

# ThinkStation P620 30E0005TUS

**Product**

ThinkStation P620

**Region**

NA

**Country/Region**

USA

**Machine Type**

30E0

**TopSeller**

TopSeller

**Processor**

AMD Ryzen Threadripper PRO 3955WX (16C / 32T, 3.9 / 4.3GHz, 8MB L2 / 64MB L3)

**Discrete Graphics**

NVIDIA Quadro RTX 4000 8GB

**Chipset**

AMD WRX80

**Memory**

2x 16GB RDIMM DDR4-3200 ECC

**HDD Controller**

Integrated SATA controller

**M.2 SSD RAID Controller**

Integrated NVMe controller

**Internal Disk Drive**

None

**M.2 SSD Drive**

1x 1TB SSD M.2 2280 PCIe 3.0 NVMe Opal

**Optical**

9.0mm DVD±RW

**Card Reader**

15-in-1 Card Reader

**Onboard Ethernet**

1x 10GbE RJ-45

**Optional Ethernet**

None

**WLAN + Bluetooth**

None

**Optional Rear Ports**

None

**Chassis Intrusion Switch**

Chassis Intrusion Switch

**Cover Lock**

Lock Kit with Common Key

**Keyboard**

USB Traditional Keyboard, Black, English

**Mouse**

USB Calliope Mouse

**Power Supply**

1000W Platinum Fixed

**Diagnostic**

Front 4-Digit Diagnostic LED

**System Management**

AMD PRO

**Operating System**

Windows 10 Pro 64, English

**Bundled Software**

None

**Base Warranty**

3-year, Onsite

**Bundled Service**

3Y Premier Support Upgrade from 3Y Onsite (5WS0U26649)

**EAN / UPC / JAN**

195477073708

**End of Support**

2028-10-04

**Announce Date**

2020-10-20

**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 P620 Platform Specifications

Product Specifications Reference (PSREF)

|                                                 |                                                                                                                                                                                   |                                        |              |                     |              |         |              |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------|---------------------|--------------|---------|--------------|
| Form factor                                     | 33L Tower                                                                                                                                                                         |                                        |              |                     |              |         |              |
| Dimensions                                      | 165mm/6.5" W x 460mm/18.1" D x 446mm/17.6" H (with feet)                                                                                                                          |                                        |              |                     |              |         |              |
| Weight                                          | Maximum configuration: 52.91 lb (24kg)                                                                                                                                            |                                        |              |                     |              |         |              |
| Processor Support                               | Processor                                                                                                                                                                         | # of Cores                             | # of Threads | Base Frequency      | Cache        | TDP     | Memory Types |
|                                                 | AMD Ryzen Threadripper PRO 3995WX                                                                                                                                                 | 64                                     | 128          | 2.7GHz              | 256MB L3     | 280W    | DDR4-3200    |
|                                                 | AMD Ryzen Threadripper PRO 3975WX                                                                                                                                                 | 32                                     | 64           | 3.5GHz              | 128MB L3     | 280W    | DDR4-3200    |
|                                                 | AMD Ryzen Threadripper PRO 3955WX                                                                                                                                                 | 16                                     | 32           | 3.9GHz              | 64MB L3      | 280W    | DDR4-3200    |
|                                                 | AMD Ryzen Threadripper PRO 3945WX                                                                                                                                                 | 12                                     | 24           | 4.0GHz              | 64MB L3      | 280W    | DDR4-3200    |
| Processor Sockets                               | 1x Socket sWRX4                                                                                                                                                                   |                                        |              |                     |              |         |              |
| Chipset                                         | AMD WRX80                                                                                                                                                                         |                                        |              |                     |              |         |              |
| Memory Sockets                                  | 8 DIMM sockets with 8 channels                                                                                                                                                    |                                        |              |                     |              |         |              |
| Memory Types                                    | DDR4-3200 RDIMM ECC, 8GB / 16GB / 32GB / 64GB available                                                                                                                           |                                        |              |                     |              |         |              |
| Memory Capacity                                 | 512GB with 8 x 64GB DDR4-3200 RDIMMs                                                                                                                                              |                                        |              |                     |              |         |              |
| Memory Protection                               | ECC                                                                                                                                                                               |                                        |              |                     |              |         |              |
| Expansion slots                                 | Slot 1 (CPU)                                                                                                                                                                      | PCIe 4.0 x16, full height, full length |              |                     |              |         |              |
|                                                 | Slot 2 (CPU)                                                                                                                                                                      | PCIe 4.0 x8, full height, full length  |              |                     |              |         |              |
|                                                 | Slot 3 (CPU)                                                                                                                                                                      | PCIe 4.0 x16, full height, full length |              |                     |              |         |              |
|                                                 | Slot 4 (CPU)                                                                                                                                                                      | PCIe 4.0 x16, full height, full length |              |                     |              |         |              |
|                                                 | Slot 5 (CPU)                                                                                                                                                                      | PCIe 4.0 x16, full height, full length |              |                     |              |         |              |
|                                                 | Slot 6 (IOH)                                                                                                                                                                      | PCIe 4.0 x8, full height, full length  |              |                     |              |         |              |
| Discrete Graphics Offering                      | Graphics                                                                                                                                                                          | Memory                                 | Pow-er       | Connector           | SLI / NVlink | Max Qty |              |
|                                                 | Quadro P620                                                                                                                                                                       | 2GB GDDR5                              | 40W          | 4xminiDP            | -            | 4       |              |
|                                                 | Quadro P1000                                                                                                                                                                      | 4GB GDDR5                              | 50W          | 4xminiDP            | -            | 4       |              |
|                                                 | Quadro P2200                                                                                                                                                                      | 5GB GDDR5                              | 75W          | 4xDP                | -            | 4       |              |
|                                                 | Quadro RTX 4000                                                                                                                                                                   | 8GB GDDR6                              | 160W         | 3xDP, 1xVirtualLink | -            | 4       |              |
|                                                 | Quadro RTX 5000                                                                                                                                                                   | 16GB GDDR6                             | 265W         | 4xDP, 1xVirtualLink | NVLink       | 2       |              |
|                                                 | Quadro RTX 6000                                                                                                                                                                   | 24GB GDDR6                             | 295W         | 4xDP, 1xVirtualLink | NVLink       | 2       |              |
|                                                 | Quadro RTX 8000                                                                                                                                                                   | 48GB GDDR6                             | 295W         | 4xDP, 1xVirtualLink | NVLink       | 2       |              |
|                                                 | Quadro GV100                                                                                                                                                                      | 32GB HBM2                              | 250W         | 4xDP                | NVLink       | 2       |              |
| Storage Controller                              | Storage Controller                                                                                                                                                                | Type                                   | Interface    | RAID                | Cache        |         |              |
|                                                 | Integrated SATA controller                                                                                                                                                        | Std                                    | SATA 6Gb/s   | 0/1/10/5            | -            |         |              |
|                                                 | Integrated NVMe controller                                                                                                                                                        | Std                                    | PCIe NVMe    | 0/1/10/5            | -            |         |              |
| Storage Type                                    | Disk Type                                                                                                                                                                         | Interface                              | RPM          | Offering            |              |         |              |
|                                                 | 3.5" SATA HDD                                                                                                                                                                     | SATA 6Gb/s                             | 7.2K         | 1TB/2TB/4TB         |              |         |              |
|                                                 | M.2 PCIe SSD                                                                                                                                                                      | PCIe 3.0 NVMe                          | -            | 256GB/512GB/1TB/2TB |              |         |              |
|                                                 | M.2 PCIe SSD                                                                                                                                                                      | PCIe 4.0 NVMe*                         | -            | 256GB/512GB/1TB     |              |         |              |
| * M.2 PCIe 4.0 SSD is available later this year |                                                                                                                                                                                   |                                        |              |                     |              |         |              |
| Storage Support                                 | Up to 5x 3.5" SATA HDD:<br>• 4x 3.5" HDD bay<br>• 1x Flex Bay ( Front Access Storage Enclosure or 5.25" Slim ODD and HDD cage)                                                    |                                        |              |                     |              |         |              |
|                                                 | Up to 11x M.2 SSD:<br>• 2 via onboard M.2<br>• 8 via two quad M.2 to PCIe adapter (only supports PCIe 3.0 SSD)<br>• 1 via Single M.2 to PCIe adapter (only supports PCIe 3.0 SSD) |                                        |              |                     |              |         |              |
| Power supply                                    | One fixed 1000W, autosensing, 92%, 80 PLUS Platinum qualified                                                                                                                     |                                        |              |                     |              |         |              |
| Optical                                         | Optional one slim optical, DVD or DVD±RW                                                                                                                                          |                                        |              |                     |              |         |              |
| Media reader                                    | Optional UHS-II 15-in-1 USB 3.2 Gen 1 reader on flex module                                                                                                                       |                                        |              |                     |              |         |              |
| Network interfaces                              | Integrated one 10GbE ethernet (Marvell AQtion AQN-107). Optional PCIe ethernet or wireless adapters are available                                                                 |                                        |              |                     |              |         |              |
| WLAN + Bluetooth                                | Optional Intel Wireless-AC 9260, 2x2, 2.4GHz/5GHz, 802.11ac, Bluetooth 5.1                                                                                                        |                                        |              |                     |              |         |              |

|                              |                                                                                                                                                               |                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Security features            | Power-on and admin password. Trusted Platform Module, TCG 2.0 compliant. Chassis intrusion switch. Optional access panel lock, Kensington lock                |                                               |
| System Mgmt                  | AMD Pro Manageability                                                                                                                                         |                                               |
| Diagnostic                   | Front panel warning LED. Front 4-digit diagnostic. ThinkStation Diagnostics for Windows. Photo-audio transfer with Lenovo PC Diagnostics for Android and iOS. |                                               |
| Base warranty                | Most models comes with 3-year limited onsite service with 9x5/NBD                                                                                             |                                               |
| HD Audio                     | Realtek ALC4050H codec                                                                                                                                        |                                               |
| Front ports                  | 2x USB-A 3.2 Gen 2 (includes one 11W charging), 2x USB-C 3.2 Gen 2 (15W), 1x combo audio / microphone jack (3.5mm)                                            |                                               |
| Rear ports                   | 2x USB-A 2.0, 4x USB-A 3.2 Gen 2, 1x 10GbE RJ-45, 3x analog audio ports (line-in, line-out, mic-in), 2x PS/2                                                  |                                               |
| Optional ports               | Optional one COM port                                                                                                                                         |                                               |
| Environmental specification  | Temperature - operating                                                                                                                                       | 50 °F to 95 °F (10 °C to 35 °C)               |
|                              | Temperature - storage (no package)                                                                                                                            | 14 °F to 140 °F (-10 °C to 60 °C)             |
|                              | Temperature - storage (with package)                                                                                                                          | -40 °F to 140 °F (-40 °C to 60 °C)            |
|                              | Altitude - operating                                                                                                                                          | (Unpressurized): -50ft-10000ft (-15.2m-3048m) |
|                              | Humidity - operating                                                                                                                                          | 10%~80%, non-condensing                       |
|                              | Humidity - storage (with package)                                                                                                                             | 10%~90%, non-condensing                       |
| Environmental Certifications | RoHS-compliant. GREENGUARD. EPEAT Silver rating. ENERGY STAR 8.0 qualified                                                                                    |                                               |
| ISV certifications           | Please visit <a href="http://www.thinkworkstations.com/isv-certifications/">www.thinkworkstations.com/isv-certifications/</a>                                 |                                               |

Note: Depending on many factors, actual data transfer speed mentioned on this page may be lower than theoretical speed.

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