

# ThinkStation P340 Tower 30DH00GNGE

**Product**

ThinkStation P340 Tower

**Region**

WE

**Country/Region**

Germany

**Machine Type**

30DH

**TopSeller**

TopSeller

**Processor**

Intel Core i7-10700K (8C / 16T, 3.8 / 5.1GHz, 16MB)

**Integrated Graphics**

Intel UHD Graphics 630

**Discrete Graphics**

NVIDIA Quadro RTX 4000 8GB

**Chipset**

Intel W480

**HDD Controller**

Onboard Intel RST SATA RAID

**M.2 SSD RAID Controller**

Onboard Intel RSTe PCIe

**Memory**

2x 8GB 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**

0195235604984

**End of Support**

2028-07-30

**Announce Date**

2020-07-17

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**Recommended Services****Best**

5Y Premier Support Upgrade from 3Y Onsite (5WSOT36135)

**Better**

4Y Premier Support Upgrade from 3Y Onsite (5WSOT36136)

**Good**

3Y Premier Support Upgrade from 3Y Onsite (5WSOU26646)

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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                                                                                                                                 |                                                                                 |            |                |            |                       |              |         |                    |         |  |
| 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       |
|                             | 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:<br>1x COM, 1x Parallel, 2x PS/2, 1x video (DP, HDMI, or USB-C), 2x USB 2.0, Supports the following via PCIe adapter:<br>4x COM*, 1x USB-C 3.2 Gen 2, 2x USB-A 3.2 Gen 1*, 1x Thunderbolt<br>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)<br>Non operating (no package): 14 °F to 140 °F (-10 °C to 60 °C)<br>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).<br>Storage: -15.2 m (-50 ft) to 10, 668 m (35 000 ft)                                                                                                                                                                                  |                                                   |      |                     |         |
| Humidity                    | Operating: 30%~90%, non-condensing<br>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: <ul style="list-style-type: none"><li>• 300W, 90% PSU, 100V - 240V, 80 PLUS Gold qualified</li><li>• 500W, 92% PSU, 100V - 240V, 80 PLUS Platinum qualified</li></ul>                                                                                      |                                                   |      |                     |         |
| 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](#)

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