ThinkStation P340 Tower 30DH00H8GE

Product
ThinkStation P340 Tower

Region
WE

Country/Region
Germany

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 P2200 5GB

Chipset
Intel W480

HDD Controller
Onboard Intel RST SATA RAID

M.2 SSD RAID Controller
Onboard Intel RSTe PCIe

Memory
2x 16GB UDIMM DDR4-2933 non-ECC

Internal Disk Drive
None

M.2 SSD Drive
1x 512GB 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
Chassis Intrusion Switch

Cover Lock
E-Lock

Cable Lock
Cable Lock

Keyboard
USB Traditional Keyboard, Black, German

Mouse
USB Calliope Mouse

Power Supply
500W 92%

System Management
Intel vPro with AMT 14

Operating System
Windows 10 Pro 64, German

Bundled Software
None

Base Warranty
3-year, Onsite

Bundled Service
None

EAN / UPC / JAN
0195235617625

End of Support
2028-07-30

Announce Date
2020-07-17

Recommended Services

Best
5Y Premier Support Upgrade from 3Y Onsite (5WS0T36135)

Better
4Y Premier Support Upgrade from 3Y Onsite (5WS0T36136)

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

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ThinkStation P340 Tower Platform Specifications

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), WiFi 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

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