

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, 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: • 4x 3.5" HDD bay • 1x Flex Bay (Front Access Storage Enclosure or 5.25" Slim ODD and HDD cage) | | | | | | |
| | Up to 11x M.2 SSD: • 2 via onboard M.2 • 8 via two quad M.2 to PCIe adapter (only supports PCIe 3.0 SSD) • 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, and pad 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 www.thinkworkstations.com/isv-certifications/ | | | | | | |

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