

# ThinkStation P340 Tower 30DH00K1US

**Product**

ThinkStation P340 Tower

**Region**

NA

**Country/Region**

USA

**Machine Type**

30DH

**TopSeller**

TopSeller

**Processor**

Intel Core i9-10900K (10C / 20T, 3.7 / 5.3GHz, 20MB)

**Integrated Graphics**

Intel UHD Graphics 630

**Discrete Graphics**

NVIDIA Quadro P1000 4GB

**Chipset**

Intel W480

**HDD Controller**

Onboard Intel RST SATA RAID

**M.2 SSD RAID Controller**

Onboard Intel RSTe PCIe

**Memory**

1x 32GB UDIMM DDR4-2933 non-ECC

**Internal Disk Drive**

None

**M.2 SSD Drive**

1x 1TB SSD M.2 PCIe NVMe Opal

**Optane Memory**

None

**Optical**

9.0mm DVD±RW

**Media Reader**

SD Reader

**Onboard Ethernet**

1x GbE RJ-45

**Additional Ethernet**

None

**WLAN + Bluetooth**

None

**Optional Rear Ports**

None

**Chassis Intrusion Switch**

None

**Cover Lock**

None

**Cable Lock**

None

**Keyboard**

USB Traditional Keyboard, Black, English

**Mouse**

USB Calliope Mouse

**Power Supply**

500W 92%

**System Management**

Intel vPro with AMT 14

**Operating System**

Windows 10 Pro 64, English

**Bundled Software**

None

**Base Warranty**

3-year, Onsite

**Bundled Service**

3Y Premier Support Upgrade from 3Y Onsite (5WS0U26646)

**EAN / UPC / JAN**

195348323468

**End of Support**

2028-07-30

**Announce Date**

2020-09-02

**Notes:****California Electronic Waste Recycling Fee**

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to: <https://www.calrecycle.ca.gov/Electronics/Consumer>

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# 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: 20.68 lb (9.38 kg)																																																																																																																																																																																				
Processor Sockets	1x FCLGA1200																																																																																																																																																																																				
Processor Support	Up to one Xeon, Core i9, i7, i5, or i3 processor																																																																																																																																																																																				
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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	<table border="1"> <thead> <tr> <th>Graphics</th> <th>Memory</th> <th>Power</th> <th>Connector</th> <th>Max Qty</th> </tr> </thead> <tbody> <tr> <td>Quadro P400</td> <td>2GB GDDR5</td> <td>30W</td> <td>3x miniDP</td> <td>2</td> </tr> <tr> <td>Quadro P620</td> <td>2GB GDDR5</td> <td>40W</td> <td>4x miniDP</td> <td>2</td> </tr> <tr> <td>Quadro P1000</td> <td>4GB GDDR5</td> <td>50W</td> <td>4x miniDP</td> <td>2</td> </tr> <tr> <td>Quadro P2200</td> <td>5GB GDDR5X</td> <td>75W</td> <td>4x DP</td> <td>2</td> </tr> <tr> <td>Quadro RTX 4000</td> <td>8GB GDDR6</td> <td>160W</td> <td>3x DP, 1x VirtualLink</td> <td>1</td> </tr> <tr> <td>Quadro RTX 5000</td> <td>16GB GDDR6</td> <td>265W</td> <td>4x DP, 1x VirtualLink</td> <td>1</td> </tr> </tbody> </table>	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																																																																																																																																																	
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Notes: RTX 4000/RTX 5000/2x P2200 needs 500W PSU.																																																																																																																																																																																					
Storage Controller	<table border="1"> <thead> <tr> <th>Storage Controller</th> <th>Type</th> <th>Interface</th> <th>Disk Type</th> <th>RAID</th> </tr> </thead> <tbody> <tr> <td>Onboard Intel RST SATA RAID</td> <td>Std</td> <td>SATA 6Gb/s</td> <td>HDD or SSD</td> <td>0/1/10/5</td> </tr> <tr> <td>Onboard Intel RST PCIe RAID</td> <td>Std</td> <td>PCIe NVMe</td> <td>M.2 PCIe SSD</td> <td>0/1</td> </tr> </tbody> </table>	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																																																																																																																																																																					
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Notes: RAID 5 and 10 are available on 2.5" HDD/SSD.																																																																																																																																																																																					

Components	Specification																														
Storage Support	<table border="1"> <thead> <tr> <th>Disk Type</th> <th>Interface</th> <th>RPM</th> <th>Offering</th> <th>Max Qty</th> </tr> </thead> <tbody> <tr> <td>3.5" SATA HDD</td> <td>SATA 6Gb/s</td> <td>7.2K</td> <td>1TB/2TB/4TB/6TB</td> <td>2</td> </tr> <tr> <td>2.5" SATA HDD</td> <td>SATA 6Gb/s</td> <td>7.2K</td> <td>1TB FIPS</td> <td>4</td> </tr> <tr> <td>2.5" SATA SSD</td> <td>SATA 6Gb/s</td> <td>-</td> <td>512GB/1TB</td> <td>4</td> </tr> <tr> <td>M.2 PCIe SSD</td> <td>PCIe NVMe</td> <td>-</td> <td>256GB/512GB/1TB/2TB</td> <td>4</td> </tr> <tr> <td>Optane Memory</td> <td>PCIe NVMe</td> <td>-</td> <td>16GB</td> <td>1</td> </tr> </tbody> </table>	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	Optane Memory	PCIe NVMe	-	16GB	1
	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																											
Optane Memory	PCIe NVMe	-	16GB	1																											
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 <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 [Lenovo workstation PSREF developer](mailto:Lenovo_workstation_PSREF_developer)

# ThinkStation P340 Tower

