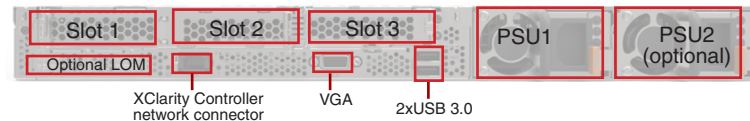


ThinkSystem SR630 Platform Specifications

Product Specifications Reference (PSREF)

Components	Specification																																																																																										
Form factor	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: 41.9 lb (19 kg)																																																																																										
Processor	Up to two 205W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 28 cores at 2.5GHz, up to 3.6GHz with 4 cores. Two processors are connected with two UPI (Ultra Path Interconnect) links up to 10.4GT/s																																																																																										
Chipset	Intel C624 Platform Controller Hub																																																																																										
Memory	Up to 24 DIMM sockets. 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 768GB with 24 x 32 GB RDIMMs and two processors. Or up to 1.5TB with 24 x 64 GB LRDIMMs and two processors. Or up to 3TB with 24 x 128 GB 3DS LRDIMMs and two -M suffix processors. -M suffix processor supports 1.5TB memory per socket, non -M suffix processor supports 768GB memory per socket																																																																																										
Memory protection	ECC, memory mirroring, and memory sparing																																																																																										
Storage controllers	One dedicated internal RAID slot for most RAID/HBA adapters. Supports the following RAID/HBA adapters:																																																																																										
	<table border="1"> <thead> <tr> <th>Feature</th> <th>Interface</th> <th>Drive type</th> <th>RAID levels</th> <th>JBOD</th> <th>Cache</th> <th>Cache protection</th> <th>FastPath</th> <th>Max qty</th> </tr> </thead> <tbody> <tr> <td>530-8i</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>0/1/10/5/50</td> <td>Yes</td> <td>None</td> <td>None</td> <td>Yes</td> <td>1</td> </tr> <tr> <td>730-8i</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>0/1/10/5/50</td> <td>Yes</td> <td>1GB</td> <td>None</td> <td>No</td> <td>1</td> </tr> <tr> <td>930-8i</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>0/1/10/5/50/6/60</td> <td>Yes</td> <td>2GB</td> <td>Flash backup</td> <td>Yes</td> <td>1</td> </tr> <tr> <td>930-16i</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>0/1/10/5/50/6/60</td> <td>Yes</td> <td>4GB</td> <td>Flash backup</td> <td>Yes</td> <td>1</td> </tr> <tr> <td>430-8i</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>-</td> <td>Yes</td> <td>None</td> <td>None</td> <td>-</td> <td>1</td> </tr> <tr> <td>430-16i</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>-</td> <td>Yes</td> <td>None</td> <td>None</td> <td>-</td> <td>1</td> </tr> <tr> <td>930-8e</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>0/1/10/5/50/6/60</td> <td>Yes</td> <td>4GB</td> <td>Flash backup</td> <td>Yes</td> <td>2</td> </tr> <tr> <td>430-8e</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>-</td> <td>Yes</td> <td>None</td> <td>None</td> <td>-</td> <td>2</td> </tr> <tr> <td>430-16e</td> <td>12Gbps SAS</td> <td>SATA/SAS</td> <td>-</td> <td>Yes</td> <td>None</td> <td>None</td> <td>-</td> <td>2</td> </tr> </tbody> </table>	Feature	Interface	Drive type	RAID levels	JBOD	Cache	Cache protection	FastPath	Max qty	530-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	None	None	Yes	1	730-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	1GB	None	No	1	930-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	2GB	Flash backup	Yes	1	930-16i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	1	430-8i	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	1	430-16i	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	1	930-8e	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	2	430-8e	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	2	430-16e	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	2
	Feature	Interface	Drive type	RAID levels	JBOD	Cache	Cache protection	FastPath	Max qty																																																																																		
	530-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	None	None	Yes	1																																																																																		
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<i>Note: 730-8i is available in China only. 930-8e, 430-8e, and 430-16e will be placed in slot 2 firstly.</i>																																																																																											
Disk drive bays	Supports 4 front 3.5" SATA/SAS HS bays, or 8 front 2.5" SATA/SAS HS bays, or 10 front 2.5" SATA/SAS HS bays with 4 AnyBay support. 10 front 2.5" AnyBay will be available later. Optional 2 rear 2.5" HS bays are supported on 10 x 2.5" model, takes place in riser card 1 location. Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring																																																																																										
Internal storage	For 3.5" bay																																																																																										
	3.5" HDD, SATA6Gbps, 7.2K	1TB/2TB/4TB/6TB/8TB/10TB																																																																																									
	3.5" HDD, SAS12Gbps, 7.2K	1TB/2TB/4TB/6TB SED FIPS/6TB/10TB																																																																																									
	2.5" HDD, SAS12Gbps, 15K	300GB/600GB																																																																																									
	2.5" SSD, SATA6Gbps	240GB/480GB																																																																																									
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	2.5" HDD, SAS12Gbps, 15K	300GB/600GB/900GB																																																																																									
	2.5" SSD, SAS12Gbps	400GB/800GB/3.84TB/7.68TB																																																																																									
2.5" SSD, SATA6Gbps	240GB/480GB																																																																																										
2.5" NVMe SSD, AnyBay	800GB/960GB/1.6TB/1.92TB/3.84TB																																																																																										
PCIe 3.0 x4, HHHL adapter	NVMe SSD	1.6TB/1.92TB/3.2TB/3.84TB																																																																																									
M.2 boot drive	M.2 SATA SSD	32GB/128GB																																																																																									
Optical	No internal optical bay. Optional USB DVD±RW optical 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 Port 0 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 2016/2012 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. Lenovo Capacity Planner. Provisioning Manager. Essentials. Light Path Diagnostics																																																																																										

Components	Specification												
GPU support	Up to one optional GPU, requires riser card with PCIe x16 full height slot. Supports NVIDIA Quadro P2000												
Base warranty	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/1100W 80 PLUS Platinum qualified power supplies. Or up to two redundant hot-swap 750W Titanium qualified power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V												
Video	Integrated Matrox G200 in XClarity Controller												
Cooling	Five fans (4+1) for single processor model, seven 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 Controller network connector. Optional COM port												
Environmental specification	Supports ASHRAE A4 with limitations.												
	<table border="1"> <tbody> <tr> <td>Temperature - operating</td> <td>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)</td> </tr> <tr> <td>Temperature - non operating (no package)</td> <td>-10°C to 60°C (14°F to 140°F)</td> </tr> <tr> <td>Temperature - non operating (with package)</td> <td>-40°C to 70°C (-40°F to 158°F)</td> </tr> <tr> <td>Altitude - operating</td> <td>(Unpressurized): 0-10000ft (0-3048m)</td> </tr> <tr> <td>Humidity - operating, non-condensing</td> <td>A4: 8%-90%. A3:8%-85%. A2:20%-80%</td> </tr> <tr> <td>Humidity - storage (with package), non-condensing</td> <td>8%-90%</td> </tr> </tbody> </table>	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%. A2:20%-80%	Humidity - storage (with package), non-condensing	8%-90%
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	Humidity - operating, non-condensing	A4: 8%-90%. A3:8%-85%. A2:20%-80%											
	Humidity - storage (with package), non-condensing	8%-90%											
	<i>Models should meet the following requirements to support A3 and A4:</i>												
	<ul style="list-style-type: none"> 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 environmental information please see: www.lenovo.com/social_responsibility/us/en/environment/												



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 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

System unique options	
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