

# ThinkStation P920 Platform Specifications

Form factor	55L Tower						
Dimensions	200mm/7.87" W x 620mm/24.4" D x 446mm/17.56" H (with feet)						
Weight	Maximum configuration: 71.3 lb (32.3kg)						
Processor Sockets	2x FCLGA3647						
Processor Support	Up to two 205 W Gen 1 or Gen 2 Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum						
Processor Offering	Processor	# of Cores	# of Threads	Base Frequency	Cache	TDP	Memory Types
	Xeon Platinum 8280	28	56	2.7GHz	39MB	205W	DDR4-2933
	Xeon Gold 6254	18	36	3.1GHz	25MB	200W	DDR4-2933
	Xeon Gold 6244	8	16	3.6GHz	25MB	150W	DDR4-2933
	Xeon Gold 6242	16	32	2.8GHz	22MB	150W	DDR4-2933
	Xeon Gold 6238T	22	44	1.9GHz	30MB	125W	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 6226	12	24	2.7GHz	19MB	125W	DDR4-2933
	Xeon Gold 5222	4	8	3.8GHz	16.5MB	105W	DDR4-2933
	Xeon Gold 5218	16	32	2.3GHz	22MB	125W	DDR4-2666
	Xeon Gold 5217	8	16	3.0GHz	11MB	115W	DDR4-2666
	Xeon Gold 5215	10	20	2.5GHz	13.75MB	85W	DDR4-2666
	Xeon Silver 4216	16	32	2.1GHz	22MB	100W	DDR4-2400
	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 4209T	8	16	2.2GHz	11MB	70W	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
	Xeon Platinum 8160T	24	48	2.1GHz	33MB	150W	DDR4-2666
	Xeon Gold 6154	18	36	3.0GHz	24.75MB	200W	DDR4-2666
	Xeon Gold 6142	16	32	2.6GHz	22MB	150W	DDR4-2666
	Xeon Gold 6136	12	24	3.0GHz	24.75MB	150W	DDR4-2666
	Xeon Gold 6134	8	16	3.2GHz	24.75MB	130W	DDR4-2666
	Xeon Gold 6128	6	12	3.4GHz	19.25MB	115W	DDR4-2666
	Xeon Gold 5122	4	8	3.6GHz	16.5MB	105W	DDR4-2666
	Xeon Gold 5120T	14	28	2.2GHz	19.25MB	105W	DDR4-2400
	Xeon Gold 5118	12	24	2.3GHz	16.5MB	105W	DDR4-2400
	Xeon Gold 5115	10	20	2.4GHz	13.75MB	85W	DDR4-2400
	Xeon Silver 4116	12	24	2.1GHz	16.5MB	85W	DDR4-2400
	Xeon Silver 4114T	10	20	2.2GHz	13.75MB	85W	DDR4-2400
	Xeon Silver 4114	10	20	2.2GHz	13.75MB	85W	DDR4-2400
Xeon Silver 4112	4	8	2.6GHz	8.25MB	85W	DDR4-2400	
Xeon Silver 4110	8	16	2.1GHz	11MB	85W	DDR4-2400	
Xeon Silver 4109T	8	16	2.0GHz	11MB	70W	DDR4-2400	
Xeon Silver 4108	8	16	1.8GHz	11MB	85W	DDR4-2400	
Chipset	Intel C621 Chipset						
Memory Sockets	16 DIMM sockets with 12 channels. 8 DIMM sockets with 6 channels per processor						
Memory Types	DDR4-2666 RDIMM, DDR4-2666 LRDIMM, or DDR4-2933 RDIMM						
Memory Capacity	1TB (DDR4-2666 LRDIMM or DDR4-2933 RDIMM) or 512GB (DDR4-2666 RDIMM)						
Memory Protection	ECC						
Expansion slots	Slot 1 (CPU1)	PCIe 3.0 x16, full height, full length, 75W, double-width					
	Slot 2 (CPU1)	PCIe 3.0 x4, full height, full length, 25W, open ended					
	Slot 3 (CPU1)	PCIe 3.0 x16, full height, full length, 75W, double-width					
	Slot 4 (CPU1)	PCIe 3.0 x4, full height, full length, 25W, open ended					
	Slot 5 (PCH)	PCIe 3.0 x4, full height, half length, 25W, open ended					
	Slot 6 (CPU2)	PCIe 3.0 x16, full height, half length, 75W					
	Slot 7 (CPU2)	PCIe 3.0 x16, full height, full length, 75W, double-width					
	Slot 8 (CPU2)	PCIe 3.0 x16, full height, full length, 75W					

Discrete Graphics Offering	Graphics	Memory	Power	Connector	SLI / NVLink	Max Qty
	NVS 810	4GB DDR3	68W	8xmini DP		2
	Quadro P400	2GB GDDR5	30W	3xminiDP		5
	Quadro P600	2GB GDDR5	45W	4xminiDP		4
	Quadro P620	2GB GDDR5	40W	4xminiDP		4
	Quadro P1000	4GB GDDR5	50W	4xminiDP		4
	Quadro P2000	5GB GDDR5	75W	4xDP		4
	Quadro P4000	8GB GDDR5	120W	4xDP		4
	Quadro P5000	16GB GDDR5X	180W	DVI-D DL+4xDP	SLI	3
	Quadro P6000	24GB GDDR5X	250W	DVI-D DL+4xDP	SLI	3
	Quadro RTX 4000	8GB GDDR6	160W	3xDP, 1xVirtualLink		3
	Quadro RTX 5000	16GB GDDR6	265W	4xDP, 1xVirtualLink	NVLink	3
	Quadro RTX 6000	24GB GDDR6	295W	4xDP, 1xVirtualLink	NVLink	2
	Quadro RTX 8000	48GB GDDR6	295W	4xDP, 1xVirtualLink	NVLink	2
	Quadro GP100	16GB HBM2	235W	1xDVI-D DL, 4xDP	NVLink	3
Quadro GV100	32GB HBM2	250W	4xDP	NVLink	3	
Storage Controller	Storage Controller	Type	Interface	RAID	Cache	
	Onboard Intel RSTe	Std	SATA 6Gb/s	0/1/10/5		
	9440-8i PCIe	Opt	SAS 12Gb/s, SATA 6Gb/s	0/1/10/5		
	9460-16i PCIe	Opt	SAS 12Gb/s, SATA 6Gb/s	0/1/10/5/6		4GB DDR4, SuperCap
	NVMe Basic	Opt	PCIe NVMe	0/1/10		
	NVMe Premium	Opt	PCIe NVMe	0/1/10/5		
	NVMe for Intel SSD	Opt	PCIe NVMe	0/1/10/5		
Storage Support	Disk Type	Interface	RPM	Offering	Max Qty (9460 used)	
	3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB/2TB/4TB/6TB	6 (Also supports additional 4x 2.5" SATA SSD/HDD)	
	2.5" SATA HDD	SATA 6Gb/s	7.2K	500GB/500GB FIPS	10	
	2.5" SAS HDD	SAS 12Gb/s	10K	300GB/600GB	8	
	2.5" SATA SSD	SATA 6Gb/s		256GB/512GB/1TB/2TB	10	
	2.5" PCIe SSD	PCIe NVMe		1.5TB	4	
	M.2 PCIe SSD	PCIe NVMe		256GB/512GB/1TB/2TB	9	
	PCIe AIC SSD	PCIe NVMe		480GB	2	
Storage Bays	Bay Type	Maximum Drives Qty				
	M.2 slot	9x M.2 SSD (2 onboard, 7 via PCIe to M.2 adapter)				
	Flex Bay	2x 3.5" or 2.5" disks. Supports the following: <ul style="list-style-type: none"> <li>• 3x half-height optical drives</li> <li>• 2x 5.25" 9.0mm optical drives</li> <li>• 1x 5.25" 9.0mm optical drive + 1x 3.5"/2.5" SATA SSD/HDD</li> <li>• 1x 3.5"/2.5" SATA SSD/HDD with Front Access Storage Enclosure</li> </ul> 1x flex module for the following options: Tray 1: 9.0mm optical Tray 2: 15-in-1 USB 3.2 Gen 1 reader or 2x Thunderbolt Port 1 and 2: Front USB 3.2 Gen 1 Type-C or eSATA <ul style="list-style-type: none"> <li>• 3x M.2 SSD with 3x Front Removable Drive Enclosures</li> </ul>				
	Disk bay	8 disk drives with 4 bays (2 bays standard, 2 bays optional). Supports one of the following configurations: <ul style="list-style-type: none"> <li>• 4x 3.5" SATA HDD</li> <li>• 4x 3.5" SATA HDD + 4x 2.5" SATA SSD/HDD</li> <li>• 8x 2.5" SATA SSD/HDD or 8x 2.5" SAS HDD</li> </ul>				

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Max Storage	Supports up to 9x M.2 SSD + 6x 3.5" HDD/10x 2.5" SSD/10x 2.5" HDD + 2x PCIe AIC SSD. All HDD: 36TB using 6x 3.5" HDD All SSD: 38.96TB using 10x 2.5" SATA SSD, 9x M.2 SSD, and 2x PCIe AIC SSD	
Power supply	One fixed 1400 watts, autosensing, 92% PSU, 80 PLUS Platinum qualified. Countries with input voltage under 115V, output power limited to 1125 watts	
Media reader	USB 2.0 9-in-1 card reader on most models. Optional UHS-II 15-in-1 USB 3.2 Gen 1 reader on flex module	
Network interfaces	Integrated two-port gigabit ethernet (Intel i219LM and i210AT), supports Wake-on-LAN on both two ports. Optional PCIe ethernet are available	
WLAN + Bluetooth	Optional Intel Wireless-AC 8265, 2x2, 2.4GHz/5GHz, 802.11ac, Bluetooth 4.2, up to 867Mbps	
Security features	Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant, switch to 1.2 via UEFI setting. Chassis intrusion switch. Optional access panel lock, Kensington lock, and pad lock	
Intel vPro	Intel vPro technology supported. vPro requires Wireless-AC 8265 if Wi-Fi is needed	
Intel AMT	Intel Active Management Technology 11	
Diagnostic	Front 4-digit diagnostic display. ThinkStation Diagnostics for Windows. Photo-audio transfer with Lenovo PC Diagnostics for Android and iOS	
Base warranty	1 or 3-year limited onsite service with 9x5/NBD	
HD Audio	Realtek ALC662 codec	
Front ports	4x USB-A 3.2 Gen 1 (includes one 11W charging), 1x combo audio/microphone jack (3.5mm)	
Rear ports	2x USB-A 2.0, 4x USB-A 3.2 Gen 1, 2x RJ-45, 3x analog audio ports (line-in, line-out, mic-in), 2x PS/2	
Optional ports	Supports the following optional ports: Front: <ul style="list-style-type: none"> <li>• 2x Thunderbolt ports (USB-C form) on flex module, one of two ports supports video-out</li> <li>• 1x eSATA on flex module</li> <li>• 1x USB-C 3.2 Gen 1 on flex module</li> </ul> Rear: <ul style="list-style-type: none"> <li>• 1x COM port</li> <li>• 2x USB-C 3.2 gen 2 ports via PCIe adapter. One 15W, one 5W</li> </ul> Internal: <ul style="list-style-type: none"> <li>• 1x internal USB-A 3.2 Gen 1 port</li> </ul>	
Environmental specification	Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)
	Temperature - storage (no package)	14 °F to 140 °F (-10 °C to 60 °C)
	Temperature - storage (with package)	-40 °F to 140 °F (-40 °C to 60 °C)
	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)
	Humidity - operating	10%~80%, non-condensing
	Humidity - storage (with package)	10%~90%, non-condensing
Environmental Certifications	RoHS-compliant. GREENGUARD. EPEAT Silver rating. ENERGY STAR 6.1 qualified on model 30BC0008US and 30BC0009US	
ISV certifications	Please visit <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a>	

**Note:**

1. Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.
2. Any questions or advice on ThinkStation PSREF, please contact [ThinkStation PSREF developer \(houyf@lenovo.com\)](mailto:houyf@lenovo.com)