEEE 1394	None		
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®		
Manageability	Intel Standard Manageability		
Modem	None		
Security chip	Trusted Platform Module (TPM 1.2-compliant)		

ThinkCentre M82 Tower (2742) - ES 5.2 (GMP) - withdrawn

Product Specifications Reference (PSREF)

Slot x	Processor	Memory ⁸	SATA disk GB	2nd Disk rpm	Bay	SATA optical	Media reader	Graphics	Display- Chassis	Port intrusion switch	ENERGY STAR 5.2	Global (G) preload (mm/dd/yy)	Win7 Ann date	Dongle
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ThinkCentre M82 Tower (2742) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Slot x	Processor	Memory ⁸	SATA disk GB	2nd Disk rpm	Bay	SATA optical	Media reader	Graphics	Display- Chassis	Port intrusion switch	ENERGY STAR 5.2	Global (G) Preload	Ann date (mm/dd/yy)
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2742-C1U 4x5	i5-3470	4GBx1	1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	ES52 G P	Win8 Pro64	10/23/12
2742-E1U 4x5	i5-3470	4GBx1	1600MHz	500G	7200	Bay	DVD±RW	None	HD 2500	None	None	ES52 G P	Win7 Pro64	10/23/12

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

⑤

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
US models announced June 5, June 19, or August 14, 2012

Preloaded operating system

Genuine Windows[®] 7 Professional 64

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
- Lenovo AppShop
- Lenovo Solution Center
- Lenovo Message Center Plus
- Lenovo SimpleTap
- Norton Internet Security (30 days of virus definitions)
- Adobe[®] Reader[®]
- Skype for Windows
- Windows Live Essentials
- Microsoft[®] Office preloaded; purchase a product key to activate
- Corel[®] Burn.Now (DVD±RW)
- Corel DVD MovieFactory[®] (DVD±RW)

Security

- 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)
 - Cable lock
 - Power-on 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[®] 5.2-compliant

ULE Gold
GREENGUARD[®] certified RoHS-compliant
Supports ThinkVantage Technologies
For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

Lenovo (MDTN1-5) August 2012

Positioning *Mainstream enterprise stability and manageability*

Processor **Intel[®] Core[™] i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology**

Implementation Processor in LGA1155 socket

Memory 32GB max, **UDIMM, PC3-12800 1600MHz DDR3**, four 240-pin DIMM sockets
Graphics **Intel HD Graphics 2500** in processor, ~~uses main memory, DirectX[®] 11,~~
one VGA, one DisplayPort, supports dual independent display;
Maximum resolution:
2560x1600 (DisplayPort, VGA) @60Hz

DP dongle None
Disk SATA 6.0Gb/s 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 Two
SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector
eSATA port None
Media reader None

Chipset **Intel Q75 Express Chipset**

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
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
IEEE 1394	None
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Manageability	Intel Standard Manageability
Modem	None
Security chip	Trusted Platform Module (TPM 1.2-compliant)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, 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"> ● Business black color; metal case ● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H ● 24.2 lb (11.0 kg) in maximum configuration ● Toolless cover removal, toolless adapter retention ● Toolless disk, optical drive removal
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, PCI Express 2.0 x16 (75w 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

optical

②

③
disk

⑤

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

US models announced October 23, 2012

Preloaded operating system

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

Some: Windows 8 Pro 64-bit **Preloaded applications** (only some listed) - **Windows 7 models** ●

ThinkVantage® Product Recovery

- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® AppShop

- Lenovo Message Center Plus
- Lenovo SimpleTap
- Adobe® Reader®
- Windows Live Essentials
- Corel® Burn.Now (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW) - **Windows 8 models**
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Norton Studio
- AccuWeather ● Evernote®
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW) - **All models** ● ThinkVantage System Update
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security (30 days of virus definitions) ● Microsoft Office preloaded; purchase a product key to activate ● Skype

Security

- 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) ●
- Cable lock
- Power-on 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® 5.2-compliant
- ULE Gold
- GREENGUARD® certified RoHS-compliant
- Supports ThinkVantage Technologies
- For compatible accessories, please go to O-M82 sheet; For Lenovo service upgrade options, please go to S-TC sheet

Lenovo

(MDTN1-23) October 2012

Product Specifications Reference (PSREF)

ThinkCentre M82 Accessories

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 [lenovo /support/desktopmemorycompatibility](#)

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max⁴ 41N5618 *ann 09/26/06* Lenovo[®]
Super Multi-Burner SATA Drive 0A65618 *ann 08/23/11*

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*
180GB Solid State Drive 0B47308 *ann 01/29/13*
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 2756/2929 support Low Profile:

NVIDIA NVS 510 2GB Graphics Card by Lenovo ⁶⁷ 0B47077 *ann 01/29/13*

Tower 2697/2742 support 75 watts max:

NVIDIA NVS 510 2GB Graphics Card by Lenovo ⁶⁷ 0B47077 *ann 01/29/13*
⁶⁷ 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 [lenovo /support/graphiccards](#)

Keyboard

Preferred Pro USB Keyboard 73P5220 *ann 06/21/05* Enhanced
Performance USB Keyboard 73P2620 *ann 03/23/04* Ultralim Plus Wireless
Keyboard and Mouse⁵² 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

⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at [lenovo /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 Mouse⁵² 0A36188 *ann 12/20/11*
ThinkPad USB Laser Mouse 57Y4635 *ann 12/15/09*

More information at [lenovo /support/mice](#)

Modem

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

Multimedia

ThinkPad In-Ear Headphones with mic⁶⁰ 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*
⁶⁰ 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 Lock⁵⁶ 73P2582 *ann 12/29/03* Kensington
Twin Head Cable Lock⁵⁶ 45K1620 *ann 09/30/08* Lenovo Security Cable
Lock⁵⁶ 57Y4303 *ann 08/24/10* USB Gemplus GemPC Smart Card Reader
41N3040 *ann 02/21/06*

⁵⁶ 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)⁶⁹ 2448MB6 *ann 09/13/11*
ThinkVision L2251x Wide 22" (VGA, DP) 2578HB6 *ann 10/20/09*
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)⁶⁹ 3024HC1 *ann 05/01/12*
⁶⁹ DisplayPort cable is not included; use optional
DisplayPort to DisplayPort Monitor Cable (0A36537).

More information at [lenovo /support/monitors](#)

Monitor Accessories⁴⁶

Lenovo USB 3.0 to DVI/VGA Monitor Adapter 0B47072 *ann 08/14/12*
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 Lock⁵⁶ 73P2582 *ann 12/29/03*
Kensington Twin Head Cable Lock⁵⁶ 45K1620 *ann 09/30/08* Lenovo
Security Cable Lock⁵⁶ 57Y4303 *ann 08/24/10*
ThinkCentre Extend Arm 57Y4352 *ann 07/06/10*

⁴⁶ Compatible on selected Lenovo and ThinkVision monitors. More

information at [lenovo /support/monitoraccessories](#)

For more information on accessories:

[lenovo /accessories](#) Purchase

Lenovo accessories [lenovo](#)
[/support/accessories](#) Product

specifications on Lenovo Support [lenovo](#)
[/accessoriesguide](#)

Option Compatibility Matrix (OCM) and accessory brochures

lenovoquickpick

An Options Compatibility Configurator for Lenovo systems

