

ThinkStation P340 Tower Platform Specifications

Product Specifications Reference (PSREF)

Components		Specification									
Form factor	17L Tower										
Dimensions	Height: 376 mm (14.8 in). Width: 170 mm (6.7 in). Depth: 315.35 mm (12.4 in)										
Weight	Maximum configuration: 20.7 lb (9.4 kg)										
Processor Sockets	1x FCLGA1200										
Processor Support	Up to one Xeon, Core i9, i7, i5, or i3 processor										
Processor		Processor Number	Cores	Threads	Base Frequency	Cache	TDP	Memory Types	ECC	Processor Graphics	vPro
		Xeon W-1290P	10	20	3.7GHz	20MB	125W	DDR4-2933	Yes	UHD P630	Yes
		Xeon W-1290	10	20	3.2GHz	20MB	80W	DDR4-2933	Yes	UHD P630	Yes
		Xeon W-1270P	8	16	3.8GHz	16MB	125W	DDR4-2933	Yes	UHD P630	Yes
		Xeon W-1270	8	16	3.4GHz	16MB	80W	DDR4-2933	Yes	UHD P630	Yes
		Xeon W-1250P	6	12	4.1GHz	12MB	125W	DDR4-2666	Yes	UHD P630	Yes
		Xeon W-1250	6	12	3.3GHz	12MB	80W	DDR4-2666	Yes	UHD P630	Yes
		Core i9-10900K	10	20	3.7GHz	20MB	125W	DDR4-2933	No	UHD 630	Yes
		Core i9-10900	10	20	2.8GHz	20MB	65W	DDR4-2933	No	UHD 630	Yes
		Core i7-10700K	8	16	3.8GHz	16MB	125W	DDR4-2933	No	UHD 630	Yes
		Core i7-10700	8	16	2.9GHz	16MB	65W	DDR4-2933	No	UHD 630	Yes
		Core i5-10600K	6	12	4.1GHz	12MB	125W	DDR4-2666	No	UHD 630	Yes
		Core i5-10600	6	12	3.3GHz	12MB	65W	DDR4-2666	No	UHD 630	Yes
		Core i5-10500	6	12	3.1GHz	12MB	65W	DDR4-2666	No	UHD 630	Yes
		Core i5-10400	6	12	2.9GHz	12MB	65W	DDR4-2666	No	UHD 630	No
		Core i3-10320	4	8	3.8GHz	8MB	65W	DDR4-2666	No	UHD 630	No
		Core i3-10300	4	8	3.7GHz	8MB	65W	DDR4-2666	No	UHD 630	No
		Core i3-10100	4	8	3.6GHz	6MB	65W	DDR4-2666	No	UHD 630	No
Chipset	Intel W480 Chipset										
Memory Sockets	4 DIMM sockets with 2 channels										
Memory Types	8GB/16GB/32GB DDR4-2933 UDIMM ECC, or 4GB/8GB/16GB/32GB DDR4-2933 UDIMM non-ECC										
Memory Capacity	128GB										
Memory Protection	ECC. ECC memory and ECC-enable CPU are needed										
Expansion slots	Three PCIe 3.0 slots as following:										
	Slot 1	PCIe 3.0 x16, full height, full length, links to CPU									
	Slot 2	PCIe 3.0 x1, full height, full length, links to PCH									
	Slot 3	PCIe 3.0 x16 (negotiable link width x4), full height, full length, links to PCH									
Processor graphics	Integrated Intel UHD Graphics P630 in Xeon processors, or Intel UHD Graphics 630 in Core processors.										
	Works along with discrete graphics to support multi-display, enables three rear display connectors (2 DP standard, 1 video port optional (Video port can be DP, HDMI, or USB-C)										
Discrete Graphics Offering		Graphics		Memory		Power		Connector		Max Qty	
		Quadro P400		2GB GDDR5		30W		3x miniDP		2	
		Quadro P620		2GB GDDR5		40W		4x miniDP		2	
		Quadro P1000		4GB GDDR5		50W		4x miniDP		2	
		Quadro P2200		5GB GDDR5X		75W		4x DP		2	
		Quadro RTX 4000		8GB GDDR6		160W		3x DP, 1x VirtualLink		1	
		Quadro RTX 5000		16GB GDDR6		265W		4x DP, 1x VirtualLink		1	
Notes: RTX 4000/RTX 5000/2x P2200 needs 500W PSU.											
Storage Controller	Storage Controller			Type	Interface	Disk Type		RAID			
	Onboard Intel RST SATA RAID			Std	SATA 6Gb/s	HDD or SSD		0/1/10/5			
	Onboard Intel RST PCIe RAID			Std	PCIe NVMe	M.2 PCIe SSD		0/1			
Notes: RAID 5 and 10 are available on 2.5" HDD/SSD.											

Components		Specification				
Storage Support	Disk Type	Interface	RPM	Offering	Max Qty	
	3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB/2TB/4TB/6TB	2	
	2.5" SATA HDD	SATA 6Gb/s	7.2K	1TB FIPS	4	
	2.5" SATA SSD	SATA 6Gb/s	-	512GB/1TB	4	
	M.2 PCIe SSD	PCIe NVMe	-	256GB/512GB/1TB/2TB	4	
Storage Bays	Bay 1	First 3.5" disk bay				
	Bay 2	First 2.5" SATA bay				
	Bay 3	Secondary 3.5" disk bay				
	Bay 4	Secondary 2.5" disk bay				
	Bay 5	9mm Slim ODD bay				
	Bay 6	Media reader				
M.2	4x M.2 SSD (2 onboard, 2 via PCIe to M.2 adapter)					
Media reader	Optional SD reader on most models					
Network interfaces	One onboard GbE port via integrated gigabit ethernet Intel i219LM, supports Wake-on-LAN. Optional PCIe ethernet adapters are available					
WLAN + Bluetooth	Optional Intel Wi-Fi 6 AX201, 2x2, 2.4GHz/5GHz (160MHz channels), Wi-Fi 6, Bluetooth 5					
Security features	Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Optional chassis intrusion switch, E-lock, cable lock, Kensington lock, and pad lock					
Intel vPro	Supports Intel vPro on Xeon and selected Core i7 or i5 models. vPro also requires AX201 if Wi-Fi function is needed					
Intel AMT	Intel Active Management Technology 14 on vPro models, Intel Standard Manageability on other models					
Base warranty	Most models comes with 3-year limited onsite service with 9x5/NBD. Other models may have 1 or 2-year limited onsite service					
HD Audio	Intel HD Audio interface with Realtek ALC623 Codec					
Front ports	2x USB-A 3.2 Gen 1. 2x USB-A 3.2 Gen 2. 1x USB-C 3.2 Gen 1. 1x Mic-in. 1x Combo jack					
Rear ports	2x USB-A 3.2 Gen 1. 2x USB-A 2.0. 1x RJ-45. 1x COM. 2x DP. 1x Audio line-out					
Optional rear ports	Supports the following via cable: 1x COM. 1x Parallel. 2x PS/2. 1x video (DP, HDMI, or USB-C). 2x USB 2.0. Supports the following via PCIe adapter: 4x COM*. 1x USB-C 3.2 Gen 2. 2x USB-A 3.2 Gen 1*. 1x Thunderbolt Notes: 4x COM and 2x USB-A 3.2 Gen 1 are special bids only.					
Temperature	Operating: 50 °F to 95 °F (10 °C to 35 °C) Non operating (no package): 14 °F to 140 °F (-10 °C to 60 °C) Non operating (with package): -40 °F to 140 °F (-40 °C to 60 °C)					
Altitude	Operating: -15.2 m (-50 ft) to 3048 m (10 000 ft). Storage: -15.2 m (-50 ft) to 10, 668 m (35 000 ft)					
Humidity	Operating: 30%~90%, non-condensing Storage (with package): 20%~90%, non-condensing					
Environmental certification	RoHS-compliant, EPEAT Silver rating, and ENERGY STAR 8 qualified					
Power supply	Supports one of the following: • 300W, 90% PSU, 100V - 240V, 80 PLUS Gold qualified • 500W, 92% PSU, 100V - 240V, 80 PLUS Platinum qualified					
ISV certifications	Please visit www.thinkworkstations.com/isv-certifications/					
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 Lenovo workstation PSREF developer						