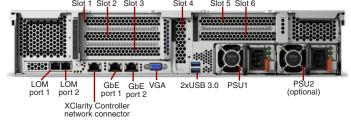
ThinkSystem SR590 Platform Specifications

Components	Specification						(
Form factor	2U rack										
Dimensions] F		
Weight	Maximum configuration: 61.7 lb (28 kg)										
Processor	Up to to Platinui	Up to two 150W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 26 cores at 2.0GHz, up to 3.6GHz with 4 cores. Two processors are								F	
Chipset	Intel C622 Platform Controller Hub										
Memory	Up to 16 DIMM sockets. Each processor supports up to 8 DIMM sockets with 6 channels. DDR4-2666. RDIMMs and LRDIMMs are supported, but memory types cannot be intermixed										
Memory capacity	With RDIMMs: Up to 512GB with 16 x 32 GB RDIMMs and two processors With LRDIMMs: Up to 1TB with 16 x 64 GB LRDIMMs and two processors										
Memory protection					emory sparing	l					╝
	Suppor	rts the f	following	RAID/HB	A adapters:						HE
		RAID adapter	Interface	Drive type	RAID levels	JBOD	Cache	Cache protection	FastPath	Max qty	S
	For SS C bays S	Onboard SATA	6Gb SATA		0/1/10/5	Yes	None	None	No	-	
				S SATA/SAS S SATA/SAS		Yes	None		Yes No	2	
Storage controllers					0/1/10/5/50/6/60	Yes Yes	1GB 2GB	Flash backup	Yes	2	
	Eor Lie	930-16i	12Gbs SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	1	
	have 4			S SATA/SAS S SATA/SAS	-	Yes Yes	None None		-	1	E
		430-8e	12Gbs SAS	SATA/SAS	-	Yes	None		-	5	
		430-16e	12Gbs SAS	S SATA/SAS	-	Yes	None		-	5	
	<u> </u>	930-8e	12Gbs SAS	S SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	3	
			ilable in Ch		up to 8, or 3.5						_
Disk drive bays	up to 12. On 12x 3.5", 8x 2.5", or 16x 2.5" bay models, 4 bays can be upgrade to AnyBay. Optional 2 rear 3.5" HS bays are supported on 12 x 3.5" model, takes place in riser card 1 location. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring										
	For 3.5" S	SS bay						1TB/2TB/4TB/6TB/8TB			
	Eor 2 E" k	hov						1TB/2TB/4TB/6TB/8TB/10TB 1TB/2TB/4TB/6TB/10TB			
	For 3.5" b			3.5" HDD, SAS12Gbs, 15K			_	300GB/600GB/900GB			
	3.5" tray)			2.5" SSD, SATA6Gbs			_	240GB/480GB			Λ
				2.5" NVMe SSD, AnyBay				960GB/1.92TB/3.84TB			E
				2.5" HDD, SATA6Gbs, 7.2K			1TE	1TB/2TB			
Internal storage			2					1TB/2TB			S
			2	2.5" HDD, SAS12Gbs, 10K				300GB/600GB/900GB/1.2TB/1.8TB			
	For 2.5" b	hav		2.5" HDD, SAS12Gbs, 10K, SED				300GB/600GB			
	01 2.0 1	ouy		2.5" HDD, SAS12Gbs, 15K				300GB/600GB/900GB			
				2.5" SSD, SAS12Gbs				400GB/800GB/3.84TB			S
			-	2.5" SSD, SATA6Gbs			_	240GB/480GB			Š
	M.2 boot	drivo		2.5" NVMe SSD, AnyBay M.2 SATA SSD				960GB/1.6TB/1.92TB/3.84TB 32GB/128GB			9999
Ontical						ont: -	_				
Optical					SB DVD±RW				1014	-16	S
Network interfaces	Up to two ports supported. ML2 adapter requires riser card with ML2 slot. 42 43 44										
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 7.3/6.9. SUSE					- 7 7 4					
											4
Systems	available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner.					-	10				
management	Provision	oning N	/lanager.	Essential	s. Light Path I	Diagn	ostics				
GPU support	None										1
Base warranty	MT 7X9				service with 93 service with 93						1
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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, four fans (3+1) for dual processor model					
Front ports	One XClarity Controller USB, one USB 3.0, one optional VGA					
Rear ports	One VGA, two USB 3.0, two ethernet (RJ Optional COM port	-45), one XClarity Controller connector.				
Environmental	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)				
	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 3.5" models. mo M.2 drives					
Environmental certification	Energy Star Server 2.1 certified. More environmental information please see: www.lenovo.com/social responsibility/us/en/environment/					
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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 1-3 (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, 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)	PCIe 3.0 x16, full height, half length, requires 2nd CPU
Slot 6 (riser card 2)	PCIe 3.0 x8, full height, half length
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System unique options

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