

Contents

Cover	1	Towers	31
Contents	2	ThinkSystem ST250	31
Summary Of Change	3	ThinkSystem ST250 Platform Specifications	31
Blades	4	ThinkSystem ST50	32
ThinkSystem SN550	4	ThinkSystem ST50 Platform Specifications	32
ThinkSystem SN550 Platform Specifications	5	ThinkSystem ST550	33
ThinkSystem SN850	6	ThinkSystem ST550 Platform Specifications	34
ThinkSystem SN850 Platform Specifications	7	Legal Information	35
High-Density	8		
ThinkSystem D2 Enclosure	8		
ThinkSystem D2 Enclosure Platform Specifications	9		
ThinkSystem SD530	10		
ThinkSystem SD530 Platform Specifications	11		
Mission-Critical	12		
ThinkSystem SR850	12		
ThinkSystem SR850 Platform Specifications	13		
ThinkSystem SR860	14		
ThinkSystem SR860 Platform Specifications	15		
ThinkSystem SR950	16		
ThinkSystem SR950 Platform Specifications	17		
Racks	18		
ThinkSystem SR250	18		
ThinkSystem SR250 Platform Specifications	18		
ThinkSystem SR530	19		
ThinkSystem SR530 Platform Specifications	20		
ThinkSystem SR550	21		
ThinkSystem SR550 Platform Specifications	22		
ThinkSystem SR570	23		
ThinkSystem SR570 Platform Specifications	24		
ThinkSystem SR590	25		
ThinkSystem SR590 Platform Specifications	26		
ThinkSystem SR630	27		
ThinkSystem SR630 Platform Specifications	28		
ThinkSystem SR650	29		
ThinkSystem SR650 Platform Specifications	30		

Summary of Changes

This section describes the changes made in this version of ThinkSystem PSREF and in previous version This edition might also include minor corrections and editorial changes which are not identified

April 3, 2019 - Version 540

▶ Add 2nd Xeon Scalable processor, add DDR4-2933 memory, add Intel Optane DC Persistent Memory

September 12, 2018 - Version 530

Add ThinkSystem SR670

May 9, 2018 - Version 524

- ► Withdraw ThinkSystem SR650/SR630/SR550/SR530/SR850/ST550 LFOs to April 2018
- ▶ Update ThinkSystem SR650/SR630/SR590/SR530 LA LFOs to April 2018

Apri 18, 2018 - Version 523

▶ Update ThinkSystem SR650/630/550/530 LFOs to April 2018

November 29, 2017 - Version 516

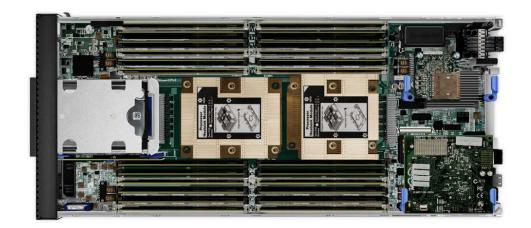
- ► Add new ThinkSystem SR860/SR590/SR570
- ► Add 128GB 3DS RDIMM, 480GB M.2 SSD, VMware ESXi 6.5U1, Red Hat Enterprise Linux 7.4 supports on compatible ThinkSystem servers

November 8, 2017 - Version 515

► Add ThinkSystem SN850/SN550/SD530 and ThinkSystem D2 Enclosure

July 12, 2017 - Version 509

▶ Initial version, includes ThinkSytem rack servers SR650/SR630/SR550/SR530, tower server ST550, and mission-critical servers SR850 and SR950.





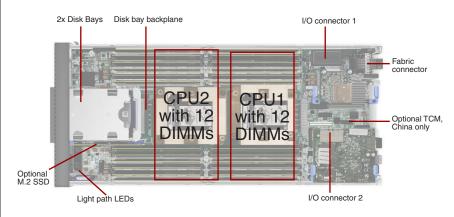




ThinkSystem SN550 Platform Specifications

,										
Components	Standard-width Flex System compute node									
Form factor								(40.41	`	
Dimensions		•	,		`	ı). Dep	oth: 493 mm	(19.4 ın)	
Chassis support		Flex System Enterprise Chassis with CMM2 Maximum configuration: 15.6 lb (7.1 kg)								
Weight						.00000	oro Pronzo	Cilvor	Cold or	
Processor	Platinum.	to two 165W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or atinum. Up to 28 cores at 2.1GHz, up to 3.6GHz with 4 cores. Up to two UPI (Ultra at Interconnect) links at maximum 10.4GT/s each								
Chipset		ntel C624 Platform Controller Hub								
Memory	Up to 24 channels	The Co24 Platform Controller Hub Jp to 24 DIMM sockets. Each processor supports up to 12 DIMM sockets with 6 shannels. DDR4-2666. RDIMMs, LRDIMMs, and 3DS RDIMMs are supported, but memory types cannot be intermixed. 3DS RDIMM is planned to available later								
Memory capacity	Up to 768 24 x 64G RDIMMs per socke	Up to 768GB with 24 x 32GB RDIMMs and two processors. Or up to 1.5TB with 24 x 64GB LRDIMMs and two processors. Or up to 3TB with 24 x 128GB 3DS RDIMMs and two -M suffix processorsM suffix processor supports 1.5TB memory per socket, non -M suffix processor supports 768GB memory per socket ECC, SDDC (for x4-based memory DIMMs), ADDDC (for x4-based memory								
Memory protection	DIMMs, r sparing	equires Go	ld or Plat	tinum prod	essors		mory mirror			у
	Supports	the following	ng RAID/	HBA adar	ters:					
	Adapter	Interface	Drive type	RAID levels	JBOD	Cache	Cache	FastPath		
Storage controllers	Onboard Intel RSTe 530-4i	6Gbps SATA	SATA/SAS	0/1	Yes Yes	None None	None	No Yes		
	930-4i	12Gbps SAS			Yes		Flash backup	Yes		
Disk drive bays	backplan Optional	es, the two one or two	bays car	n supports M.2 SSD f	SATA or boo	, SATA t, dua	configuratio VSAS, or SA I M.2 SSD s	ATA/NVN	le disks	s. 1g
Internal storage	2.5" NVMe SSD									
	2.5" SSD, S M.2 SATA S				/800GB/ 128GB/4		.84TB/7.68TB/1	15.36 I B	-	
Network interfaces	Optional to routes	4x 10GbE	GbE por	n fabric co ts to Flex	nnecto	r. The	fabric conn sis midplan			
Security features	complian	t. Optional	<u>TĊM, Ch</u>	ina only			odule, TCG			
Operating systems supported	SUSE Lir	nux Enterpi	rise Serv	er 11 and	12 x64	I, VMv	t Enterprise vare vSpher	e 6.0 an	d 6.5	
Systems management	UEFI. Lenovo XClarity Controller with Pilot4 XE401 baseboard management controller (BMC), Predictive Failure Analysis, light path diagnostics panel, automatic server restart, remote presence. Support for Lenovo XClarity Administrator and Lenovo XClarity Energy Manager									
GPU support	None									
Base warranty		: 3-year lim								
Power supply	chassis. T	There are n	o server	options re	gardin	g pow	r supplies the er supplies.	at are in	stalled	ın the
Video		d Matrox G						1100		
Front ports	ports (cal	ole standar	d with ch				provides lo tional).	cal KVM	and se	rial
Environmental specification	ports (cable standard with chassis, more cables optional). Supports ASHRAE A3. Temperature - operating A2: 10°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F) Temperature - non operating (no package) 5°C to 45°C (41°F to 113°F) Temperature - non operating (with package) A0°C to 60°C (-40°F to 140°F) Altitude - operating (Unpressurized): 0-10000ft (0-3048m) Humidity - operating, non-condensing A3:8%—85%. A2:8%—85%									
	Humidity - storage (with package), non-condensing 8%~90%									

Expansion slots
Supports two PCIe 3.0 x16 I/O expansion connectors for attaching I/O adapter cards, each connector uses high-density, 216-pin PCIe connection. Please see I/O adapters below:



	•
7M27A03915	Lenovo SATA HDD/SSD Backplane for SN550
7M27A03916	Lenovo NVMe/SATA Backplane for SN550
7M27A03917	Lenovo RAID 930-4i-2GB 2 Drive Adapter Kit for SN550
7M27A03918	Lenovo RAID 530-4i 2 Drive Adapter Kit for SN550
7X77A01301	Lenovo 8GB TruDDR4 2666 MHz (1Rx8 1.2V) RDIMM
7X77A01302	Lenovo 16GB TruDDR4 2666 MHz (1Rx4 1.2V) RDIMM
7X77A01303	Lenovo 16GB TruDDR4 2666 MHz (2Rx8 1.2V) RDIMM
7X77A01304	Lenovo 32GB TruDDR4 2666 MHz (2Rx4 1.2V) RDIMM
7X77A01305	Lenovo 64GB TruDDR4 2666 MHz (4Rx4 1.2V) LRDIMM
00AG540	Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter
00AG590	Flex System CN4054S 4-port 10Gb Virtual Fabric Adapter
01CV780	Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter Advanced
01CV790	Flex System CN4054S 4-port 10Gb Virtual Fabric Adapter Advanced
7ZT7A00502	Lenovo Mellanox ConnectX-3 Mezz 40Gb 2-Port Ethernet Adapter
7ZT7A00520	Lenovo QLogic QML2692 Mezz 16Gb 2-Port Fibre Channel Adapter
7ZT7A00521	Lenovo Emulex LPm16002B-L Mezz 16Gb 2-Port Fibre Channel Adapter
7ZT7A00522	Lenovo Emulex LPm16004B-L Mezz 16Gb 4-Port Fibre Channel Adapter
7ZT7A00508	Lenovo Mellanox ConnectX-3 Mezz FDR 2-Port InfiniBand Adapter
7Y37A01092	Lenovo M.2 Enablement Kit
7Y37A01093	Lenovo M.2 with Mirroring Enablement Kit
7N47A00129	Lenovo M.2 32GB SATA 6Gbps Non-Hot-Swap SSD
7N47A00130	Lenovo M.2 128GB SATA 6Gbps Non-Hot-Swap SSD







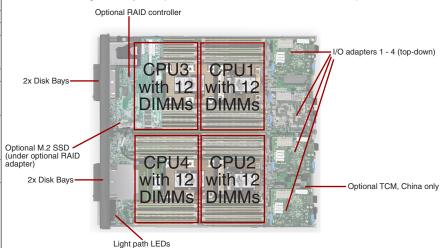




ThinkSystem SN850 Platform Specifications

0	Cussidias	. A.!								
-	Specification Double width Flow Custom compute gods									
Form factor	Double-width Flex System compute node									
Dimensions		Height: 55 mm (2.2 in). Width: 435 mm (17.1 in). Depth: 493 mm (19.4 in)								
Chassis support		Flex System Enterprise Chassis with CMM2								
Weight		Maximum configuration: 27 lb (12.3 kg) Supports up to four 165W Intel Xeon Scalable family processors, Gold or Platinum.								
Processor								Up to three		
		iterconnect) links at maximum 10.4GT/s each								
Chipset		4 Platform								
Memory	channels.	DDR4-26	66. RDIM	lMs,	LRDIMM	s, and	SQE t	to 12 DIMM RDIMMs a planned to a	re sup	ported, but
Memory capacity	Up to 1.5 64GB LR and four -	TB with 48 DIMMs and M suffix pr	x 32GB d four pro ocessors	RDII cess sM	MMs and sors. Or u suffix pro	four purposes	oroces STB w or sup	sors. Or up	to 3TE GB 3E mem	3 with 48 x OS RDIMMs
Memory protection	DIMMs),	memory m	irroring, a	and I	memory :	sparin		(for x4-base	ed mer	nory
	Supports	the followi	ng RAID/	'HBA	adapter	s:				
	Adapter	Interface	Drive type	RAID	levels	JBOD	Cache	Cache protection	FastPa	th
Storage controllers	Onboard	6Gbps SATA	SATA	0/1/1	0/5	Yes	None	i e	No	
	Intel RSTe 530-4i	12Gbps SAS				Yes	None		Yes	\dashv
	930-4i	12Gbps SAS	SATA/SAS	0/1/1	0/5/6	Yes		Flash backup	Yes	
	Four 2.5"	hot-swap	disk bays	. Dei	pending o	on sei	ver co	onfiguration	and in	stalled
Disk drive bays	backplane	es, the fou	r bays ca	n su	pports SA	ATA, S	SATA/S	SAS, or SAT	A/NVN	le disks.
			internal l	M.2 S				.2 SSD sup	ports	mirroring
				800GB/960GB/1.6TB/1.92TB/3.84TB						
	2.5" HDD, SATA6Gbps, 7,2K 2.5" HDD, SAS12Gbps, 7,2K			1TB/2TB 1TB/2TB						
				300GB/600	GB/900)GB				
Internal storage	2.5" HDD, SAS12Gbps, 10K			300GB/600GB/900GB/1.2TB/1.8TB/2.4TB						
				300GB/600GB 240GB/480GB/960GB/1.92TB/3.84TB						
	2.5" SSD, S				400GB/1.6TB/15.36TB					
	M.2 SATA S				32GB/1280					
Network interfaces	Optional 4x 10GbE LOM with fabric connector. The fabric connector is supported to routes the four 10GbE ports to Flex system chassis midplane. Optional adapters									
	are supported, up to 4 adapters, up to 40GbE Power-on and admin password. Trusted Platform Module, TCG 1.2 and 2.0									
Security features		t. Optional				alioni	ii iviou	ule, ICG I.	z anu	2.0
Operating systems						Red	Hat E	nterprise Lii	nux 6	and 7 x64,
supported	SUSE Lir	nux Enterp	rise Serv	er 11	and 12	x64, \	/Mwar	e vSphere 6	6.0 an	d 6.5
Customo								aseboard m		
Systems management								agnostics pa (Clarity Adn		
managomont	Lenovo X	Clarity En	ergy Man	ager	Support	01 L01	10 0 7	Columny Man	minotic	ator and
GPU support	None									
Base warranty		: 3-year lim								
Power supply	Power to	the blade s	server is	deriv	ed from t	he po	wer s	upplies that	are in	stalled in the
		here are n					oower	supplies.		
		Matrox G					that n	ovidee lees	1 12\/N/I	and parial
Front ports	One USB 3.0, one console breakout cable port that provides local KVM and serial ports (cable standard with chassis, more cables optional).									
		ASHRAE			.,			,.		
						A3:	5°C to 4	0°C (41°F to 10)4°F)	
Environmental	Temperature	e - operating e - non operati	na (no pack	aue)		A2:	10°C to	35°C (50°F to 9	95°F)	
specification		e - non operati						C (-40°F to 113°F		
	Altitude - op	erating	· ·	9-7		(Unj	oressuri	zed): 0-10000ft		m)
		perating, non- torage (with pa			lensing		3%~85% -90%	s. A2:8%~80%		
	L. raimaity - Si	ugo (willi po	ugo), 1101	. 55110	ionig	U /0^	JU /0			

Expansion slots
Supports four PCIe 3.0 x16 I/O expansion connectors for attaching I/O adapter cards, each connector uses high-density, 216-pin PCIe connection. Please see I/O adapters below:



	•
7M17A03930	Lenovo SATA HDD/SSD kit for SN850
7M17A03931	Lenovo NVMe/SATA Enablement Kit for SN850
7M17A03932	Lenovo RAID 530-4i 4 Drive Adapter Kit for SN850
7M17A03933	Lenovo RAID 930-4i-2GB 4 Drive Adapter Kit for SN850
7X77A01301	Lenovo 8GB TruDDR4 2666 MHz (1Rx8 1.2V) RDIMM
7X77A01302	Lenovo 16GB TruDDR4 2666 MHz (1Rx4 1.2V) RDIMM
7X77A01303	Lenovo 16GB TruDDR4 2666 MHz (2Rx8 1.2V) RDIMM
7X77A01304	Lenovo 32GB TruDDR4 2666 MHz (2Rx4 1.2V) RDIMM
7X77A01305	Lenovo 64GB TruDDR4 2666 MHz (4Rx4 1.2V) LRDIMM
00AG540	Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter
00AG590	Flex System CN4054S 4-port 10Gb Virtual Fabric Adapter
01CV780	Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter Advanced
01CV790	Flex System CN4054S 4-port 10Gb Virtual Fabric Adapter Advanced
7ZT7A00502	Lenovo Mellanox ConnectX-3 Mezz 40Gb 2-Port Ethernet Adapter
7ZT7A00520	Lenovo QLogic QML2692 Mezz 16Gb 2-Port Fibre Channel Adapter
7ZT7A00521	Lenovo Emulex LPm16002B-L Mezz 16Gb 2-Port Fibre Channel Adapter
7ZT7A00522	Lenovo Emulex LPm16004B-L Mezz 16Gb 4-Port Fibre Channel Adapter
7ZT7A00508	Lenovo Mellanox ConnectX-3 Mezz FDR 2-Port InfiniBand Adapter
7Y37A01092	Lenovo M.2 Enablement Kit
7Y37A01093	Lenovo M.2 with Mirroring Enablement Kit
7N47A00129	Lenovo M.2 32GB SATA 6Gbps Non-Hot-Swap SSD
7N47A00130	Lenovo M.2 128GB SATA 6Gbps Non-Hot-Swap SSD







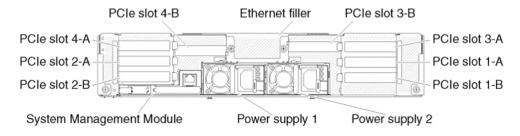
ThinkSystem D2 Enclosure Platform Specifications

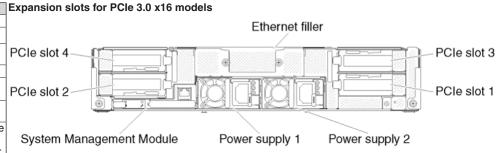
Components	Specification	E		
Form factor	2U rack]		
Dimensions	Height: 87 mm (3.5 in). Width: 488 mm (19.3 in). Depth: 892 mm (35.1 in)			
Server support Per enclosure: up to 4 servers per chassis Per 42U rack: up to 84 servers in 21 enclosures				
Weight	Maximum configuration with four fully configured nodes): 121.2 lb (55 kg)]		
Network interfaces	Optional 8x 10 GbE ports Ethernet I/O Module (EIOM), SFP+ or RJ-45, two ports per server from chipset	Р		
Security features	Power-on and admin password. Trusted Platform Module, TCG 1.2 and 2.0 compliant. Optional TCM, China only			
Systems management	The hot-swappable System Management Module (SMM) is the management device for the enclosure. Provides integrated systems management functions and controls the power and cooling features of the enclosure. Provides remote browser and CLI-based user interfaces for remote access via the dedicated Gigabit Ethernet port. Remote access is to both the management functions of the enclosure as well as the XClarity Controller (XCC) in each server. SMM provides four LEDs: system error, identification, status, and system power. Each power supply has AC, DC and error LEDs			
Base warranty	MT 7X20: 3-year limited onsite service with 9x5/NBD]		
Power supply	Up to two redundant hot-swap 1100W/1600W/2000W 80 PLUS Platinum qualified AC power supplies. 1600W and 2000W are 200V - 240V, 1100W is 100V - 240V			
Cooling	Five hot-swap system fans, accessible via removable panel in the top cover of the enclosure			

Shuttle



Expansion slots for PCle 3.0 x8 models









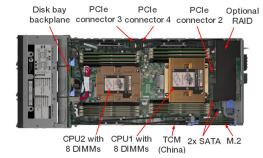


ThinkSystem SD530 Platform Specifications

•					
Specification					
Half-wide, 1U compute node					
Height: 41 mm (1.7 in). Width: 222 mm (8.8 in). Depth: 562 mm (22.2 in)					
ThinkSystem D2 Enclosure. 2U. Up to 4 ThinkSystem SD530 servers per enclosure					
laximum configuration: 16.6 lb (7.5 kg)					
to to two 165W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or atinum. Up to 28 cores at 2.1GHz, up to 3.6GHz with 4 cores. Up to two UPI (Ultra ath Interconnect) links at maximum 10.4GT/s each					
itel C624 Platform Controller Hub					
p to 12 or 16 DIMM sockets depending on the processor selected. Each processor upports up to 6 or 8 DIMM sockets. DDR4-2666. RDIMMs and LRDIMMs are upported, but memory types cannot be intermixed.					
16 DIMMs models: RDIMMs: Up to 512GB with 16x 32GB RDIMMs and two processors LRDIMMs: Up to 1TB with 16x 64GB LRDIMMs and two processors 12 DIMMs models: RDIMMs: Up to 384GB with 12x 32GB RDIMMs and two processors LRDIMMs: Up to 768GB with 12x 64GB LRDIMMs and two processors					
ECC, Chipkill protection (for x4-based memory DIMMs), memory mirroring, and memory sparing Supports the following RAID adapters:					
Cooks					
Adapter Interface Drive type HAID levels JBOD Cache protection PastPath					
Onboard Intel RSTe 6Gbps SATA SATA 0/1/10/5 Yes None None No 12Gbps SAS SATA/SAS 0/1/10/5 Yes None None Yes None None Yes None None Yes None None None None Yes None None Yes None None					
Up to four 2.5" hot-swap disk bays, or up to six 2.5" hot-swap disk bays, or up to six 2.5" hot-swap disk bays with two AnyBay. SAS support requires 530-8i. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring					
2.5" NVMe SSD 800GB/960GB/1.6TB/1.92TB 2.5" HDD, SATA6Gbps, 7,2K 1TB/2TB 2.5" HDD, SAS12Gbps, 7,2K 2TB					
2.5" HDD, SAS12Gbps, 7,2K, SED 1TB/2TB					
2.5" HDD, SAS12Gbps, 15K 300GB/600GB/900GB 2.5" HDD, SAS12Gbps, 10K 300GB/600GB/900GB/1.2TB/1.8TB/2.4TB					
2.5" HDD, SAS12Gbps, 10K, SED 2.4TB					
2.5" SSD, SATA6Gbps 240GB/480GB/960GB/1.92TB/3.84TB					
2.5" SSD, SAS12Gbps 400GB/800GB/1.6TB/3.84TB/7.68TB/15.36TB					
M.2 SATA SSD 32GB/128GB					
Two 10 GbE ports, SFP+ or RJ-45, routed through the Ethernet I/O Module at the rear of the D2 Enclosure. Networking ports are based on Intel Ethernet Connection X722 in chipset					
Power-on and admin password. Trusted Platform Module, TCG 1.2 and 2.0					
compliant. Optional TCM, China only Microsoft Windows Server 2016, 2012 R2, Red Hat Enterprise Linux 6 and 7 x64,					
SUSE Linux Enterprise Server 11 and 12 x64, VMware ESXi 6.0 and 6.5					
Operator panel with system error LED and ID and power controls. Xclarity Controller embedded management, Xclarity Administrator centralized infrastructure delivery, Xclarity Integrator plugins, and Xclarity Energy Manager centralized server power management. Optional Xclarity Controller Advanced to enable remote control functions. System Management Module (SMM) in the D2 Enclosure provides additional sys-					
temsmanagement functions					
None					
MT 7X21: 3-year limited onsite service with 9x5/NBD					
Supplied by D2 Enclosure					
Integrated Matrox G200 in XClarity Controller					
Optional KVM breakout module for one USB 3.0 and one console breakout cable port for local KVM and serial ports. KVM breakout module will ocuppy one disk bay on 6x 2.5" disk bay model					

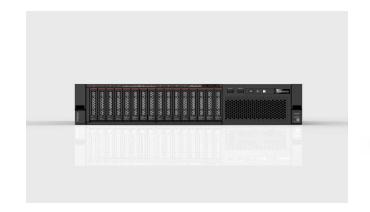
	Components	Specification	
		Supports ASHRAE A4 with limitations.	
е		Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)
		Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)
	Environmental	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)
	specification	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)
a	'	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:20%~80%
	_	Humidity - storage (with package), non-condensing	8%~90%
		Models should meet the following requirements to supp	ort A3 and A4:
or		NVMe drives not installed M.2 drives not installed	

Expansion slots
Supports one PCle 3.0 x16 low-profile slot, or two PCle 3.0 x8 low-profile slots.
Slots are housed in I/O shuttle in rear of the D2 Enclosure



Backplane and memory DIMM sockets supports by processor

Maxium DIMM Sockets	12 [DIMMs	16 DIMMs		
Backplane	2x2	2x3	2x2	2x3	
Xeon Bronze 3104	Yes	Yes	Yes	No	
Xeon Bronze 3106	Yes	Yes	Yes	No	
Xeon Silver 4108	Yes	Yes	Yes	No	
Xeon Silver 4109T	Yes	No	No	No	
Xeon Silver 4110	Yes	Yes	Yes	No	
Xeon Silver 4112	Yes	Yes	Yes	No	
Xeon Silver 4114	Yes	Yes	Yes	No	
Xeon Silver 4116	Yes	Yes	Yes	No	
Xeon Gold 5115	Yes	Yes	Yes	No	
Xeon Gold 5118	Yes	Yes	Yes	No	
Xeon Gold 5120	Yes	Yes	Yes	No	
Xeon Gold 5120T	Yes	No	No	No	
Xeon Gold 5122	Yes	No	No	No	
Xeon Gold 6126	Yes	Yes	No	No	
Xeon Gold 6130	Yes	Yes	Yes	No	
Xeon Gold 6130T	Yes	No	No	No	
Xeon Gold 6134	Yes	No	No	No	
Xeon Gold 6136	Yes	No	No	No	
Xeon Gold 6138	Yes	Yes	No	No	
Xeon Gold 6138T	Yes	No	No	No	
Xeon Gold 6140	Yes	Yes	No	No	
Xeon Gold 6142	Yes	No	No	No	
Xeon Gold 6148	Yes	No	No	No	
Xeon Gold 6150	Yes	No	No	No	
Xeon Gold 6152	Yes	Yes	No	No	
Xeon Platinum 8153	Yes	Yes	Yes	No	
Xeon Platinum 8156	Yes	No	No	No	
Xeon Platinum 8158	Yes	No	No	No	
Xeon Platinum 8160	Yes	No	No	No	
Xeon Platinum 8164	Yes	No	No	No	
Xeon Platinum 8170	Yes	No	No	No	
Xeon Platinum 8176	Yes	No	No	No	









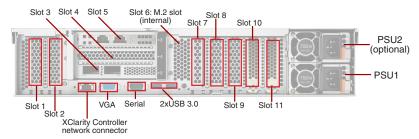




ThinkSystem SR850 Platform Specifications

Components	Specification							
Form factor	2U rack							
Dimensions	Height: 86.5 mm (3.4 in). Width: 482 mm (19.0 in) with rack latches. Depth: 763.7 mm (30.1 in) without security bezel							
Weight	Maximum configuration: 59.52 ib (27 kg)							
Processor	Platinum. 2 processor sockets on s memory expansion tray. Up to 28 c	Supports up to four 205W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Gold or Platinum. 2 processor sockets on system board, 2 processor sockets on optional processor and memory expansion tray. Up to 28 cores at 2.7GHz, up to 3.8GHz with 4 cores. Four processors are connected in ring topology with two 10.4GT/s UPI (Ultra Path Interconnect)						
Chipset	Intel C624 Platform Controller Hub							
	Intel Optane DC Persistent Memor	y DDR4-	2666	128GB	/256GB/5120	GB		
	RDIMM				6GB/32GB/6	4GB		
Memory offering	LRDIMM			64GB/				
	3DS RDIMM			128GB				
	Performance+ RDIMM				32GB/64GB			
	Performance+ 3DS RDIMM			128GB				
	RDIMM				GB/32GB			
	LRDIMM	DDR4-						
	3DS RDIMM	DDR4-						
Memory capacity	 6TB with 48x 128GB 3DS RDIMM and four M or L SKU processors 12TB with 24x 512GB DC Persistent Memory (memory mode) and four L SKU processors 15TB with 24x 512GB DC Persistent Memory (memory mode) + 24x 128GB 3DS RDIMM and four L SKU processors 							
Memory protection	ECC, memory mirroring, and mem							
	Supports the following RAID/HBA	adapters:						
	Feature Interface Drive type RA			Cache	protection	FastPath	qıy	
	530-8i 12Gbps SAS SATA/SAS 0/1 730-8i 12Gbps SAS SATA/SAS 0/1		Yes Yes	None	None	Yes No	2	
	930-8i 12Gbps SAS SATA/SAS 0/1	/10/5/50/6/60	Yes		Flash backup	Yes	2	
Storage controllers	930-16i 12Gbps SAS SATA/SAS 0/1		Yes		Flash backup		1	
	430-8i 12Gbps SAS SATA/SAS -		Yes	None		-	2	
	430-16i 12Gbps SAS SATA/SAS - 930-8e 12Gbps SAS SATA/SAS 0/1	/10/E/E0/E/E0	Yes Yes		None Flash backup	- Yes	1 4	
	430-8e 12Gbps SAS SATA/SAS -	/10/3/30/0/00	Yes	None		-	8	
	430-16e 12Gbps SAS SATA/SAS -		Yes	None		-	8	
	Note: 730-8i is available in China only							
Disk drive bays	Supports 8 front 2.5" SATA/SAS H	S bays with r	naxim	um 4 A	nyBay, or 16	front 2.5	" SATA/S	AS
	Optional one or two internal M.2 S		dual N	1.2 SSI	D supports m	irroring		
	2.5" HDD, SAS12Gbps, 7.2K	1TB/2TB	00.00	D (05 - 5	2/22205		TD (4 -==	_
	2.5" HDD, SAS12Gbps, 10K				3/600GB SED/	900GB/1.2	1B/1.8TB	\dashv
	2.5" HDD, SAS12Gbps, 15K 2.5" SSD, SAS12Gbps	300GB/6000 400GB/8000			RTR			\dashv
Internal storage	2.5" SSD, SATA6Gbps	240GB/480		. 1 / 1 . 0	U.D			\dashv
	2.5" NVMe SSD, AnyBay	800GB/960GB/1.6TB/1.92TB/3.84TB						
	NVMe SSD, PCIe 3.0 x4, HHHL adapter				В			
	M.2 SATA SSD for boot	32GB/128G						
Optical	No internal optical bay. Optional US	SB DVD±RW	optica	al drive	!			
Network interfaces	One dedicated management port. One LOM slot for customized LOM with up to four RJ-45 or SFP+ ports, up to 10GbE. Wake-on-LAN and NC-SI are available on one port of LOM. Optional ML2 or PCIe adapters are supported. ML2 adapter requires riser card with ML2 slot.							
Security features	Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting, Optional TCM in China only. Optional lockable security bezel							
Operating systems supported	Microsoft Windows Server 2016/20 Enterprise Server 12 SP2/11 SP4.					6.9. SUSI	E Linux	
Systems management	XClarity Controller Advanced, optional upgrades to Enterprise is available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Light Path Diagnostics with optional LCD diagnostic pull-out panel							
GPU support								
	None MT 7X18: 1-year limited onsite service with 9x5/NBD							
Base warranty								
Base warranty	MT 7X18: 1-year limited onsite ser MT 7X19: 3-year limited onsite ser Up to two redundant hot-swap 750'	vice with 9x5	/NBD		IC Dieti		A C n	

Components	Specification						
Video	Integrated Matrox G200 in XClarity Controller	Integrated Matrox G200 in XClarity Controller					
Cooling	Six hot-swap fans, N + 1 redundancy	Six hot-swap fans, N + 1 redundancy					
Front ports	One XClarity Controller USB connector, one USB 2.0 or USB 3.0 (model dependent), one optional VGA						
Rear ports	One VGA, two USB 3.0, one serial, one XClarity	One VGA, two USB 3.0, one serial, one XClarity Controller network connector					
	Supports ASHRAE A4 with limitations.						
	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)					
	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)					
Environmental	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)					
specification	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)					
Specification	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:20%~80%					
	Humidity - storage (with package), non-condensing	8%~90%					
	Models should meet the following requirements to support A3 and A4: • NVMe drives not installed • PCIe flash adapter not installed • M.2 SSD not installed						
Environmental certification	Energy Star Server 2.1 certified. More environmental information please see: www.lenovo.com/social responsibility/us/en/environment/						

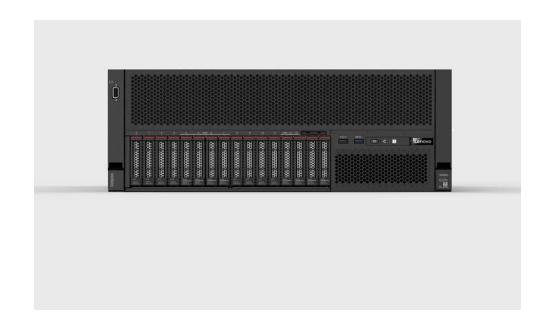


Note: All riser cards, expansion cards, and LOM adapters are optional. Slots are labelled as 1, 2, 3, 4, 5, 7, 8, 9, 10, 11. Slot 6 is internal M.2 slot for optional M.2 enablement kit **Expansion slots**

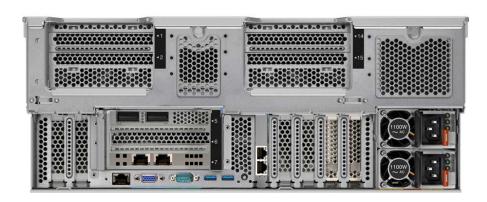
Slot 1 (onboard)	PCIe 3.0 x16, low profile, requires 2nd CPU
Slot 2 (onboard)	PCIe 3.0 x8, low profile, requires 2nd CPU
Slot 3-5 (riser card)	Supports one of the following for riser card: Option 1: PCle 3.0 x8/x8/x8 (slot 3-5). Full height, half length. Option 2: PCle 3.0 x8/x8/x8 ML2 (slot 3-5). Full height, half length Option 4: PCle 3.0 x8/x16 ML2 (slot 3 and 5). Full height, half length Slot 3 - 5 requires 2nd CPU
Slot 7 (onboard)	LOM, low profile
Slot 8 (onboard)	PCIe 3.0 x8, low profile
Slot 9 (onboard)	PCIe 3.0 x8, low profile
Slot 10 (onboard)	PCIe 3.0 x8, low profile
Slot 11 (onboard)	PCIe 3.0 x16, low profile

System unique options for ThinkSystem SR850

7B27A03953	ThinkSystem SR850/SR860 Processor and Memory Expansion Tray
7C57A03999	ThinkSystem SR850/SR860 2.5" Anybay 8-Bay BP Kit
7C57A03998	ThinkSystem SR850/SR860 2.5" SATA/SAS 8-Bay BP Kit
7X97A03954	ThinkSystem SR850 Front VGA Connector Upgrade Kit
7C57A03950	ThinkSystem SR850/SR860 x8/x8/x8 PCIe FH Riser Kit
7C57A03951	ThinkSystem SR850/SR860 x8/x8/x8ML2 PCIe FH Riser Kit
7C57A03952	ThinkSystem SR850/SR860 x8/x16ML2 PCIe FH Riser Kit



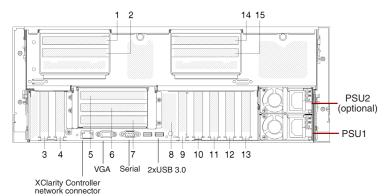




ThinkSystem SR860 Platform Specifications

	Specification	p = 0							
Components	Specification 4U rack								
Form factor	4U rack Height: 175 mm (6.9 in). Width: 482 mm (19.0 in) with rack latches. Depth: 765.88 mm (30.15 in)							0.45:	
Dimensions	without security bezel							0.15 In)	
Weight	Maximum configuration: 87.74 lb (39.8 kg)								
	Supports up to four 205W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Gold or Platinum. 2 processor sockets on system board, 2 processor sockets on optional processor memory expansion tray. Up to 28 cores at 2.7GHz, up to 3.8GHz with 4 cores. Four processor						r or and		
Processor									
	are connected in ring topology with two 10.4GT/s UPI (Ultra Path Interconnect) per processor							essor	
Chipset		Intel C624 Platform Controller Hub							
	Up to 48 DIMM sockets. 24 Di processor and memory expar	IMM socket	s on s	ystem	main b	oard, 24 DIM	MM socke	ts on o	ptional
	channels. Supports following:	ision tray. L	acii pi	00633	oi sup	30115 up 10 12	2 DIIVIIVI S	UCKEIS	WILLIO
	Memory Type		Speed	4	Offeri	na			
	Intel Optane DC Persistent M	emory				B/256GB/512	2GB		
	RDIMM		DDR4	-2933	8GB/1	16GB/32GB/6	64GB		
Memory	LRDIMM		DDR4	-2933	64GB	/128GB			
_	3DS RDIMM		DDR4	-2933	128G	В			li li
	Performance+ RDIMM		DDR4	-2933	16GB	/32GB/64GB			
	Performance+ 3DS RDIMM				128G				
	RDIMM		_		_	16GB/32GB			
	LRDIMM 3DS RDIMM				64GB 128G				
	6TB with 48x 128GB 3E	S RDIMM :	_						
Memory capacity	 12TB with 24x 512GB D 	C Persister	nt Men	nory (r	nemor	y mode) and	four L Sk		
liviemory capacity	• 15TB with 24x 512GB D		nt Men	nory (r	nemor	y mode) + 24	x 128GB	3DS F	RDIMM
Memory protection	and four L SKU process ECC, memory mirroring, and		aring						
Wichiory protection	Supports the following RAID/I								
						Cache	I	Max	
		e RAID leve			Cache	protection	FastPath	qty	
	530-8i 12Gbps SAS SATA/SA 730-8i 12Gbps SAS SATA/SA			Yes		None None	Yes No	2	
	930-8i 12Gbps SAS SATA/SA			Yes Yes		Flash backup	Yes	2	
Storage controllers	930-16i 12Gbps SAS SATA/SA		0/6/60	Yes		Flash backup	Yes	1 2	
	430-8i 12Gbps SAS SATA/SA 430-16i 12Gbps SAS SATA/SA			Yes Yes		None None	-	1	
	930-8e 12Gbps SAS SATA/SA	S 0/1/10/5/5	0/6/60	Yes	4GB	Flash backup	Yes	4	
	430-8e 12Gbps SAS SATA/SA 430-16e 12Gbps SAS SATA/SA			Yes Yes	None	None	-	10	
	Note: 730-8i is available in China d	*			110110	1. 10110			
	Supports 8 front 2.5" SATA/SA	AS HS bays	with r	naxim	um 4 A	nyBay, or 16	front 2.5	" SATA	/SAS
Disk drive bays	HS bays with maximum 8 Any		hoot .	dual M	10001) aunnarta m	irrorina		
	Optional one or two internal N 2.5" HDD, SATA6Gbps, 7.2K		/2TB	uuai iv	1.2 551	Supports in	irroring		$\overline{}$
	2.5" HDD, SAS12Gbps, 7.2K	1TB/	2TB						
	2.5" HDD, SAS12Gbps, 10K 2.5" HDD, SAS12Gbps, 15K		3B/3000 3B/6000			3/600GB SED/9	900GB/1.2	TB/1.8T	В
Internal storage	2.5" SSD, SAS12Gbps, 13K				4TB/7.6	8TB			
	2.5" SSD, SATA6Gbps		3B/4800		FD (4, 00)	TD /0 0 1TD			
	2.5" NVMe SSD, AnyBay NVMe SSD, PCIe 3.0 x4, HHHL a					TB/3.84TB B, up to 10			
	M.2 SATA SSD for boot		B/128G						
Optical	No internal optical bay. Option								
Network interfaces	One dedicated management SFP+ ports, up to 10GbE. Wa								
inetwork interiaces	ML2 or PCIe adapters are sup								Piloriai
Security features	Power-on and admin passwor								2.0
-	via UEFI setting. Optional TCI								
Operating systems supported	Microsoft Windows Server 20 Enterprise Server 12 SP3/11						6.9. SUSE	Linux	
	Enterprise Server 12 SP3/11 SP4. VMware ESXi 6.5 U1/6.0 U3 XClarity Controller Advanced, optional upgrades to Enterprise is available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Light Path Diagnostics with optional LCD						ger.		
Systems							D		
management	diagnostic pull-out panel						-		
GPU support	Up to two NVIDIA Tesla M60				each				
Base warranty	MT 7X69: 3-year limited onsite MT 7X70: 1-year limited onsite	e service w	ith 9x5	/NBD					
	Up to two redundant hot-swap				2000//	80 DI LIG DI	atinum c	alifiad	AC
Power supply	power supplies. 1600W and 2							anned	AC
Video	Integrated Matrox G200 in XC			,			-		
		, 00.10							

Components	Specification						
Cooling	Six hot-swap fans, N + 1 redundancy						
Front ports	One XClarity Controller USB connector, one USB 2.0 or USB 3.0 (model dependent), one VGA						
Rear ports	One VGA, two USB 3.0, one serial, one XClarity	One VGA, two USB 3.0, one serial, one XClarity Controller network connector					
	Supports ASHRAE A4 with limitations.						
	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)					
	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)					
	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)					
Environmental	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)					
specification	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:8%~80%					
	Humidity - storage (with package), non-condensing	8%~90%					
	Models should meet the following requirements to support A3 and A4: • Two PSU installed • NVMe drives not installed • PCIe flash adapter not installed • GPU not installed						
Environmental	Energy Star Server 2.1 certified. More environmental information please see:						
certification	www.lenovo.com/social_responsibility/us/en/env	vironment/					



Expansion slotsUp to 13 PCle slots with one LOM slot and one M.2 slot

- P	
Slot 1-2 (riser card 2)	One PCIe 3.0 x16 for GPU or two PCIe 3.0 x8, full height, full length
Slot 3 (onboard)	PCIe 3.0 x16, for riser card 2 or used as a low profile slot if riser card 2 not used
Slot 4 (onboard)	PCIe 3.0 x8, low profile
Slot 5-7 (riser card 1)	Supports one of the following for riser card:
	Option 1: PCIe 3.0 x8/x8/x8 (slot 5-7). Full height, half length
	Option 2: PCIe 3.0 x8/x8/x8 ML2 (slot 5-7). Full height, half length
	Option 4: PCIe 3.0 x8/x16 ML2 (slot 5 and 7). Full height, half length
Slot 8 (onboard)	M.2 slot for M.2 enablement kit, internal
Slot 9 (onboard)	LOM slot, low profile
Slot 10 -12(onboard)	PCIe 3.0 x8, low profile
Slot 13 (onboard)	PCIe 3.0 x16, for riser card 3 or used as a low profile slot if riser card 3 not used
Slot 14-15 (riser card 3)	One PCIe 3.0 x16 for GPU or two PCIe 3.0 x8, full height, full length, 4 CPU required

System unique options for ThinkSystem SR850

7B27A03953	ThinkSystem SR850/SR860 Processor and Memory Expansion Tray
7C57A03999	ThinkSystem SR850/SR860 2.5" Anybay 8-Bay BP Kit
7C57A03998	ThinkSystem SR850/SR860 2.5" SATA/SAS 8-Bay BP Kit
7C57A03950	ThinkSystem 2U x8/x8/x8 PCIE FH Riser 1
7C57A03951	ThinkSystem 2U x8/x8/x8ML2 PCIE FH Riser 1
7C57A03952	ThinkSystem 2U x8/x16ML2 PCIE FH Riser 1
4C57A08184	ThinkSystem SR860 2x8 PCIe FH Riser 2 (Slot 1 & 2)
4C57A08186	ThinkSystem SR860 1x16 PCIe FH Riser 2 (Slot 1)
4C57A08185	ThinkSystem SR860 2x8 PCIe FH Riser 3 (Slot 14 & 15)
4C57A08187	ThinkSystem SR860 1x16 PCIe FHFL Riser 3 (Slot 14)
00KG655	NVIDIA Tesla M60 GPU, PCIe (Passive)









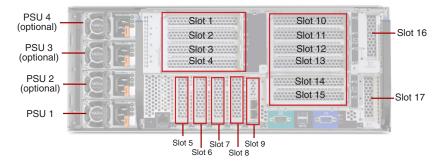




ThinkSystem SR950 Platform Specifications

Components	Specific	ation									
Form factor	4U rack										
Dimensions	Height: 175.8 mm (6.9 in). Width: 483 mm (19.0 in) at EIA Flange. Depth: 853 mm (33.6 in)										
Weight	Maximum configuration: 129.4 lb (58.7 kg) Supports up to four Gen 1 or Gen 2 Intel Xeon Scalable family processors. Gold or Platinum										
	Supports up to four Gen 1 or Gen 2 Intel Xeon Scalable family processors, Gold or Platinum. Or up to eight Intel Xeon Scalable family processors, Platinum only.										
Processor	Processors and memory are located on system boards installed in compute trays: 2 processors										
. 1000000	per syste	per system board, 2 system boards per compute tray, up to 2 compute tray per system. Up to 28 cores at 2.7GHz, up to 3.8GHz with 4 cores. Up to three UPI (Ultra Path Interconnect) links									
		num 10.4GT		JI IZ WILII	4 00100	. Op 1	<i>3</i> 111100	OI I (OIIIa I e	tur mitoro	OTITIO) III IKO
Chipset		Intel C624 Platform Controller Hub									
		DIMM sock following:	ets. Each	processo	or supp	orts up	to 12	DIMM socket	s with 6 c	hann	els.
	Memory	Туре			Sp	eed	Of	fering			
		tane DC Per	sistent Me	emory				8GB/256GB/5			
	RDIMM	4						GB/32GB/640	ЗB		
Memory offering	LRDIMM 3DS RD							GB/128GB GB/128GB/25	SECR		
		ance+ RDIM	1M					GB/32GB/640			
		ance+ 3DS						8GB/256GB			
	RDIMM							GB/32GB			
	LRDIMN						666 64				
	3DS RD		OFFOOD OF	OC DDI				GB/128GB			
		TB with 96x TB with 48x						processors ry mode) and	eight I S	KUn	roces-
Memory capacity	sor	rs				•			•		
		TB with 48x d eight L SK			tent Me	mory (memo	ry mode) + 48	3x 256GE	3DS	RDIMM
Memory protection		emory mirro									
	Up to two dedicated internal RAID slots for most RAID/HBA adapters. Supports the following RAID/HBA adapters:										
	Feature	Interface	Drive type			JBOD	Cache	Cache protection	FastPath	Max qty	
	530-8i	12Gbps SAS				Yes		None	Yes	2	
Ctorogo controlloro	730-8i 930-8i	12Gbps SAS 12Gbps SAS				Yes Yes		None Flash backup	No Yes	2	
Storage controllers	930-16i	12Gbps SAS	SATA/SAS	0/1/10/5	/50/6/60	Yes	4GB	Flash backup	Yes	2	
	430-8i 430-16i	12Gbps SAS 12Gbps SAS				Yes Yes		None None	-	2	
	930-8e	12Gbps SAS	SATA/SAS	0/1/10/5	/50/6/60	Yes	4GB	Flash backup	Yes	4	
	430-8e 12Gbps SAS SATA/SAS - Yes None None - 14										
	Note: 730-8i is available in China only. 930-8e should be placed in slot 7 firstly. 430-8e should be placed in slot 5 firstly.										
Disk drive bays								k bays with m D supports m		12 Ar	пуВау.
	2.5" NVM	e SSD, AnyBa	ay	į	300GB/9	60GB/1	.6TB/1.	92TB/3.84TB			
		, SAS12Gbps			1TB/2TB						
		, SAS12Gbps			300GB/6			OTD // OTD			
Internal storage						GB/600GB/900GB/1.2TB/1.8TB, GB/600GB					
internal storage	-	SATA6Gbps	TON, SED		240GB/4						
		SAS12Gbps			400GB/8		.84TB/7	7.68TB			
		D, PCIe x4 H	HHL adapte		1.6TB/1.9						
	M.2 SATA	SSD			32GB/12	8GB					
Network interfaces	One dedicated management port. One LOM slot for customized LOM with up to four RJ-45 or SFP+ ports, up to 10GbE. Wake-on-LAN and NC-SI are available on Port 0 of LOM. Optional ML2 or PCle adapters are supported. One standard ML2 slot, one optional ML2 slot via optional riser card										
Security features	riser card Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM, China only										
Operating systems supported	Enterpris	se Server 12	SP2/11 S	SP4. VM	vare vS	phere	(ESXi)	se Linux 7.3/6 6.5/6.0 U3			
Systems management	visioning		Clarity Es					ity Energy Ma anner. Light P			
GPU support	None	<u>,</u>									
Base warranty	MT 7X11: 1-year limited onsite service with 9x5/NBD MT 7X12: 3-year limited onsite service with 9x5/NBD MT 7X13: 3-year limited onsite service with 9x5/NBD, SAP HANA optimized										

Components	Specification						
Power supply	Supports one, two or four hot-swap 1100W/1600W 80 PLUS Platinum qualified AC power supplies. Redundant with two or four power supplies (N+N, $N=1$ or 2). 1600W Platinum is 200V - 240V, 1100W is 100V - 240V and de-rated to 1050W for operation from 110V input						
Video	Integrated Matrox G200 in XClarity Controller						
Cooling	Up to 12 hot-swap fans. N +1 redundancy. 6 fan	s per compute tray, 3 fans per storage tray					
Front ports	One XClarity Controller USB connector, one US	SB 2.0, one VGA					
Rear ports	One VGA, two USB 3.0, one serial, one XClarity	Controller network connector					
	Supports ASHRAE A4 with limitations.						
	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)					
	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)					
Environmental	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)					
specification	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)					
·	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:20%~80%					
	Humidity - storage (with package), non-condensing	8%~90%					
	Models should meet the following requirements to support A3 and A4: • 2.5" NVMe SSD and PCIe NVMe flash adapter not installed (NVMe devices are supported up to 35°C) • Processors with TDP more than or equal to 150-watt not installed						
Environmental certification		Energy Star Server 2.1 certified. More environmental information please see: www.lenovo.com/social responsibility/us/en/environment/					



Note: All riser cards, expansion cards, and LOM adapters are optional.

Expansion slots

Supports five standard expansion slots (slot 5 - 9) and up to 12 optional expansion slots (slot 1 - 4, 10 - 15, 16 - 17) via 3 riser cards. The slots are as follows:

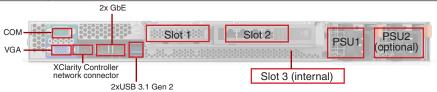
Slot 1-4	Supports one of the following for riser card 1:
(riser card 1)	Option 1: PCle 3.0 x8/x8/x8/x8 (slot 1-4). Full height, half length
(I)	Option 2: PCle 3.0 x16/x16 (slot 3 and 4). Full height, half length
	Option 3: PCle 3.0 x16/x16/x16/x16 (slot 1-4). Full height, half length
Slot 5 (on main I/O tray)	PCIe 3.0 x16, low profile
Slot 6 (on main I/O tray)	PCIe 3.0 x16, low profile
Slot 7 (on main I/O tray)	PCIe 3.0 x8, low profile
Slot 8 (on main I/O tray)	PCIe 3.0 x16 ML2, low profile
Slot 9 (on main I/O tray)	LOM slot, low profile
Slot 10-15	Supports one of the following for riser card 2:
(riser card 2)	Option 1: PCle 3.0 x8/x8/x8/x8 (slot 10-13). Full height, half length
,	Option 2: PCle 3.0 x16/x16 (slot 12 and 13). Full height, half length
	Option 3: PCIe 3.0 x16/x16/x16/x16/x16/x16/x16 ML2 (slot 10-15).
	Full height, half length
Slot 16 -17(riser card 3)	PCIe 3.0 x8, low profile

For riser cards configuration of each model, please see model configuration table.

ThinkSystem SR250 Platform Specifications

Components	Specification								
Form factor	1U rack								
Dimensions	Height: 43 mm (1.7 in), width: 434.4 mm (17.1 in), depth: 497.8 mm (19.6 in). The depth is counted from EIA flange front surface to rear of chassis								
Weight	Maximum configuration: 27.1 lb (12.3 kg)								
Processor	Up to one Intel Xeon E family processor, up to 95W, up to 6 cores at 3.8GHz, up to 12MB cache, up to DDR4-2666 memory speed. Or up to one 8th Intel Core i3 processor, up to 91W, up to 4 cores at 4.0GHz, up to 8MB cache, up to DDR4-2400 memory speed. Or up to one Intel Pentium Gold processor, up to 54W, 2 cores at 3.9GHz, 4MB cache, DDR4-2400 memory speed Or up to one Intel Celeron processor, up to 54W, 2 cores at 3.2GHz, 2MB cache, DDR4-2400 memory speed								
Chipset	Intel C246 PI	atform Cont	roller Hu	b					
Memory	4 DIMM sock	ets with 2 cl	hannels.	2 DIMMs per	r chan	nel. Ul	DIMM. DDF	34-2666.	
Memory capacity	64GB with 4x			'					
Memory protection									
momory protoction	Supports the	following R	ΔΙΠ/ΗΒΔ	adanters:					
	Cupporto tric	Tollowing 11	, (10/110/	adaptoro.					1
	RAID adapter	Interface	Drive type	RAID levels	JBOD	Cache	Cache	FastPath	
	Onboard SATA	6Gbps SATA	SATA	0/1/10/5	Yes	None	None	No	1
Storage controllers	530-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	None	None	Yes]
storage controllers	730-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	1GB	None	No	ļ
	930-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60				Yes	
	430-8i	12Gbps SAS			Yes	None		-	-
	430-8e	12Gbps SAS	SAIA/SAS	0/1/10/5/50/6/60	Yes Yes	None	Flash backup	Yes	-
	930-8e	112GDPS SAS	SAIASAS	0/1/10/5/50/6/60	1 165	400	TIASII DACKUP	162	J
Disk drive bays	Supports 4 fr Or 8 front 2.5 2 Anybay. Optional one	internal M.2	S HS bay: 2 SSD for	s. Or 10x 2.5 boot, consu	" HS b mes o	ays w ne on	ith 8 SATA/s	SAS bay	
	For 3.5" SS bay	3.5" SS bay 3.5" HDD, SATA6Gbps, 7.2K			1TB/2TB/4TB/6TB/8TB				
	<u> </u>	2.5" SSD, SAIA6Gbps			240GB/480GB/960GB				
		3.5" HDD, SATA			1TB/2TB/4TB/6TB/8TB				
	(3.5" disks or	3.5" HDD, SAS	12Gbps, 7.2	2K 1	1TB/2TB/4TB/6TB/8TB				
	2.5" disks with	2.5" HDD, SAS	12Gbps, 15	К 3	300GB/600GB/900GB				
	3.5" tray)	2.5" SSD, SATA	A6Gbps	2	240GB/480GB/960GB				
Disk support	,,	2.5" HDD, SATA	A6Gbps, 7.2	!K 1	TB/2TB				
		2.5" HDD, SAS			TB/2TB				
				9		nogr s	ED/600GB/900	GB/1 2TB/	
	For 2.5" HS bay	2.5" HDD, SAS	12Gbps, 10	K I	.8TB/2.4		LD/000GB/000	GB/ T.E TB/	
		2.5" HDD, SAS	12Ghns 15		300GB/600GB/900GB				
		2.5" SSD, SATA			240GB/480GB/960GB				
	M.2 SSD	M.2 SATA SSD			32GB/128GB/480GB				
0 11 1								740500	0)
Optical	None optical								
Network interfaces	Two onboard								
INCLINOIR IIILEIIACES	one dedicate	d managem	ent port.	Optional PC	le ethe	ernet a	adapters are	e availab	le
Security features	one dedicated management port. Optional PCIe ethernet adapters are available Power-on and admin password. Trusted Platform Module, TCG 1.2 or 2.0 compliant, Optional TCM in China only. Optional chassis intrusion switch, Kensington lock, and pad lock								
Operating systems	Microsoft Wir	ndows Serve	er 2019/2	016/2012 R2	2. Red	Hat F	nterprise Li	nux 7.5	
supported	SUSE Linux								
04660.104									
Systems	XClarity Controller Standard, optional upgrades to Advanced or Enterprise are								
management	available. Energy Manager. XClarity Administrator. LEDs on front panel show the								
	status of power, ID, network, simple-swap disks, and system error								
GPU support	Up to one op								
Base warranty	MT 7Y51: 3-y MT 7Y52: 1-y								
Power supply		d power sup o redundan	pply, 300'	J: W. 80 PLUS p power sup				LUS Plat	inum

Components	Specification
Video	Integrated Matrox G200 in XClarity Controller
Cooling	Four non-hot-swap system fans.
Front ports	One XClarity Controller USB connector, one USB 3.1 Gen 1. One optional VGA
Rear ports	2x USB 3.1 Gen 2. 2x RJ-45. 1x XClarity Controller network connector. 1x COM. 1x VGA
Environmental specification	Supports ASHRAE A2
Environmental certification	Energy Star Server 2.1 certified



Expansion slotsSupports up to three PCle 3.0 slots as following:

•
Supports one of the following
Option 1: PCIe 3.0 x8/x16 (slot 1-2). Low profile for x8, full height half length
for x16, x16 is negotiable link width x8
Option 2: PCle 3.0x16 (slot 2). Full height half length
Slot 3 is covered by riser card so this slot is not available
PCIe 3.0 x8 (negotiable link width x4), dedicated internal RAID slot

Partial options for ThinkSystem SR250

ThinkSystem 8GB TruDDR4 (1Rx8, 1.2V) 2666 MHz UDIMM	4ZC7A08696
ThinkSystem 16GB TruDDR4 (2Rx8, 1.2V) 2666 MHz UDIMM	4ZC7A08699
ThinkSystem 3.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	7XB7A00049
ThinkSystem 3.5" 8TB 7.2K SATA 6Gb Hot Swap 512e HDD	7XB7A00053
900GB 15K 12Gbps SAS 2.5" G4HS 512e HDD	7XB7A00023
300GB 10K 12Gbps SAS 2.5" G4HS HDD	7XB7A00024
600GB 10K 12Gbps SAS 2.5" G4HS HDD	7XB7A00025
900GB 10K 12Gbps SAS 2.5" G4HS HDD	7XB7A00026
1.2TB 10K 12Gbps SAS 2.5" G4HS HDD	7XB7A00027
1.8TB 10K 12Gbps SAS 2.5" G4HS 512e HDD	7XB7A00028
2.4TB 10K SAS 12Gb HS 512e HDD	7XB7A00069
300GB 10K 12Gbps SAS 2.5" G4HS SED	7XB7A00030
1TB 7.2K 12Gbps NL SAS 2.5" G4HS HDD	7XB7A00034
2TB 7.2K 12Gbps NL SAS 2.5" G4HS HDD	7XB7A00035
M.2 CV3 128GB SATA SSD	7N47A00130
ThinkSystem ST50/ST250 Rack Mount Kit	4M17A12785





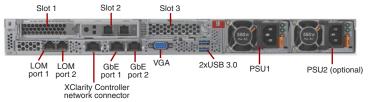




ThinkSystem SR530 Platform Specifications

Components	Specif	ication									C	
Form factor	1U rac	k									В	
Dimensions	Heiaht	: 43 mm	(1.7 in). Wid	th: 482 mr	n (19.0 in) with	rack la	tches	Depth: 778.3	mm (30.6	64 in)	ľ	
Weight			guration: 35		` '				,		P	
g					Xeon Scalable	family	proces	ssors. Bronze	. Silver. G	iold. or	ľ	
Processor	Platinu	ım. Up to	22 cores a	t 1.9GHz, ι	up to 3.8GHz wi	th 4 cc	res. Tw	vo processors		,	$\ \nabla$	
					terconnect) link	s up to	10.4G	aT/s			ľċ	
Chipset			orm Contro								F	
		12 DIMM rts follow		ach proces	sor supports up	to 6 L	IIMM s	ockets with 6	channels		II	
					I=						R	
Memory		ry Type		Speed	Offering	OD /0 4/	0.0					
	RDIMI				8GB/16GB/320 8GB/16GB/320		аВ					
	LRDIN			DR4-2666		<u>а</u> Б						
Memory capacity					ual processor						1	
Memory protection			nirroring, a								∥E	
momery proteotion			llowing RAI								s	
	Сарро	RAID						Cache		Max		
		adapter	Interface	Drive type	RAID levels	JBOD	Cache	protection	FastPath	qty		
	For SS	Onboard	6Gbps SATA	SATA	0/1/10/5	Yes	None	None	No	-		
	bays	SATA 530-8i		SATA/SAS	0/1/10/5/50	Yes	None	None	Yes	1	E	
Storage controllers		730-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	1GB	None	No	1	C	
	For HS bays	930-8i 430-8i	12Gbps SAS	S SATA/SAS S SATA/SAS	0/1/10/5/50/6/60	Yes Yes		Flash backup	Yes	1	_	
		430-8e	12Gbps SAS			Yes	None None		-	2		
		430-16e	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	2		
	930-8e 12Gbps S					Yes		Flash backup	Yes	2		
					AID/HBA adapters							
Disk drive bays		rt 4 front SAS HS l		simple-swa	p bays, or 4 fro	nt 3.5"	SAIA	SAS HS bays	s, or 8 fror	nt 2.5"		
Disk drive bays				al M.2 SSD	for boot, dual N	1.2 SS	D supp	orts mirrorin	a			
	- ·	" SS bay			A6Gbs, 7.2K			2TB/4TB/6TB/8				
	For 3.5" bay			3.5" HDD, SATA6Gbs, 7.2K 1TB/2TB/4TB/6TB/8TB/10								
				3.5" HDD, SAS12Gbs, 7.2K 2.5" HDD, SAS12Gbs, 15K				2TB/4TB/6TB/1	0TB			
								B/600GB			N	
				2.5" SSD, SATA6Gbs 2.5" HDD, SATA6Gbs, 7.2K				240GB/480GB 1TB/2TB				
Internal storage							_				S	
				2.5" HDD, SAS12Gbs, 7.2K 2.5" HDD, SAS12Gbs, 10K				1TB/2TB 300GB/600GB/900GB/1.2TB/1.8TB				
	For 2.5	" bav	_	2.5" HDD, SAS12Gbs, 10K 2.5" HDD, SAS12Gbs, 15K				300GB/600GB				
	1	,	_	5" SSD, SAS				B/800GB/3.84	TB		SI	
			2.	5" SSD, SAT	A6Gbs		240G	B/480GB				
			M	.2 SATA SSE)		32GE	3/128GB			L	
Optical	No inte	ernal opti	cal bay. Opt	tional USB	DVD±RW optic	al driv	Э				S	
					nt port plus two					nized	О	
Network interfaces					p to 10GbE. Op r card with ML2		ML2 or	r PCIe adapte	ers are		7	
					N and NC-SI (s		ht)				7	
Coough, footures					ed Platform Mod			compliant, u	parade to	2.0	7)	
Security features	via UE	FI setting	. Optional	TCM in Chi	na only. Optiona	al locka	able se	curity bezel			7	
Operating systems					R2. Red Hat E				. SUSE L	inux	7) 72	
supported					SP4. VMware E				ovoiloble	Enorm	117-	
Systems					upgrades to Ac		u or Er	nerprise are	avaliablė.	⊏nergy	72	
management					ht Path Diagnos						7)	
GPU support	None				-							
											1	

Components	Specification							
Base warranty	MT 7X07: 1-year limited onsite service with 9x5 MT 7X08: 3-year limited onsite service with 9x5	5/NBD 5/NBD						
Power supply	Up to two redundant hot-swap 550W and 750W supplies. Or up to two redundant hot-swap 750 750W Titanium is 200V - 240V, others are 100V	W Titanium qualified AC power supplies.						
Video	Integrated Matrox G200 in XClarity Controller							
Cooling	Four fans (3+1) for single processor model, six	fans (5+1) for dual processor model						
Front ports	One XClarity Controller USB, one USB 3.0, one	e optional VGA						
Rear ports	One VGA, two USB 3.0, two ethernet (RJ-45), COM port	one XClarity Controller connector. Optiona						
	Supports ASHRAE A4 with limitations.							
	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)						
	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)						
Environmental	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)						
specification	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)						
•	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:20%~80%						
	Humidity - storage (with package), non-condensing 8%~90%							
	Models should meet the following requirements to support A3 and A4:							
	Redundant power supplies required No system fan fails							
		nental information please see:						



Note: GbE port 1 and LOM port 1 support Wake-on-LAN and NC-SI. Riser cards, expansion cards, and LOM adapters are optional.

Expansion slots

Slot 1-2 (riser card 1)	Supports one of the following for riser card 1:
	Option 1: PCIe 3.0 x8/x16 (slot 1-2). Low profile for x8, low profile or full
	height half length for x16
	Option 2: PCIe 3.0 x8/x8 ML2 (slot 1-2). Low profile
Slot 3 (riser card 2)	Option 1: PCIe 3.0 x 8, low profile, for single processor model
	Option 2: PCle 3.0 x 16, low profile, for dual processor model
	When slot 2 is full height, slot 3 cannot be used

Option	Description
7XH7A05892	ThinkSystem SR530/SR570 x8/x8ML2 PCIe LP+LP Riser 1 kit
7XH7A02682	ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+LP Riser 1 Kit
7XH7A05893	ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+FH Riser 1 Kit
7XH7A05891	ThinkSystem SR530/SR570 x8 PCIe LP Riser 2 kit
7XH7A02685	ThinkSystem SR530/SR570/SR630 x16 PCIe LP Riser 2 Kit
7Z17A02579	ThinkSystem SR530/SR570/SR630 Front VGA Connector Upgrade Kit
7Z17A02581	ThinkSystem 1U Security Bezel
7Z17A02577	ThinkSystem COM Port Upgrade Kit
7XH7A05896	ThinkSystem SR530/SR630 2.5" SATA/SAS 8-Bay Backplane Kit





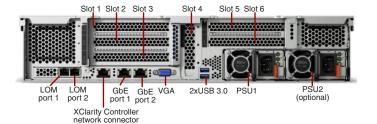




ThinkSystem SR550 Platform Specifications

Per	Components	Specif	ication									
Height: 86.5 mm (3.4 in). Width: 482 mm (19.0 in) with rack latches. Depth: 763.7 mm (30.1 in)	•	-										
Maximum configuration: 57.32 ib (26 kg) Up to two 125W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum, Up to 22 coroses at 1.9GHz, up to 3.8GHz with 4 cores. Two processors are connected with two UPI (Ultra Path Interconnect) links up to 10.4GT/s				2 (2 4 in)	Midth: 492	mm (10 0 in) wi	th racl	(latab	os Donth: 76	2.7 mm /2	(0 1 in)	
Up to two 125W Gen 1 or Gen 2 Intel Xeon Scalable family processors. Bronze, Silver, Gold, or Platinum. Up to 22 cores at 1.96Hz, up to 3.96Hz with 4 cores. Two processors are connected with two UPI (Ultra Path Interconnect) links up to 10.4GT/s Chipset Intel C622 Platform Controller Hub Up to 12 DIMM sockets. Each processor supports up to 6 DIMM sockets with 6 channels. Supports following: Memory offering Memory Type Speed Offering RDIMM DDR4-2666 8GB/16GB/32GB/64GB RDIMM DDR4-2666 8GB/16GB/32GB LRDIMM DDR4-2666 8GB/16GB/32GB/32GB LRDIMM DDR4-2666 8GB/16GB/32GB ECC., memory mirroring, and memory sparring Supports the following RAID/HBA adapters: Storage controllers For SS Onoberd G6S SATA SATA Ol/1/10/5 Yes None None For SS Onoberd G6S SATA SATA Ol/1/10/5 Yes None None Yes 2 30-98 1/20bs SAS SATASAS (01/10/5/50/48 None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None Yes 2 30-98 1/20bs SAS SATASAS (01/10/5/50/48 None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None None None None None None None None SO-98 1/20bs SAS SATASAS (01/10/5/50/48 None No												
Processor Platinum. Up to 22 cores at 1.9GHz, up to 3.8GHz with 4 cores. Two processors are connected with two Up! (Ultra Path Interconnect) links up to 10.4GT/s	vveigni											
Intel C622 Platform Controller Hub	Processor	Platinu	Platinum. Up to 22 cores at 1.9GHz, up to 3.8GHz with 4 cores. Two processors are									
Memory offering Memory Type	Chipset					,						
RDIMM					ach proce	ssor supports u	o to 6	DIMM :	sockets with 6	6 channel	S.	
Supports the following RAID/HBA adapters: For SS Onboard Interface Drive type RAID levels JBOD Cache Cache Drotection FastPath Max Adapters RAID RA	Memory offering	RDIM!	M M		DDR4-293 DDR4-266	3 8GB/16GB/32 6 8GB/16GB/32		1GB				
ECC, memory mirroring, and memory sparing	Memory capacity	768GB	with 12x	64GB RE	DIMM and	dual processor						
Supports the following RAID/HBA adapters:	Memory protection	ECC, r	nemory n	nirroring, a	and memor	y sparing						
Storage controllers	, ,											
For SS Onboard Gob SATA SATA Orl/10/5 Yes None None No - SATA SATA Orl/10/5 Yes None None No - SATA SATA Orl/10/5 Yes None None No -				Interface	Drive type	PAID lovels	IROD	Cacho		FactDath	Max	
Storage controllers			Onboard						ľ		qty -	
Storage controllers		bayo		12Gbs SAS	SATA/SAS	0/1/10/5/50	Yes	None	None	Yes	2	
1				12Gbs SAS	SATA/SAS	0/1/10/5/50		1GB	None			
1	Storage controllers		930-8i	12Gbs SAS	S SATA/SAS	0/1/10/5/50/6/60		2GB	Flash backup			
430-16i 12Gbs SAS SATA/SAS - Yes None None - 1		For HS	420.9	12Gbs SAS	SAIA/SAS	0/1/10/5/50/6/60						
430-8e 12Gbs SAS SATA/SAS - Yes None None - 6 430-16e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS - Yes None None - 6 930-8e 12Gbs SAS SATA/SAS		bays	430-6i 430-16i	12Gbs SA3	S SATA/SAS	-						
430-16e 12Gbs SAS SATA/SAS -						_						
Note: 730-8i is available in China only, All RAID/HBA adapters should be placed in slot 4 firstly. Support 8 front 3.5" SATA simple-swap bays, or 8 front 3.5" SATA/SAS HS bays, or 12 front 3.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays. Internal storage Internal stora				12Gbs SAS	S SATA/SAS	-				-		
Support 8 front 3.5" SATA simple-swap bays, or 8 front 3.5" SATA/SAS HS bays, or 12 front 3.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays. 16 front 2.5" HDD, SATAGDs, 7.2K										6		
Support 8 front 3.5" SATA simple-swap bays, or 8 front 3.5" SATA/SAS HS bays, or 12 front 3.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 16 front 2.5" SATA/SAS HS bays. 16 front 2.5" HDD, SATAGDs, 7.2K		Note: 73	30-8i is ava	ilable in Ch	ina only. All l	RAID/HBA adapter	s shou	ld be pla	aced in slot 4 fir	stly.		
For 3.5" SS bay Some content of the content of t	Disk drive bays	or 16 fi	ront 2.5"	SATA/SAS	S HS bays.							
Internal storage Internal sto									<u>. </u>			
Internal storage Internal Sto												
Internal storage Internal sto		For 3.5	" bay		3.5" HDD. SAS12Gbs. 7.2K							
Internal storage 2.5" SSD, SATA6Gbs 240GB/480GB 2.5" HDD, SAS12Gbs, 7.2K 1TB/2TB 2.5" HDD, SAS12Gbs, 7.2K 1TB/2TB 2.5" HDD, SAS12Gbs, 10K 300GB/600GB/900GB/1.2TB/1.8TB 2.5" SD, SAS12Gbs, 15K 300GB/600GB 2.5" SSD, SAS12Gbs 400GB/800GB/3.84TB 2.5" SSD, SAS12Gbs 240GB/480GB 2.5" SSD, SATA6Gbs 240GB/480GB M.2 SATA SSD 32GB/128GB M.2 SATA SSD		(3.5" dis	sks or 2.5"									
Internal storage 2.5" HDD, SATA6Gbs, 7.2K 1TB/2TB 2.5" HDD, SAS12Gbs, 7.2K 1TB/2TB 2.5" HDD, SAS12Gbs, 7.2K 1TB/2TB 2.5" HDD, SAS12Gbs, 10K 300GB/600GB/900GB/1.2TB/1.8TB 2.5" HDD, SAS12Gbs, 15K 300GB/600GB 400GB/800GB/3.84TB 2.5" SSD, SAS12Gbs 400GB/800GB/3.84TB 2.5" SSD, SATA6Gbs 240GB/480GB M.2 SATA SSD 32GB/128GB		3.5" tra	y)	-								
Internal storage 2.5" HDD, SAS12Gbs, 7.2K 1TB/2TB 2.5" HDD, SAS12Gbs, 10K 300GB/600GB/900GB/1.2TB/1.8TB 2.5" HDD, SAS12Gbs, 15K 300GB/600GB 2.5" SSD, SAS12Gbs 400GB/800GB/3.84TB 2.5" SSD, SAS12Gbs 240GB/480GB 2.5" SSD, SATAGGbs 240GB/480GB M.2 SATA SSD 32GB/128GB					2.5" HDD, SATA6Gbs, 7.2K 2.5" HDD, SAS12Gbs, 7.2K				1TB/2TB 1TB/2TB			
2.5" HDD, SAS12Gbs, 10K 300GB/600GB/900GB/1.2TB/1.8TB 2.5" HDD, SAS12Gbs, 15K 300GB/600GB 2.5" SSD, SAS12Gbs 400GB/800GB/3.84TB 2.5" SSD, SAT2Gbs 240GB/800GB/3.84TB 2.5" SSD, SATAGGbs 240GB/480GB M.2 SATA SSD 32GB/128GB Optical No internal optical bay. Optional USB DVD±RW optical drive Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right) Security features Operating systems Supports Wiccosoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.4/7.3/6.9. SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4. VMware ESXi 6.5U1/6.5/6.0 U3 XClarity Controller Standard, optional Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics	Internal storage			-								
Por 2.5" bay 2.5" HDD, SAS12Gbs, 15K 2.5" SSD, SAS12Gbs 2.40GB/800GB/3.84TB 2.5" SSD, SATA6Gbs 2.40GB/800GB/3.84TB 2.5" SSD, SATA6Gbs 2.40GB/800GB/3.84TB 2.5" SSD, SATA6Gbs 2.40GB/80GB 2.5" SSD, SATA6Gbs 2.40GB/480GB M.2 SATA SSD 32GB/128GB Optical Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right) Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel Operating systems supported Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.4/7.3/6.9. SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4. VMware ESXI 6.5U1/6.5/6.0 U3 XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics												
2.5" SSD, SAS12Gbs 400GB/800GB/3.84TB 2.5" SSD, SATA6Gbs 240GB/480GB M.2 SATA SSD 32GB/128GB		Eor 2 5	" hav	-								
Deptical No internal optical bay. Optional USB DVD±RW optical drive Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right) Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel Operating systems supported Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.4/7.3/6.9. SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4. VMware ESX 6.5U1/6.5/6.0 U3 Systems Manager. XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics		01 2.3	Day	-				_				
Optical No internal optical bay. Optional USB DVD±RW optical drive Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right) Security features Operating systems auterial base of the provided of the										+10		
Optical No internal optical bay. Optional USB DVD±RW optical drive Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right) Security features Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel Operating systems supported Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.4/7.3/6.9. SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4. VMware ESXi 6.5U1/6.5/6.0 U3 XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics				-								
Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right) Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel Operating systems supported Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.4/7.3/6.9. SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4. VMware ESXi 6.5U1/6.5/6.0 U3 Systems Manager. XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics								_	3B/128GB			
Network interfaces Networ	Optical											
Security features Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel Operating systems supported Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.4/7.3/6.9. SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4. VMware ESXi 6.5U1/6.5/6.0 U3 XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics	Network interfaces	LOM w	Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot.									
Operating systems Supported Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.4/7.3/6.9. SUSE Linux Enterprise Server 12 SP3/12 SP2/11 SP4. VMware ESXi 6.5U1/6.5/6.0 U3 Systems Manager. XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics	Security features	Power-	on and a	dmin pass	sword. Trus	ted Platform Mo	dule,	TCG 1.		upgrade t	o 2.0	
Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics	Operating systems supported	Micros Enterp	oft Windo	ws Serve er 12 SP3	r 2016/201 3/12 SP2/1	2 R2. Red Hat E I SP4. VMware	Enterp ESXi 6	rise Lir 6.5U1/6	nux 7.4/7.3/6.9 6.5/6.0 U3			
	Systems management	Manag	er. XClar	ity Admini	strator. Ler	ovo Capacity P	lanner		Enterprise are	available	. Energy	
	GPU support	None										

Components	Specification						
Base warranty	MT 7X03: 1-year limited onsite service with 9x MT 7X04: 3-year limited onsite service with 9x						
Power supply	Up to two redundant hot-swap 550W and 750W 80 PLUS Platinum qualified AC power supplies. Or up to two redundant hot-swap 750W Titanium qualified AC power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V						
Video	Integrated Matrox G200 in XClarity Controller						
Cooling	Three fans (2+1) for single processor model, for	our fans (3+1) for dual processor model					
Front ports	One XClarity Controller USB, one USB 3.0, on	e optional VGA					
Rear ports	One VGA, two USB 3.0, two ethernet (RJ-45) one XClarity Controller connector. Optional COM port						
	Supports ASHRAE A4 with limitations.						
	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)					
	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)					
Environmental	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)					
specification	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)					
	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:20%~80%					
	Humidity - storage (with package), non-condensing 8%~90%						
	Models should meet the following requirements to support A3 and A4:						
	Redundant power supplies required No system fan fails						
Environmental	Energy Star Server 2.1 certified. More environmental information please see:						
certification	www.lenovo.com/social_responsibility/us/en/er	nvironment/					



Note: GbE port 1 and LOM port 1 support Wake-on-LAN and NC-SI. Riser cards, expansion cards, and LOM adapters are optional.

Expansion slots

1	
Slot 1-3 (riser card 1)	Supports one of the following for riser card 1:
"	Option 1: PCIe 3.0 x8/x8/x8 (slot 1-3). Full height, half length.
	Option 2: PCle 3.0 x16/x8 (slot 1 and 3). Full height, half length
	Option 3: PCIe 3.0 x8/x8/x8 ML2 (slot 1-3). Full height, half length
Slot 4 (onboard)	PCIe 3.0 x8, low profile
Slot 5 (riser card 2)	PCIe 3.0 x16, full height, half length, requires 2nd CPU
Slot 6 (riser card 2)	PCIe 3.0 x8, full height, half length

7XH7A02680	Lenovo SR550/SR590/SR650 x8/x8/x8ML2 PCIe FH Riser 1 Kit
7XH7A02679	Lenovo SR550/SR590/SR650 (x16/x8)/(x16/x16) PCIe FH Riser 2 Kit
7XH7A02678	Lenovo SR550/SR590/SR650 x16/x8 PCIe FH Riser 1 Kit
7XH7A02677	Lenovo SR550/SR590/SR650 x8/x8/x8 PCIe FH Riser 1 Kit
7Z17A02578	Lenovo SR550/SR590/SR650 EIA Latch w/ VGA Upgrade Kit
7XH7A06254	Lenovo SR550/SR650 2.5" SATA/SAS 8-Bay Backplane Kit
7Z17A02580	Lenovo 2U Security Bezel
7Z17A02577	Lenovo COM Port Upgrade Kit









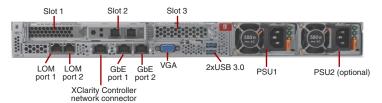




ThinkSystem SR570 Platform Specifications

Components	Spacifi	ioation									
Components Form factor	Specifi 1U rack										
Dimensions		Height: 43 mm (1.7 in). Width: 482 mm (19.0 in) with rack latches. Depth: 778.3 mm (30.64 in)									
Weight		Maximum configuration: 35.27 lb (16 kg)									
Processor	Up to tv	Up to two 150W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 26 cores at 2.0GHz, up to 3.8GHz with 4 cores. Two processors are									
1 10000001					nterconnect) li				io aio		
Chipset	Intel C6	622 Platf	form Contro	oller Hub	·						
				ach proces	ssor supports	up to 8	DIMM:	sockets with	6 channel	S.	
	Suppor	rts follow	ring:								
	Memor				Spee		Offering				
Memory offering			C Persister	nt Memory				/256GB/512C			
	RDIMA							6GB/32GB/64	IGB		
	RDIMM					4-2666 4-2666		6GB/32GB			
			16v 64GB	DDIMM an	id dual proces		0400				
Memory capacity	• 2	TB with	4x 512GB ith 4x 5120	DC Persist	ent Memory a sistent Memor	ind dual					
Memory protection			mirroring, a	nd memor	v snaring						
			llowing RA								
	I	RAID		1				Cache		Max	
		adapter	Interface	Drive type	RAID levels	JBOD	Cache	protection	FastPath	qty	
	For SS bays	Onboard SATA	6Gb SATA	SATA	0/1/10/5	Yes	None	None	No	-	
	Days	530-8i	12Gbs SAS	SATA/SAS	0/1/10/5/50	Yes	None	None	Yes	1	
04		730-8i		SATA/SAS		Yes		None	No	1	
Storage controllers		930-8i 930-16i			0/1/10/5/50/6/60			Flash backup Flash backup	Yes Yes	1	
	For HS	430-8i		SATA/SAS	-	Yes	None		-	1	
	bays		12Gbs SAS			Yes	None		-	1	
		430-8e 12 430-16e 12	12Gbs SAS			Yes Yes	None		-	3	
					0/1/10/5/50/6/60			Flash backup	Yes	2	
	Note: 73	30-8i is ava	ailable in Chi	ina only							
Disk drive bays	SATA/S	SAS HS I	bays, or 10	front 2.5"	ap bays, or 4 f SATA/SAS HS D for boot, dua	bays w	≀ith 4 A	nyBay.		ont 2.5"	
	For 3.5"				TA6Gbs, 7.2K			3/2TB/4TB/6TB/			
	For 3.5" bay (3.5" disks or 2.5" disks with 3.5" tray)			3.5" HDD, SATA6Gbs, 7.2K 3.5" HDD, SAS12Gbs, 7.2K			1TE	1TB/2TB/4TB/6TB/8TB/10TB			
							1TE	1TB/2TB/4TB/6TB/10TB			
								300GB/600GB/900GB			
				2.5" SSD, SATA6Gbs				240GB/480GB			
				2.5" NVMe SSD, AnyBay				960GB/1.92TB/3.84TB			
Internal storage			_	2.5" HDD, SASTAGGbs, 7.2K				1TB/2TB 1TB/2TB			
internal storage				2.5" HDD, SAS12Gbs, 7.2K 2.5" HDD, SAS12Gbs, 10K			_	300GB/600GB/900GB/1.2TB/1.8TB			
					S12Gbs, 10K, S	ED	_	300GB/600GB			
	For 2.5"	bay	2	2.5" HDD, SA	S12Gbs, 15K		300	300GB/600GB/900GB			
				.5" SSD, SA			_	400GB/800GB/3.84TB			
			_	1.5" SSD, SA				GB/480GB			
				2.5" NVMe S			1	960GB/1.6TB/1.92TB/3.84TB			
0-4:1	M.2 boo			1.2 SATA SS		At a a 1 abote		B/128GB			
Optical					B DVD±RW op			One LOM ele	t for anata	mai=ad	
Network interfaces	Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right) Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0										
Security features					ted Platform M					o 2.0	
Operating systems supported	Microso	oft Wind	ows Server	2016/201	<u>iina only. Optic</u> 2 R2. Red Hat Mware ESXi 6	Enterp	rise Lir			х	
	Enterprise Server 12 SP2/11 SP4. VMware ESXi 6.5/6.0 U3 XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics										
Systems management	Manage	er. XClar	rity Adminis	strator. Len	ovo Capacity	Planner		·			

Components	Specification						
Base warranty	MT 7Y02: 1-year limited onsite service with 9x9 MT 7Y03: 3-year limited onsite service with 9x9						
Power supply	Up to two redundant hot-swap 550W and 750V supplies. Or up to two redundant hot-swap 750 750W Titanium is 200V - 240V, others are 100V	W Titanium qualified AC power supplies.					
Video	Integrated Matrox G200 in XClarity Controller						
Cooling		processor model, all fans are 4028 single and dual processor models,					
Front ports	One XClarity Controller USB, one USB 3.0, one optional VGA						
Rear ports	One VGA, two USB 3.0, two ethernet (RJ-45), COM port	one XClarity Controller connector. Optional					
	Supports ASHRAE A4 with limitations.						
	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)					
	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)					
	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)					
	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)					
Environmental	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:8%~80%					
specification	Humidity - storage (with package), non-condensing	8%~90%					
	Models should meet the following requirements to supple Redundant power supplies required No system fan fails No NVMe drive No rear two HS bays Processor TDP is less than or equal to 140 watts, and On 12x 3.5" models, mo M.2 drives						
Environmental	Energy Star Server 2.1 certified. More environr	mental information please see:					
certification	www.lenovo.com/social responsibility/us/en/en						



Note: GbE port 1 and LOM port 1 support Wake-on-LAN and NC-SI. Riser cards, expansion cards, and LOM adapters are optional.

Expansion slots

Slot 1-2 (riser card 1)	Supports one of the following for riser card 1:
	Option 1: PCIe 3.0 x8/x16 (slot 1-2). Low profile for x8, low profile or full
	height half length for x16
	Option 2: PCIe 3.0 x8/x8 ML2 (slot 1-2). Low profile
Slot 3 (riser card 2)	Option 1: PCle 3.0 x 8, low profile, for single processor model
'	Option 2: PCle 3.0 x 16, low profile, for dual processor model
	When slot 2 is full height, slot 3 cannot be used

7XH7A05892	ThinkSystem SR530/SR570 x8/x8ML2 PCIe LP+LP Riser 1 Kit	
7XH7A02682	ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+LP Riser 1 Kit	
7XH7A05893	ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+FH Riser 1 Kit	
7XH7A05891	ThinkSystem SR530/SR570 x8 PCIe LP Riser 2 Kit	
7XH7A02685	ThinkSystem SR530/SR570/SR630 x16 PCIe LP Riser 2 Kit	
7Z17A02579	ThinkSystem SR530/SR570/SR630 Front VGA Connector Upgrade Kit	
7Z17A02581	ThinkSystem 1U Security Bezel	
7Z17A02577	ThinkSystem COM Port Upgrade Kit	
4XH7A08762	ThinkSystem SR570 2.5" SATA/SAS 8-Bay Backplane Kit	









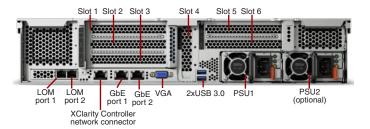




ThinkSystem SR590 Platform Specifications

Components	Specification									
Form factor	2U rack	2U rack								
Dimensions	Height: 86.5 mm (3.4 ir) Width: 482	mm (19 0 in) w	ith racl	k latche	s Denth: 769	3 7 mm /3	(0 1 in)		
Weight	,	<u> </u>	, ,	itii iaci	· latoric	.э. Берин. 700	3.7 mm (C	0.1 111)		
vveigni	Maximum configuration Up to two 150W Gen 1			a famil	v proce	seore Bronz	o Silvor (Gold or		
Processor	Platinum. Up to 26 core	s at 2.0GHz,	up to 3.8GHz v	vith 4	ores. T	wo processor	rs are	aoia, oi		
	connected with two UP	I (Ultra Path I	nterconnect) lin	ks up	to 10.4	GT/s each				
Chipset	Intel C622 Platform Co									
	Up to 16 DIMM sockets Supports following:	. Each proce	ssor supports u	p to 8	DIMM :	sockets with 6	5 channel	S.		
	Memory Type		Speed Of	fering						
Memory offering	Intel Optane DC Persis	tent Memory			56GB/	512GB				
, ,	RDIMM		DDR4-2933 8G							
	RDIMM		DDR4-2666 8G	B/160	B/32G	В				
	LRDIMM		DDR4-2666 64	GB						
	• 1TB with 16x 640					(0 0 -	M OKL	0 1\		
Memory capacity	 2TB with 4x 5120 2.76TB with 4x 5 or M SKU Gen 1) 	12GB DC Pei								
Memory protection	ECC, memory mirroring		ry sparing							
	Supports the following		, , , , , , , , , , , , , , , , , , , 							
	RAID Interfer	Drive to a	PAID lovels	IDOD	Cook	Cache	FootDati-	Max		
	adapter Interial	e Drive type	RAID levels	JBOD	Cache	protection	FastPath	qty		
	For SS Onboard bays SATA 6Gb SA	TA SATA	0/1/10/5	Yes	None	None	No	-		
	530-8i 12Gbs 5	SAS SATA/SAS		Yes	None		Yes	2		
Storage controllers		SAS SATA/SAS	0/1/10/5/50	Yes	1GB	None Flash backup	No Yes	2		
Storage controllers	930-16i 12Ghs S		0/1/10/5/50/6/60	Yes Yes		Flash backup	Yes	1		
	Hor HS 430-8i 12Gbs S	SAS SATA/SAS	-	Yes	None		-	2		
	430-161 12GDS S	SAS SATA/SAS		Yes	None		-	1		
	430-8e 12Gbs 5			Yes	None None		-	5		
	930-8e 12Gbs 5			Yes Yes		Flash backup	Yes	3		
	Note: 730-8i is available in China only									
Disk drive bays	Supports 3.5" Simple-s 12x 3.5", 8x 2.5", or 16. HS bays are supported Optional one or two into	x 2.5" bay mo on 12 x 3.5"	odels, 4 bays car model, takes pl	n be u ace in	ograde riser ca	to AnyBay. O ard 1 location	ptional 2	2. On rear 3.5		
	For 3.5" SS bay		ATA6Gbs, 7.2K			1TB/2TB/4TB/6TB/8TB				
			ATA6Gbs, 7.2K		1TB/2TB/4TB/6TB/8TB/10TB					
	For 3.5" bay		AS12Gbs, 7.2K		1TB	1TB/2TB/4TB/6TB/10TB				
	(3.5" disks or 2.5" disks wi				300	300GB/600GB/900GB				
	3.5" tray)		2.5" SSD, SATA6Gbs				240GB/480GB			
		2.5" NVMe S			960GB/1.92TB/3.84TB					
			ATA6Gbs, 7.2K	_	1TB/2TB					
Internal storage			AS12Gbs, 7.2K		1TB/2TB					
			AS12Gbs, 10K			300GB/600GB/900GB/1.2TB/1.8TB				
	For 2.5" bay		AS12Gbs, 10K, SE	ים		300GB/600GB				
		2.5" HDD, SA 2.5" SSD, SA	AS12Gbs, 15K			300GB/600GB/900GB 400GB/800GB/3.84TB				
		2.5" SSD, SA				240GB/800GB/3.641B				
		2.5" NVMe S				960GB/1.6TB/1.92TB/3.84TB				
	M.2 boot drive	M.2 SATA SS				32GB/128GB				
Optical	No internal optical bay.			l drive	020					
Ортост					ports (One LOM slo	t for custo	mized		
Network interfaces	LOM with two RJ-45 or supported. ML2 adapte	Integrated one dedicated management port plus two GbE ports. One LOM slot for customized LOM with two RJ-45 or SFP+ ports, up to 10GbE. Optional ML2 or PCle adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right)								
Security features	Power-on and admin pa						upgrade t	o 2.0		
Operating systems	Microsoft Windows Ser	ver 2016/201	2 R2. Red Hat I	Enterp	rise Lin		USE Linu	Х		
supported	Enterprise Server 12 S					'mtaumu'	avail-l-!			
Systems management	XClarity Controller Star Manager. XClarity Adm Provisioning Manager.	inistrator. Ler	novo Capacity P	lanner		merprise are	available	. ⊨nerg		
GPU support	None									
Base warranty	MT 7X98: 1-year limited									
	INTERVOLUCION LINGUA DE LINGUA DE LA CONTRACTOR DE LA CON	MT 7X99: 3-year limited onsite service with 9x5/NBD								

Components	Specification							
Power supply	Up to two redundant hot-swap 550W and 750W 80 PLUS Platinum qualified AC power supplies. Or up to two redundant hot-swap 750W Titanium qualified AC power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V							
Video	Integrated Matrox G200 in XClarity Controller							
Cooling	Three fans (2+1) for single processor model, f	our fans (3+1) for dual processor model						
Front ports	One XClarity Controller USB, one USB 3.0, or	ne optional VGA						
Rear ports	One VGA, two USB 3.0, two ethernet (RJ-45), COM port	, one XClarity Controller connector. Optional						
	Supports ASHRAE A4 with limitations.							
	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)						
	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)						
	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)						
	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)						
Environmental	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:8%~80%						
specification	Humidity - storage (with package), non-condensing	8%~90%						
	Models should meet the following requirements to support A3 and A4: • Redundant power supplies required • No system fan fails • No NVMe drive • No rear two HS bays • Processor TDP is less than or equal to 140 watts, and no Intel Xeon 6140 or 6152 processor is installed • On 12x, 35" models. mo M.2 drives							
Environmental	Energy Star Server 2.1 certified. More environ	mental information please see:						
certification	www.lenovo.com/social responsibility/us/en/e							



Note: GbE port 1 and LOM port 1 support Wake-on-LAN and NC-SI. Riser cards, expansion cards, and LOM adapters are optional.

Expansion slots

-xpanioron orono	
Slot 1-3 (riser card 1)	Supports one of the following for riser card 1: Option 1: PCIe 3.0 x8/x8/x8 (slot 1-3). Full height, half length. Option 2: PCIe 3.0 x16/x8 (slot 1 and 3). Full height, half length Option 3: PCIe 3.0 x8/x8/x8 ML2 (slot 1-3). Full height, half length Option 4: Two rear 3.5" disk bays, 12 x 3.5" models only
Slot 4 (onboard)	PCIe 3.0 x8, low profile
Slot 5 (riser card 2) Slot 6 (riser card 2)	PCIe 3.0 x16, full height, half length, requires 2nd CPU PCIe 3.0 x8, full height, half length

7XH7A06253	ThinkSystem SR590/SR650 Rear HDD Kit
4XH7A08778	ThinkSystemSR550/SR590/SR650 x8/x8/x8ML2 PCIe FH Riser 1 Kit
4XH7A08779	ThinkSystem SR550/SR590/SR650 x16/x8 PCIe FH Riser 1 Kit
4XH7A08777	ThinkSystem SR550/SR590/SR650 x8/x8/x8 PCIe FH Riser 1 Kit
4XH7A08780	ThinkSystemSR550/SR590/SR650 x16/x8(or x16) PCIe FH Riser 2 Kit
7Z17A02578	ThinkSystem SR550/SR590/SR650 EIA Latch w/ VGA Upgrade Kit
7Z17A02580	ThinkSystem 2U Security Bezel
7Z17A02577	ThinkSystem COM Port Upgrade Kit
4XH7A08764	ThinkSystem SR590 2.5" Anybay 8-Bay Backplane Kit
4XH7A08763	ThinkSystem SR590 2.5" SATA/SAS 8-Bay Backplane Kit







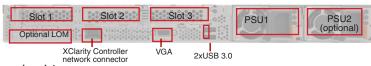




ThinkSystem SR630 Platform Specifications

Components	Specification								
Form factor	1U rack								
Dimensions	Height: 43 mm (1.7 in). Width: 48	2 mm (19.0 in) with r	ack latches. Depth: 778.	3 mm (30.64 in)					
Weight	Maximum configuration: 41.9 lb (. ,		(/					
	Up to two 205W Gen 1 or Gen 2		family processors, Bronz	ze, Silver, Gold, or					
Processor	Platinum. Up to 28 cores at 2.7G			rs are					
Chinaat	connected with two UPI (Ultra Pa		s up to 10.4G1/s						
Chipset	Intel C624 Platform Controller H		to 12 DIMM cockets with	a 6 channols					
	Supports following:	ocessor supports up	to 12 Dilvilvi Sockets with	i o criaririeis.					
	Memory Type	Speed (Offering	1					
	Intel Optane DC Persistent Mem		128GB/256GB/512GB						
	RDIMM		8GB/16GB/32GB/64GB						
Memory offering	3DS RDIMM	DDR4-2933 1							
	Performance+ RDIMM Performance+ 3DS RDIMM		16GB/32GB/64GB						
	RDIMM	DDR4-2933	8GB/16GB/32GB						
	LRDIMM	DDR4-2666							
	3DS RDIMM	DDR4-2666	64GB/128GB						
	3TB with 24x 128GB 3DS								
Memory capacity	 6TB with 12x 512GB DC P 7.5TB with 12x 512GB DC 	ersistent Memory and Persistent Memory +	d duai L SKU processor ⊾12x 128GB 3DS BDIM	M and dual L SKI					
	processor	1 Grototorit Montory	TEX TEGGE OF THE IN	ivi ana adai E Orto					
Memory protection	ECC, memory mirroring, and me	mory sparing							
	One dedicated internal RAID slo	t for most RAID/HBA	adapters. Supports the						
	following RAID/HBA adapters:								
	Feature Interface Drive type I	RAID levels JBOD	Cache Cache protection Fast	Path Max qty					
	530-8i 12Gbps SAS SATA/SAS (0/1/10/5/50 Yes	None None Yes	1					
Storage controllers	730-8i 12Gbps SAS SATA/SAS (930-8i 12Gbps SAS SATA/SAS (1GB None No 2GB Flash backup Yes	1 1					
	930-8i 12Gbps SAS SATA/SAS 0 930-16i 12Gbps SAS SATA/SAS 0		2GB Flash backup Yes 4GB Flash backup Yes	1					
	430-8i 12Gbps SAS SATA/SAS -	Yes	None None -	1					
	430-16i 12Gbps SAS SATA/SAS 930-8e 12Gbps SAS SATA/SAS	Yes Yes 0/1/10/5/50/6/60 Yes	None None - 4GB Flash backup Yes	1 2					
	430-8e 12Gbps SAS SATA/SAS -	Yes	None None -	2					
	430-16e 12Gbps SAS SATA/SAS -		None None -	2					
	Note: 730-8i is available in China only. 930-8e, 430-8e, and 430-16e will be placed in slot 2 firstly. Supports the following disk bay configurations, optional rear bay occupies riser card 1 location:								
	71		, ,						
	Chassis Maximum Disk Bay Co	niguration	2x 3.5" Rear Bay						
	4x 3.5" HS SAIA/SAS 4x 3.5" AnyBay		Ye No						
Disk drive bays	8x 2.5" 8x 2.5" HS SATA/SAS		Ye						
	C. O FILLIO CATA/CAC	4x 2 5" AnyBay							
	10x 2.5" 6x 2.5" HS SATA/SAS + 4x 2.5" AnyBay Yes								
	Optional one or two internal M.2	SSD for boot, dual M	1.2 SSD supports mirrori	na					
	2 5" 1101	CATACCHES 7 OF 1TE	D/OTD/ATD/CTD/OTD/10TD						
	3.5" HDI	D, SAS12Gbps, 7.2K 1TE	B/2TB/4TB/4TB SED FIPS/6	STB/10TB					
	2.5 1101	2, 0A012abps, 1310 000	0GB/600GB 0GB/480GB						
	2.5" HDI	D, SATA6Gbps, 7.2K 1TE	B/2TB						
	2.5" HDI	D, SAS12Gbps, 7.2K 1TE	B/2TB	OCB SED/OOOCB/					
Internal storage	For 2.5" bay	D, SAS12Gbps, 10K 1.2	0GB/300GB SED/600GB/60/ 2TB/1.8TB	0GB 3ED/900GB/					
	2.5" HDL	D, SAS12Gbps, 15K 300	UGB/600GB/900GB						
			0GB/800GB/3.84TB/7.68TB 0GB/480GB						
	2.5" NVN	le SSD, AnyBay 800	0GB/960GB/1.6TB/1.92TB/3	3.84TB					
	PCIe 3.0 x4, HHHL adapter NVMe S M.2 boot drive M.2 SAT.		GB/1.92TB/3.2TB/3.84TB GB/128GB/480GB						
Optical	No internal optical bay. Optional	*							
Οριίσαι	One dedicated management por			to four B L 45 or					
Network interfaces	SFP+ ports, up to 10GbE. Wake- ML2 or PCIe adapters are suppo	on-LAN and NC-SI a	are available on Port 0 of	LOM. Optional					
Security features	Power-on and admin password. via UEFI setting. Optional TCM is	Trusted Platform Mod	lule, TCG 1.2 compliant,	upgrade to 2.0					
Operating systems	Microsoft Windows Server 2016/	2012 R2. Red Hat Er	nterprise Linux 7.4/7.3/6.	.9. SUSE Linux					
supported	Enterprise Server 12 SP3/12 SP	2/11 SPA VMwara F	SX165111/65/60113						

	Components	Specification							
	Systems management	XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics							
r	GPU support		/						
_	Base warranty	rranty MT 7X01: 1-year limited onsite service with 9x5/NBD MT 7X02: 3-year limited onsite service with 9x5/NBD							
	Power supply	Up to two redundant hot-swap 550W/750W/1 supplies. Or up to two redundant hot-swap 75 Titanium is 200V - 240V, others are 100V - 240V.	50W Titanium qualified power supplies. 750W						
	Video	Integrated Matrox G200 in XClarity Controlle	r						
	Cooling	Five fans (4+1) for single processor model, s	even fans (6+1) for dual processor model						
	Front ports	One XClarity Controller USB connector, one	USB 3.0, one optional VGA						
	Rear ports	One VGA, two USB 3.0, one XClarity Control	ller network connector. Optional COM port						
		Supports ASHRAE A4 with limitations.							
		Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)						
4		Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)						
		Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)						
		Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)						
U	Environmental	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:8%~80%						
4	specification	Humidity - storage (with package), non-condensing	8%~90%						
		Models should meet the following requirements to support A3 and A4: • Processors with TDP higher than or equal to 150-Watt and Xeon 4112, 5122, 6126, 6128, 6132, 6134, 6134M, and 8156 processors not installed • Both NVMe 2.5" SSD and NVMe PCIe adapter not installed • GPU not installed • Must have redundant PSU • RAID super capacitor module cannot be installed on the bottom of the air baffle, but only can be installed on the chassis.							
	Environmental certification	Energy Star Server 2.1 certified. More env							



Expansion slots

•	
	Supports one of the following for riser card 1:
,	Option 1: PCIe 3.0 x8/x16 (slot 1-2). Low profile for x8, low profile or full
	height half length for x16
	Option 2: PCle 3.0 x8 ML2/x16 (slot 1-2). Low profile for x8 ML2,
	low profile or full height half length for x16
	Option 3: PCIe 3.0 x16 ML2/x8 (slot 1-2). Low profile for x16 ML2,
	low profile or full height half length for x8
	Option 4: 2x 2.5" drive bay, for 10 x 2.5" model only
Slot 3 (riser card 2)	PCIe 3.0 x 16, low profile, requires 2nd CPU. When slot 2 is full height, slot 3 cannot be
•	used

7XH7A05896	Lenovo SR530/SR570/SR630 2.5" SATA/SAS 8-Bay Backplane Kit
7XH7A05893	Lenovo SR530/SR570/SR630 x8/x16 PCIe LP+FH Riser 1 Kit
7XH7A05895	Lenovo SR630 x16ML2/x8 PCIe LP+FH Riser 1 Kit
7XH7A05894	Lenovo SR630 x8ML2/x16 PCIe LP+FH Riser 1 Kit
7XH7A02682	Lenovo SR530/SR570/SR630 x8/x16 PCIe LP+LP Riser 1 Kit
7XH7A02683	Lenovo SR630 x8ML2/x16 PCIe LP+LP Riser 1 Kit
7XH7A02684	Lenovo SR630 x16ML2/x8 PCIe LP+LP Riser 1 Kit
7XH7A02685	Lenovo SR530/SR570/SR630 x16 PCIe LP Riser 2 Kit
7XH7A06252	Lenovo SR630 Rear HDD Kit
7Z17A02577	Lenovo COM Port Upgrade Kit
7Z17A02579	Lenovo SR530/SR570/SR630 Front VGA Connector Upgrade Kit
7Z17A02581	Lenovo 1U Security Bezel



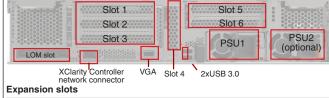




ThinkSystem SR650 Platform Specifications

ThinkSystem	SK65	U Platto	rm Sp	ecificat	ions	•						
Components	Specific	ation										
Form factor	2U rack											
Dimensions	Heiaht: 8	36.5 mm (3.4	in). Width:	482 mm (19	.0 in) v	with	rack la	atches. Dent	h: 763.7 n	nm (3	0.1 in)	
Weight		n configuration			, -					,-		
	Up to two	o 205W Gen	1 or Gen 2	Intel Xeon	Scalab	le fa	amily p	processors, E	Bronze, Si	lver, (Gold, or	
Processor	Platinum	 Up to 28 co 	res at 2.70	3Hz, up to 3.	.8GHz	with	i 4 cor	es. Two proc	essors ar	е		
Chipset		ed with two U 24 Platform C			nect) II	nks	up to	10.4G1/S				
Chipset		DIMM socke			norts	un te	n 12 Γ	IMM sockets	s with 6 cl	nanne	als.	
		s following:	to. Lacii p	10003301 301	porto	up i	0 12 2	JIIVIIVI GOORGE	5 WILLI O CI	iaiiic	710.	
	Memory	Type		Sne	eed	C	Offerin	n				
						DDR4-2666 128GB/256GB/512GB						
	RDIMM							6GB/32GB/6				
Memory offering	3DS RD				R4-29							
		ance+ RDIMN ance+ 3DS R			R4-29			32GB/64GB				
	RDIMM	ALICE+ SDS IN	DIIVIIVI					6GB/32GB				
	LRDIMM	1			R4-26			oab/ozab				
	3DS RD	IMM				_		128GB				
		B with 24x 12										
Memory capacity	• 6T	B with 12x 51 TB with 12x	12GB DC I 512GB DC	ersistent Me	emory Memor	(me	mory	mode) and d	iuai L SKl 2x 128CP	J prod	Cessor	
		d dual L SKU			VICITIOI	у (11	1011101	y 111000 T 11	LA 1200L	. 000	ואוואוויםו	
Memory protection		emory mirrorii										
	One ded	licated interna	al RAID slo	ot for most R	AID/HI	BA a	adapte	ers.				
	Feature	Interface	Drive type	RAID levels	JBO	מכ	Cache	Cache	FastPath	Max		
	530-8i	12Gbps SAS				-	None	protection None	Yes	qty 2		
	730-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50 0/1/10/5/50/6/	Ye	es	1GB	None	No	3		
	930-8i	12Gbps SAS 12Gbps SAS	SATA/SAS	0/1/10/5/50/6/	60 Ye	es		Flash backup		3		
Storage controllers	930-16i 930-24i	12Gbps SAS						Flash backup		1		
- · · · · · · · · · · · · · · · · · · ·	430-8i	12Gbps SAS	SATA/SAS	-	Ye	es	None	None	-	3		
	430-16i 930-8e		SATA/SAS	- 0/1/10/5/50/6/			None 4GB	None Flash backup	- Yes	5		
	430-8e	12Gbps SAS	SATA/SAS	-			None		-	5		
		12Gbps SAS					None		-	5		
	Note: 730-	-8i is available i slot 1 firstly.	n China onl	v. 930-8e, 430-	8e, and	430	-16e w	ill be placed in	slot 4 firstly	v. 930	24i will be	
		s the following	disk bay	configuration	ns, opti	iona	l rear	bay occupies	s riser car	d 1 lo	cation:	
	Chaccic	Maximum Di	ick Bay Co	niguration				2x 3.5" Rea	r Raye Su	innort	+	
		12x 3.5" HS						Yes				
	12x 3.5"	8x 3.5" HS S			yBay			Yes				
	8x 3.5"	8x 3.5" HS S			, .,			Yes				
	-	24x 2.5" HS		3				Yes				
		20x 2.5" HS			nyBay				Yes			
Disk drive bays		16x 2.5" HS							Yes			
Disk drive bays	24x 2.5"	12x 2.5" HS				ıy			No			
		8x 2.5" HS S	SATA/SAS	+ 16x 2.5" U	5" U.2				No			
		20x U.2							No			
		24x U.2							No			
		16x 2.5" HS							Yes			
	16x 2.5"	12x 2.5" HS							Yes			
		8x 2.5" HS S	SATA/SAS	+ 8x 2.5" An	уВау				Yes			
	Optional	one or two in										
	For 3.5" b	av						TB/6TB/8TB/10 TB/4TB SED F)TR		
		s or 2.5" disks v						TB/4TB SED FIPS/6TB/10TB				
	3.5" tray)			D, SATA6Gbps			GB/480					
	-			Me SSD, AnyE D, SATA6Gbps			GB/1.93 /2TB	2TB/3.84TB				
				D, SAS12Gbp								
Internal storage				D, SAS12Gbp		3000	GB/300	GB SED/6000	BB/600GB \$	SED/9	00GB/	
	For 2.5" b	ay		D, SAS12Gbp			B/1.8T GB/600	B)GB/900GB				
			2.5" SS	D, SAS12Gbps	3	4000	GB/800	GB/3.84TB/7.6	68TB			
				D, SATA6Gbps			GB/480		OTD/0 04T			
	PCIe 3.0	x4, HHHL adap		Me SSD, AnyE SSD	ody)GB/1.6TB/1.92 TB/3.2TB/3.84		•		
	M.2 boot		M.2 SA					3B/480GB				

	Components	Specification						
	Optical	No internal optical bay. Optional USB DVD±RW op	tical drive					
r	Network interfaces	One dedicated management port. One LOM slot to 45 or SFP+ ports, up to 10GbE. Wake-on-LAN and Optional ML2 or PCle adapters are supported. ML slot.	NC-SI are available on Port 0 of LOM.					
1	Security features	Power-on and admin password. Trusted Platform Nvia UEFI setting. Optional TCM in China only. Option	onal lockable security bezel					
	Operating systems supported	crosoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.4/7.3/6.9. SUSE L tterprise Server 12 SP3/12 SP2/11 SP4. VMware ESXi 6.5U1/6.5/6.0 U3						
	Systems management	XClarity Controller Standard, optional upgrades to Energy Manager. XClarity Administrator. Lenovo Control Provisioning Manager. Essentials. Light Path Diagr	apacity Planner.					
	GPU support	Requires riser card with PCIe x16 slot. 2nd or 3rd (FHFL and double width GPU adapters, or up to 3 F						
	Base warranty	MT 7X05: 1-year limited onsite service with 9x5/NE MT 7X06: 3-year limited onsite service with 9x5/NE						
	Power supply	//1600W 80 PLUS Platinum qualified ap 750W Titanium qualified AC power 200V - 240V, others are 100V - 240V						
	Video	Integrated Matrox G200 in XClarity Controller						
	Cooling	Five fans (4+1) for single processor model, six fans	s (5+1) for dual processor model					
	Front ports	One XClarity Controller USB connector, one USB 3.0, one optional VGA						
M	Rear ports	One VGA, two USB 3.0, one XClarity Controller ne	twork connector. Optional COM port					
-		Supports ASHRAE A4 with limitations.						
		Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)					
		Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)					
		Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)					
		Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)					
	F	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:8%~80%					
	Environmental	Humidity - storage (with package), non-condensing	8%~90%					
	specification	Models should meet the following requirements to support A3 and A4: NVMe drives not installed PCIe flash adapter not installed Graphic processing unit (GPU) not installed Must have redundant PSU Certain processors not installed:						
be :		- Processors with TDP more than or equal to 150-watt not installed - On 16 x 2.5", 24 x 2.5", and 12 x 3.5" models, the following processors not installed: Intel Xeon 4112, 5122, 6126, 6128*, 6134*, 6134M*, and 8156 processors (Processors marked with * will be available later)						
	Environmental certification	Energy Star Server 2.1 certified. More environment www.lenovo.com/social_responsibility/us/en/enviro						
		Slot 1 Slot 5						

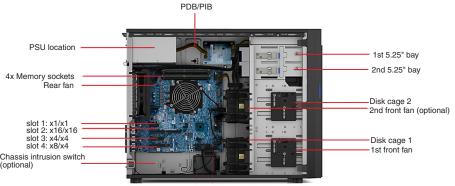


Slot 1-3 (riser card 1)	Supports one of the following for riser card 1:
	Option 1: PCle 3.0 x8/x8/x8 (slot 1-3). Full height, half length.
	Option 2: PCle 3.0 x16/x8 (slot 1 and 3). Full height, full length for x16.
	Full height, half length for x8
	Option 3: PCIe 3.0 x8/x8/x8 ML2 (slot 1-3). Full height, half length
	Option 4: PCle 3.0 x8/x16 ML2 (slot 1 and 3). Full height, half length
]	Option 5: Two rear 3.5" disk bays, 12 x 3.5" models only
Slot 4 (onboard)	PCIe 3.0 x8, low profile
Slot 5 (riser card 2)	PCle 3.0 x16, full height, full length, requires 2nd CPU
Slot 6 (riser card 2)	PCIe 3.0 x16, full height, half length, requires 2nd CPU

ThinkSystem ST250 Platform Specifications

Components	Specification	n	-								
Form factor	Tower or 4U		tional rac	k mount kit							
Dimensions					(qi 0	donth	EGE 7 mm	(22 27 in	,		
		leight: 430 mm (16.93 in), width: 175 mm (6.89 in), depth: 565.7 mm (22.27 in)									
Weight		laximum configuration: 51.94 lb (23.56 kg) p to one Intel Xeon E family processor, up to 95W, up to 6 cores at 3.8GHz, up to									
	12MB cache,					up to	o cores at 3	.8GHZ, L	ib to		
_						un to	4 cores at 4	OGHz. ı	ot au		
Processor		r up to one 8th Intel Core i3 processor, up to 91W, up to 4 cores at 4.0GHz, up to MB cache, up to DDR4-2400 memory speed.									
	Or up to one	Intel Pentiu	m Gold p	rocessor, up	to 54\	N, 2 c	ores at 3.9G	Hz, 4ME	3		
	cache, DDR4	-2400 mem	ory spee	d		•					
Chipset	Intel C246 PI	atform Cont	roller Hu	b							
Memory	4 DIMM sock				r chan	nel. U	DIMM. DDR	4-2666.			
Memory capacity	64GB with 4x										
Memory protection	ECC										
,,,	Supports the	following R	AID/HBA	adapters:							
	DAID I I	1	D : .	DAID!	IDOD	Cache	Cache	F .D.			
	RAID adapter	Interface		RAID levels				FastPath			
	Onboard SATA	6Gbps SATA		0/1/10/5	Yes	None		No			
	530-8i 730-8i	12Gbps SAS 12Gbps SAS			Yes Yes	None 1GB		Yes No			
Storage controllers	930-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60			Flash backup	Yes			
otorago controlloro	930-16i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes			
	430-8i	12Gbps SAS	SATA/SAS	-	Yes	None		-			
	430-16i	12Gbps SAS			Yes	None		-			
	430-8e	12Gbps SAS			Yes	None		-			
	430-16e 930-8e	12Gbps SAS			Yes Yes	None 4GB	Flash backup	Yes			
								(
Disk drive bays	Supports 4 o HS bays. Or 8 SATA/SAS HS Optional one	3 or 16 front S bays.	t 2.5" SAT	ΓA/SAS HS b	ays. C)r 4x 3	.5" plus 8x 2	2.5" hybr	rid		
		3.5" HDD, SAT			TB/2TB			роп			
	For 3.5" SS bay	2.5" SSD, SATA			240GB/480GB/960GB						
	For 3.5" HS bay	3.5" HDD, SAT		K 1	1TB/2TB/4TB/6TB/8TB						
	(3.5" disks or	3.5" HDD, SAS	12Gbps, 7.2	2K 1	1TB/2TB/4TB/6TB/8TB						
	2.5" disks with	2.5" HDD, SAS12Gbps, 15K			300GB/600GB/900GB						
	3.5" tray)						240GB/480GB/960GB				
Disk support		2.5" HDD, SAT	A6Gbps, 7.2	K 1	TB/2TB						
		2.5" HDD, SAS	12Gbps, 7.2		TB/2TB						
	For 2.5" HS bay	2 5" HDD SAS	12Ghne 10	к 3	800GB/3	00GB S	ED/600GB/9000	GB/1.2TB/1	.8T		
	1 01 2.5 110 bay		•	E	3/2.4TB						
		2.5" HDD, SAS		800GB/6							
		2.5" SSD, SATA6Gbps					240GB/480GB/960GB 32GB/128GB/480GB				
	M.2 SSD	M.2 SATA SSD									
Optical	Two 5.25" bay			ical, LTO-7 S	AS or	RDX	USB 3.0 tap	e drive.	Up to		
	Two onboard			ted aigabit e	thorne	t Bros	dcom BCM	5720 nlu	ie .		
Network interfaces	one dedicate										
	Power-on and										
Security features	Optional TCN pad lock										
Operating systems	Microsoft Wir	ndows Serve	er 2019/2	016/2012 R2	2. Red	Hat E	nterprise Li	nux 7.5.			
supported	SUSE Linux I	Enterprise S	Server 12	SP3. VMwa	re vSp	here (ESXi) 6.7/6	.5 U2			
	XClarity Cont	roller Stanc	lard, option	onal upgrade	s to A	dvanc	ed or Enter	orise are			
Systems	available. En	erav Manaa	er XClar	itv Administra	ator. I I	EDs o	n front pane	show th	ne		
management	status of pow										
GPU support	Up to one op										
	MT 7Y45: 3-y										
Base warranty	MT 7Y46: 1-y										
	Supports one										
Power supply				W. 80 PLUS							
i ower suppry			t hot-swa	p power sup	plies,	550W	each. 80 Pl	_US Plat	inum		
	certified										

Components	Specification	
Video	Integrated Matrox G200 in XClarity Controller	
Cooling	One fixed rear fan, one fixed front fan, CPU fan, PSU fan. One optional front fan for 2nd disk drive cage	
Front ports	One XClarity Controller USB connector, one USB 3.1 Gen 1	
Rear ports	2x USB 3.1 Gen 2. 2x USB 3.1 Gen 1. 2x RJ-45. 1x XClarity Controller network connector. 1x COM. 1x VGA	
Environmental specification	Supports ASHRAE A2	
Environmental certification	Energy Star Server 2.1 certified	



Expansion slotsSupports three PCIe 3.0 slots as following:

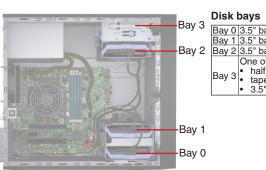
	•
Slot 1	PCIe 3.0 x1, full height, half length, links to PCH
Slot 2	PCIe 3.0 x16, full height, half length, links to CPU
Slot 3	PCIe 3.0 x4, full height, half length, links to PCH
Slot 4	PCIe 3.0 x8 (negotiable link width x4), full height, half length, links to PCH

Partial options for ThinkSystem ST250

ThinkSystem 8GB TruDDR4 (1Rx8, 1.2V) 2666 MHz UDIMM	4ZC7A08696
ThinkSystem 16GB TruDDR4 (2Rx8, 1.2V) 2666 MHz UDIMM	4ZC7A08699
ThinkSystem 3.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	7XB7A00049
ThinkSystem 3.5" 8TB 7.2K SATA 6Gb Hot Swap 512e HDD	7XB7A00053
900GB 15K 12Gbps SAS 2.5" G4HS 512e HDD	7XB7A00023
300GB 10K 12Gbps SAS 2.5" G4HS HDD	7XB7A00024
600GB 10K 12Gbps SAS 2.5" G4HS HDD	7XB7A00025
900GB 10K 12Gbps SAS 2.5" G4HS HDD	7XB7A00026
1.2TB 10K 12Gbps SAS 2.5" G4HS HDD	7XB7A00027
1.8TB 10K 12Gbps SAS 2.5" G4HS 512e HDD	7XB7A00028
2.4TB 10K SAS 12Gb HS 512e HDD	7XB7A00069
300GB 10K 12Gbps SAS 2.5" G4HS SED	7XB7A00030
1TB 7.2K 12Gbps NL SAS 2.5" G4HS HDD	7XB7A00034
2TB 7.2K 12Gbps NL SAS 2.5" G4HS HDD	7XB7A00035
M.2 CV3 128GB SATA SSD	7N47A00130
ThinkSystem ST50/ST250 Rack Mount Kit	4M17A12785

ThinkSystem ST50 Platform Specifications

Components	Specification					
Form factor	Tower or 4U rack with optional rack mount kit					
Dimensions	Height: 375 mm (14.76 in), width: 175 mm (6.89 in), depth: 407 mm (16.0 in)					
Weight	Maximum configuration: 24.7 lb (11.2 kg)					
Processor	Up to one Intel Xeon E family processor, up to 95W, up to 6 cores at 3.8GHz, up to 12MB cache, up to DDR4-2666 memory speed. Or up to one 8th Intel Core i3 processor, up to 91W, up to 4 cores at 4.0GHz, up to 8BMB cache, up to DDR4-2400 memory speed. Or up to one Intel Pentium Gold processor, up to 54W, 2 cores at 3.9GHz, 4MB cache, DDR4-2400 memory speed Or up to one Intel Celeron processor, up to 54W, 2 cores at 3.2GHz, 2MB cache, DDR4-2400 memory speed					
Chipset	ntel C246 Platform Controller Hub					
Memory	4 DIMM sockets with 2 channels, 2 DIMMs per channel. UDIMM. DDR4-2666. Non-ECC UDIMM are supported in China only					
Memory capacity	64GB with 4x 16GB UDIMMs, both ECC and Non-ECC					
Memory protection	ECC					
	Supports the following RAID/HBA adapters:					
Storage controllers	RAID adapter Interface Drive type RAID levels JBOD Cache Drive type FastPath					
Disk drive bays	Up to 4x 3.5"/2.5" Non-hot swap SATA/SAS cabled drive, HDD, SSD, or mixing of HDD and SSD. 4th bay is optional with 5.25" to 3.5" conversion kit and occupies 5.25" bay					
SD card reader	Up to two SD card with optional SD card module, 32GB or 64GB					
Disk support	3.5" HDD, SATA6Gbps, 7.2K 1TB/2TB/4TB/6TB/8TB 2.5" SSD, SATA6Gbps 240GB/480GB/960GB SD card 32GB/64GB					
Optical	One 5.25" bays for half-height optical, LTO-7 SAS or RDX USB 3.0 tape drive, or 4th disk bay plus one slim optical					
Network interfaces	One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wa on-LAN. Optional PCIe ethernet adapters are available					
Security features	Power-on and admin password. Trusted Platform Module, TCG 1.2 or 2.0 compliant, Optional TCM in China only. Optional chassis intrusion switch, Kensington lock, and pad lock					
Operating systems supported	Microsoft Windows Server 2019/2016. Red Hat Enterprise Linux 7.5. VMware vSphere (ESXi) 6.5 U2					
Systems management	ntel Active Management Technology 12 on Xeon models, ntel Standard Manageability on other models					
GPU support	Up to one optional NVIDIA Quadro P620					
Base warranty	MT 7Y48: 3-year limited onsite service with 9x5/NBD MT 7Y49: 1-year limited onsite service with 9x5/NBD					
Power supply	Supports one 250W or 400W power supply, 100V - 240V, 92% PSU. Climate Savers Computing Platinum and 80 PLUS Platinum qualified. 400W PSU supports one 6+2-pin aux power connector.					
Video	Integrated Intel UHD Graphics P630 in -G suffix Xeon processors, or Intel UHD Graphics 630 in Core i3, or Intel UHD Graphics 610 in Pentium and Celeron processors					
Cooling	Two fixed system fans, CPU fan, PSU fan, and optional media bay fan					
Front ports	2x USB 3.1 Gen 1 Type A					
riear ports	2x USB 3.1 Gen 1 Type A. 2x USB 2.0 Type-A. 1x RJ-45. 1x COM. 1x line-out. 2x DP (DP needs Core, Pentium, Celeron, or -G suffix Xeon processor)					
Environmental specification	Supports ASHRAE A2					
Environmental certification	Energy Star Server 2.1 certified. More environmental information please see: www.lenovo.com/social_responsibility/us/en/environment/					



,	Bay 0	3.5" bay, HDD or SSD
	Bay 1	3.5" bay, HDD or SSD
2	Bay 2	3.5" bay, HDD or SSD
	Bay 3	One of the following: • half-height optical • tape drive • 3.5" bay + slim optical

Expansion slotsSupports three PCle 3.0 slots as following:

Slot 1	PCle	3.0	x16, full height, half length, links to CPU
Slot 2	PCle	3.0	x1, full height, half length, links to PCH
Slot 3	PCle	3.0	x16 (negotiable link width x4), full height, half length, links to PCH

Partial options for ThinkSystem ST50

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ThinkSystem 8GB TruDDR4 (1Rx8, 1.2V) 2666 MHz UDIMM	4ZC7A08696
ThinkSystem 16GB TruDDR4 (2Rx8, 1.2V) 2666 MHz UDIMM	4ZC7A08699
ThinkSystem ST50 3.5" 1TB 7.2K SATA 6Gb Non-Hot Swap 512n HDD	4XB7A13554
ThinkSystem ST50 3.5" 2TB 7.2K SATA 6Gb Non-Hot Swap 512n HDD	4XB7A13555
ThinkSystem ST50 3.5" 4TB 7.2K SATA 6Gb Non-Hot Swap 512n HDD	4XB7A13556
ThinkSystem ST50 3.5" 6TB 7.2K SATA 6Gb Non-Hot Swap 512e HDD	4XB7A13557
ThinkSystem ST50 3.5" 8TB 7.2K SATA 6Gb Non-Hot Swap 512e HDD	4XB7A13558
ThinkSystem ST50 3.5" Intel S4510 240GB Entry SATA 6Gb Non Hot Swap SSD	4XB7A14914
ThinkSystem ST50 3.5" Intel S4510 480GB Entry SATA 6Gb Non Hot Swap SSD	4XB7A14915
ThinkSystem ST50 3.5" Intel S4510 960GB Entry SATA 6Gb Non Hot Swap SSD	4XB7A14916
ThinkSystem ST50 HH ODD / Tape Cable Kit	4Z57A13568
ST50 5.25 to 3.5 HDD kit W/ Slim ODD	4M17A12096
	4X97A12100
	4X97A12099
ThinkSystem ST50 Super Cap Bracket & Cable Kit	4M17A12094
	4M17A12095
ThinkSystem ST50/ST250 Rack Mount Kit	4M17A12785





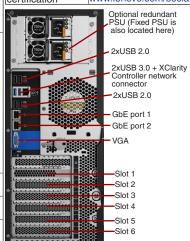




ThinkSystem ST550 Platform Specifications

Components	Specificatio	n							
Form factor	Specification Tower or 4U rack								
Dimensions	Without foot stands and security door: Height: 425.5 mm (16.8 in). Width: 175.8 mm (6.92 in). Depth: 666.4 mm (26.24 in)								
Weight	Maximum configuration: 81.35 lb (36.9 kg)								
Processor	Up to two 125W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 20 cores at 2.0GHz, up to 3.8GHz with 4 cores. Two processors are connected with two UPI (Ultra Path Interconnect) links up to 10.4GT/s								
Chipset				terconnect) iirik	o up ic	7 10.40	11/3		
Memory	Up to 12 DIMM sockets. Each processor supports up to 6 DIMM sockets with 6 channels. DDR4-2933 or DDR4-2666. RDIMMs								
Memory capacity				and two proces	ssors				
Memory protection		y mirroring, ar		<u> </u>	500.0				
mornory protoction		following RAII							
	'''	Tollowing HAII	JIIDA aud	apters.					
	RAID adapte	er Interface	Drive type	RAID levels	JBOD	Cache	Cache	FastPath	Max qty
	For SS Onboa	6Gbps SAIA	SATA	0/1/10/5	Yes	None	None	No	-
	530-8				Yes	None		Yes	2
Ctorogo controllara	730-8				Yes		None	No	2
Storage controllers	930-8			0/1/10/5/50/6/60	Yes		Flash backup	Yes	2
	For HS 930-1			0/1/10/5/50/6/60 0/1/10/5/50/6/60	Yes Yes		Flash backup Flash backup	Yes Yes	1
	bays 430-8		SATA/SAS	-	Yes	None		163	2
	430-1	3i 12Ghns SAS	SATA/SAS	_	Yes	None			1
	430-8		SATA/SAS	-	Yes	None		-	6
	930-8	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60			Flash backup	Yes	6
		or two interna		for boot, dual N			oorts mirroring	g	
	For 3.5" bay	3.5" HDD, SA					TB/8TB/10TB		
	(3.5" disks or				1TB/2TB/4TB/6TB/10TB				
	2.5" disks with				00GB/6		. 2, . 0 . 2		
		2.5" SSD, SA			40GB/4				
	3.5" tray)								
						1TB/2TB 1TB/2TB			
Internal storage									
		2.5" HDD, SA					00GB/1.2TB/1.	818	
	For 2.5" bay	2.5" HDD, SA				00GB/9			
			2.5" SSD, SAS12Gbps		400GB/800GB/3.84TB				
		2.5" SSD, SA	2.5" SSD, SATA6Gbps		240GB/480GB				
		2.5" NVMe S	2.5" NVMe SSD, AnyBay		1.92TB/3.84TB				
		M.2 SATA SS	D	3	2GB/12	28GB/48	0GB		
Optical	Two 5.25" bays for optical and tape drive. Supports DVD-ROM or DVD±RW drives, half-height. Supports LTO-6 SAS, LTO-7 SAS, and RDX USB 3.0 tape drives								
Network interfaces	Integrated one dedicated management port plus two GbE ports. Optional PCle adapters are supported. NC-SI and Wake-on-LAN are available on GbE port 1 (See right)								
Security features	Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel. Optional chassis intrusion switch								
Operating systems supported	Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.3/6.9. SUSE Linux Enterprise Server 12 SP2/11 SP4. VMware vSphere (ESXi) 6.5/6.0 U3								
Systems management	XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Provisioning Manager. Essentials. LEDs on front panel show the status of power, ID, network, simple-swap disks, and system error								
GPU support	Up to two optional NVIDIA Quadro P2000 or Quadro P6000								

Components	Specification				
Base warranty	MT 7X09: 1-year limited onsite service with 9x5/NBD MT 7X10: 3-year limited onsite service with 9x5/NBD				
Power supply	Supports one fixed 450W 80 PLUS Gold qualified AC power supply, non-hot swap, no redundant. Or up to two redundant hot-swap 550W/750W/1100W 80 PLUS Platinum qualified AC power supplies. Or up to two redundant hot-swap 750W Titanium qualified AC power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V				
Video	Integrated Matrox G200 in XClarity Controller				
Cooling	Up to four fans with one for redundant. Two fans for single processor, three fans for dual processor or single processor with 4 x 2.5" HS bay installed. 4th fan is N + 1 redundant or GPU installed				
Front ports	One XClarity Controller USB connector, one US	SB 3.0			
Rear ports	One VGA, two USB 3.0, four USB 2.0, two ethernet (RJ-45), one XClarity Controller network connector. Optional COM port				
	Supports ASHRAE A4 with limitations.				
	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)			
	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)			
	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)			
Environmental	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)			
specification	Humidity - operating, non-condensing	A4: 8%~90%. A3:8%~85%. A2:20%~80%			
	Humidity - storage (with package), non-condensing	8%~90%			
	Models should meet the following requirements to support A3 and A4:				
	System rear fan required, no system fan fall 450W fixed power supply not installed, redundant power supplies required NVMe SSD not installed GPU not installed When 4 x 2.5" bay installed, only support up to 2TB SAS HDD/SSD and all SATA HDD/SSD				
Environmental certification					
oor anoanon	www.ieriovo.com/gooldi_responsion.elete				



Expansion slots

•	
Slot 1 (CPU1)	PCIe 3.0 x8, full height, half length
Slot 2 (CPU1)	PCIe 3.0 x16, full height, half length
	PCIe 3.0 x16, full height, full length, double-width
Slot 4 (CPU2)	PCIe 3.0 x16 (x8 elec), full height, full length
	PCIe 3.0 x16, full height, full length, double-width
Slot 6 (CPU1)	PCIe 3.0 x8 (x4 elec), full height, full length

Note: All expansion cards and redundant PSU are optional.

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7X77A03475	ThinkSystem ST550 2.5" SATA/SAS 4-Bay Backplane Kit
7X77A03476	ThinkSystem ST550 2.5" Anybay 8-Bay Backplane Kit
7TP7A04369	ThinkSystem ST550 2.5" 8-Bay Backplane Kit
7TP7A04370	ThinkSystem ST550 3.5" SATA/SAS 4-Bay Backplane kit
7X77A03481	ThinkSystem ST550 3.5" Simple Swap Bracket Plate
7X77A03484	ThinkSystem ST550 4U Security Bezel
7X77A03485	ThinkSystem ST550 CMA kit
7X77A03488	ThinkSystem ST550 4U Tower to Rack Conversion Kit
7Z17A02577	ThinkSystem ST550 COM Port Upgrade Kit
7XH7A06781	ThinkSystem ST550 Front Mid FAN Module for 4x2.5" ODD conversion
7TP7A04371	ThinkSystem ST550 Rear FAN Module for RDN FAN

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Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

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Carry-in or Mail-in Service: Parts and labor repair coverage where the customer is responsible for shipping (including packaging) or delivery to authorized warranty provider or repair center.

Depot or Courier Service: Parts and labor repair coverage where shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

Expedited Depot: Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

Onsite / In-home Service: Parts and labor repair coverage where labor is provided onsite at your place of business.

If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.

International Warranty Service (IWS): PC repair coverage for customers who require a critical warranty repair while travelling internationally. Visit www.lenovo.com/internationalwarranty for details. Visit www.lenovo.com/warranty for Lenovo Warranty Services terms and conditions for complete details and restrictions.

Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

Battery life: Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

Visit http://psref.lenovo.com/ for the latest version of Product Specifications Reference.

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