

ThinkStation P920 Rack Platform Specifications

Product Specifications Reference (PSREF)

Form factor	2U rack							
Dimensions	Height: 87 mm (3.4 in). Width: 445 mm (17.5 in). Depth: 720 mm (28.3 in)							
Weight	Maximum configuration: 70.54 lb (32 kg)							
Processor Sockets	2x FCLGA3647							
Processor Support	Up to two Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, or Gold							
Processor Offering	Processor	# of Cores	# of Threads	Base Frequency	Cache	TDP	Memory Types	
	Xeon Gold 6252	24	48	2.1GHz	35.75MB	150W	DDR4-2933	
	Xeon Gold 6234	8	16	3.3GHz	25MB	130W	DDR4-2933	
	Xeon Gold 6230	20	40	2.1GHz	28MB	125W	DDR4-2933	
	Xeon Gold 5218	16	32	2.3GHz	22MB	125W	DDR4-2666	
	Xeon Gold 5215	10	20	2.5GHz	13.75MB	85W	DDR4-2666	
	Xeon Silver 4215	8	16	2.5GHz	11MB	85W	DDR4-2400	
	Xeon Silver 4214	12	24	2.2GHz	17MB	85W	DDR4-2400	
	Xeon Silver 4210	10	20	2.2GHz	14MB	85W	DDR4-2400	
	Xeon Silver 4208	8	16	2.1GHz	11MB	85W	DDR4-2400	
Xeon Bronze 3204	6	6	1.9GHz	8.25MB	85W	DDR4-2133		
Chipset	Intel C624 Platform Controller Hub							
Memory Sockets	24 DIMM sockets with 12 channels. 12 DIMM sockets with 6 channels per processor							
Memory Types	DDR4-2933 RDIMM, 8GB/16GB/32GB available							
Memory Capacity	768GB with 24x 32GB DDR4-2933 RDIMM							
Memory protection	ECC, memory mirroring, and memory sparing							
Expansion slots	Slot 1 (riser card 1)	Full height, half length, double-wide						
	Slot 2	Not present, for double-wide card in slot 1						
	Slot 3 (riser card 1)	PCIe 3.0 x16 (x8 lanes), 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 x16, full height, half length, requires 2nd CPU						
	Slot 7 (onboard)	PCIe 3.0 x8 (dedicated to an internal storage controller)						
Integrated Graphics	Integrated Matrox G200 in XClarity Controller							
Discrete Graphics Offering	Graphics	Memory	Power	Connector	SLI / NVlink	Max Qty		
	Quadro P620	2GB GDDR5	40W	4xminiDP		3		
	Quadro RTX 4000	8GB GDDR6	160W	3xDP, 1xVirtualLink		3		
	Quadro RTX 5000	16GB GDDR6	265W	4xDP, 1xVirtualLink		2		
	T4	16GB GDDR6	70W	-		5		
	V100	16GB/32GB HBM2	250W	-		2		
Storage Controller	Storage Controller	Type	Interface	RAID	Cache			
	530-8i	Optional	12Gbps SAS	0/1/10/5/50	-			
Storage Support	Disk Type	Interface	RPM	Offering	Max Qty			
	3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB/4TB/6TB/8TB/10TB/12TB/14TB	8			
	3.5" SATA SSD	SATA 6Gb/s	7.2K	240GB/480GB/960GB/1.92TB/3.84TB	8			
	M.2 SATA SSD	SATA 6Gb/s		480GB	2			
Storage Bays	Bay Type	Maximum Drives Qty						
	M.2	2x M.2 SATA SSD non-hot swap						
	Disk bay	8x 3.5" SATA/SAS hot-swap disk bays						
Power supply	Up to two redundant hot-swap 1100W or 1600W 80 PLUS Platinum qualified AC power supplies. 100V - 240V							
Media reader	None							
Network interfaces	One dedicated management port. One LOM slot for customized LOM with up to four RJ-45 10GbE ports. Wake-on-LAN and NC-SI are available on Port 0 of LOM							
WLAN + Bluetooth	None							
Security features	Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional lockable security bezel							
Systems management	XClarity Controller Standard. Energy Manager. XClarity Administrator. Lenovo Capacity Planner. Provisioning Manager. Essentials							

Diagnostic	Light Path Diagnostics		
Base warranty	3-year limited onsite service with 9x5/NBD		
Warranty upgrades	5WS7A72784	Foundation Service - 3Yr Next Business Day Response	
	5WS7A72785	Foundation Service - 4Yr Next Business Day Response	
	5WS7A72786	Foundation Service - 5Yr Next Business Day Response	
	5PS7A72787	Essential Service - 3Yr 24x7 4Hr Response + YourDrive YourData	
	5PS7A72788	Essential Service - 4Yr 24x7 4Hr Response + YourDrive YourData	
5PS7A72789	Essential Service - 5Yr 24x7 4Hr Response + YourDrive YourData		
HD Audio	None		
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		
Operating system	Microsoft Windows Server 2016 and 2019. Red Hat Enterprise Linux (RHEL) 7 and 8. SUSE Linux Enterprise Server (SLES) 12 and 15. VMware vSphere (ESXi) 6.5 and 6.7.		
	Supports ASHRAE A4 with limitations.		
Environmental specification	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%	
	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"> • NVMe drives not installed • PCIe flash adapter not installed • Graphic processing unit (GPU) not installed • Must have redundant PSU • Processors with TDP more than or equal to 150-watt not installed 		
	Environmental Certifications	Energy Star Server 2.1 certified. More environmental information please see: www.lenovo.com/social_responsibility/us/en/environment/	
	ISV certifications	Certifications from NVIDIA Quadro ISV Certified	
Options	4XB7A62801	Intel S4510 3.5" 240G SSD OPT	
	4XB7A62802	Intel S4510 3.5" 480G SSD OPT	
	4XB7A62803	Intel S4510 3.5" 960G SSD OPT	
	4XB7A62804	Intel S4510 3.5" 1.92T SSD OPT	
	4XB7A62805	Intel S4510 3.5" 3.84T SSD OPT	
	4XB7A62806	4TB7.2K 6GSATA 3.5G4HS HDD OPT	
	4XB7A62807	6TB7.2K 6GSATA512e 3.5G4HS OPT	
	4XB7A62808	8TB7.2K 6GSATA512e 3.5G4HS OPT	
	4XB7A62809	10T7.2K 6GSATA512e 3.5G4HS OPT	
	4XB7A62810	3.5" 12TB 7.2K SATA 512e HDD	
4XB7A62811	14T 3.5" 7.2 SATA HDD OPT		
4ZC7A62797	8GB 1RX8 PC4-2933R 8Gb 1.2V		
4ZC7A62798	16GB 1RX4 PC4-2933R 8Gb 1.2V		
4ZC7A62799	16GB 2RX8 PC4-2933R 8Gb 1.2V		
4ZC7A62800	32GB 2RX4 PC4-2933R 8Gb 1.2V		