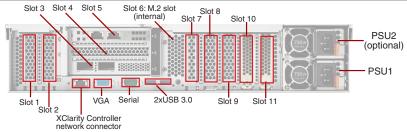
ThinkSystem SR850 Platform Specifications

Components	Specification 2U rack										
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 lb (27 kg)										
Processor	Supports up to four 165W 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 2.1GHz, up to 3.6GHz 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										
Memory	Up to 48 DIMM sockets. 24 DIMM sockets on system main board, 24 DIMM sockets on optional processor and memory expansion tray. Each processor supports up to 12 DIMM sockets with 6 channels. DDR4-2666. RDIMMs, LRDIMMs, 3DS RDIMMs are supported, but memory types cannot be intermixed. 3DS RDIMM is planned to available later										
Memory capacity	Up to 1.5TB with 48 x 32GB RDIMMs and four processors. Or up to 3TB with 48 x 64GB LRDIMMs and four processors. Or up to 6TB with 48 x 128GB 3DS RDIMMs and four -M suffix processors. Or up to 3TB with 24 x 128GB 3DS RDIMMs and four non -M suffix processorsM suffix processor supports 1.5TB memory per socket, non -M suffix processor supports 768GB memory per socket										
Memory protection		ts the follow									
	Feature	Interface	Drive type		<u>'</u>		Cache	Cache	FastPath	Max	
Storage controllers	530-8i 12Gbps SAS SATA/SAS (730-8i 12Gbps SAS SATA/SAS (930-8i 12Gbps SAS SATA/SAS (0/1/1 0/1/1 0/1/1 0/1/1 - - 0/1/1	0/1/10/5/50 0/1/10/5/50 0/1/10/5/50/6/60 0/1/10/5/50/6/60 		None 1GB 2GB 4GB None None	None Flash backup Flash backup None None Flash backup None	Yes No Yes Yes Yes	2 2 2 1 2 1 4 8		
<u></u>	Note: 730-	-8i is available i ts 8 front 2.	in China only	y SAS					Bay, or 16		nt 2.5"
Disk drive bays		AS HS bay:					dual N	// 2 SSD et	innorte n	nirro	ring
Internal storage	Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring 2.5" HDD, SAS12Gbps, 7.2K 1TB/2TB 2.5" HDD, SAS12Gbps, 10K 300GB/300GB SED/600GB/600GB SED/900GB/1.2TB/1.8TB 2.5" SD, SAS12Gbps, 15K 300GB/600GB/900GB 2.5" SSD, SAS12Gbps 400GB/800GB/3.84TB/T.68TB 2.5" SSD, SATA6Gbps 240GB/480GB 2.5" SND, SATA6Gbps 240GB/480GB 2.5" NVMe SSD, AnyBay 900GB/660GB/1.6TB/1.92TB/3.84TB NVMe SSD, PCIe 3.0 x4, HHHL adapter 1.6TB/1.92TB/3.2TB/3.84TB M.2 SATA SSD for boot 32GB/128GB										
Optical	No inter	rnal optical	bay. Opti	onal	USB DVI	D±RW	/ optic	al drive			
Network interfaces	No internal optical bay. Optional USB DVD±RW optical drive 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 PCle 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 2016/2012 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 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										
Base warranty	MT 7X18: 1-year limited onsite service with 9x5/NBD MT 7X19: 3-year limited onsite service with 9x5/NBD										
Power supply	Up to two redundant hot-swap 750W/1100W/1600W 80 PLUS Platinum qualified AC power supplies. 1600W Platinum are 200V - 240V, others are 100V - 240V										

Components	Specification					
Video	Integrated Matrox G200 in XClarity Controller					
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 optional 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: • NVMe drives not installed • PCIe flash adapter not installed • M.2 SSD not installed					
Environmental	Energy Star Server 2.1 certified. More environmental information please see:					
certification	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: PCIe 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)	PCle 3.0 x8, low profile
Slot 10 (onboard)	PCIe 3.0 x8, low profile
Slot 11 (onboard)	PCIe 3.0 x16, low profile
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System unique options for ThinkSystem SR850

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7B27A03	3953	ThinkS	ystem SR850/SR860 Processor and Memory Expansion Tray
7C57A03	3999	ThinkS	ystem SR850/SR860 2.5" Anybay 8-Bay BP Kit
7C57A03	3998	ThinkS	ystem SR850/SR860 2.5" SATA/SAS 8-Bay BP Kit
7X97A03	3954	ThinkS	ystem SR850 Front VGA Connector Upgrade Kit
7C57A03	3950	ThinkS	ystem SR850/SR860 x8/x8/x8 PCIe FH Riser Kit
7C57A03	3951	ThinkS	ystem SR850/SR860 x8/x8/x8ML2 PCIe FH Riser Kit
7C57A03	3952	ThinkS	vstem SR850/SR860 x8/x16ML2 PCIe FH Riser Kit