# ThinkStation P340 Tower 30DH00K4US

**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 RTX 5000 16GB

**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**
195348323567

**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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**https://psref.lenovo.com**
Visit psref website for the latest version of Product specifications Reference.

# 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: 20.68 lb (9.38 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 |

| Components | Specification |
|---|---|
| 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 | (see table below) |

| 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) |

| Components | Specification |
|---|---|
| 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:<br>• 300W, 90% PSU, 100V - 240V, 80 PLUS Gold qualified<br>• 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*