

PERFORMANCE

Processor

Processor Family

Up to one AMD Ryzen™ Threadripper PRO processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
AMD Ryzen Threadripper PRO 3945WX	12	24	4.0GHz	4.3GHz	6MB L2 / 64MB L3	DDR4-Up to 3200	-
AMD Ryzen Threadripper PRO 3955WX	16	32	3.9GHz	4.3GHz	8MB L2 / 64MB L3	DDR4-Up to 3200	-
AMD Ryzen Threadripper PRO 3975WX	32	64	3.5GHz	4.2GHz	16MB L2 / 128MB L3	DDR4-Up to 3200	-
AMD Ryzen Threadripper PRO 3995WX	64	128	2.7GHz	4.2GHz	32MB L2 / 256MB L3	DDR4-Up to 3200	-

Processor Sockets

1x Socket sWRX4

Operating System

- Windows® 10 Pro 64
- Ubuntu Linux LTS
- No operating system

Graphics

Discrete Graphics Support

Supports up to two NVIDIA® Quadro® RTX 8000 with NVLink

Discrete Graphics Offering

Graphics	Memory	Power	Connector	SLI / NVlink
Quadro P620	2GB GDDR5	40W	4x miniDP	None
Quadro P1000	4GB GDDR5	50W	4x miniDP	None
Quadro P2200	5GB GDDR5	75W	4x DP	None
Quadro RTX 4000	8GB GDDR6	160W	3x DP, 1x VirtualLink	None
Quadro RTX 5000	16GB GDDR6	265W	4x DP, 1x VirtualLink	NVLink
Quadro RTX 6000	24GB GDDR6	295W	4x DP, 1x VirtualLink	NVLink
Quadro RTX 8000	48GB GDDR6	295W	4x DP, 1x VirtualLink	NVLink
Quadro GV100	32GB HBM2	250W	4x DP	NVLink
NVIDIA RTX A6000	48 GB GDDR6	300W	4x DP	None

Monitor Support

Supports multiple displays via discrete graphics

Chipset

AMD WRX80

Memory

Memory Type

DDR4-3200 RDIMM ECC

Memory Slots

8 DIMM sockets with 8 channels

Memory Protection

ThinkStation P620

ECC

Max Memory

Up to 1TB (with 8 x 128GB DDR4-3200 RDIMMs)

Notes:

- The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.

Storage

Storage Support

Up to 5x 3.5" SATA HDD + 9x M.2 SSD

- 3.5" HDD up to 4TB each
- M.2 SSD up to 2TB each

Storage Controllers

Storage Controller	Type	Interface	RAID	Cache
Integrated NVMe controller	Standard	PCIe NVMe	0/1/10/5	None
Integrated SATA controller	Standard	SATA 6.0Gb/s	0/1/10/5	None

Storage Type

Disk Type	Interface	RPM	Offering
M.2 PCIe SSD	PCIe 4.0 NVMe	-	256GB/512GB/1TB
M.2 PCIe SSD	PCIe 3.0 NVMe	-	256GB/512GB/1TB/2TB
3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB/2TB/4TB

Removable Storage

Optical Support

Optional one 9.0mm optical drive, DVD-ROM or DVD±RW

Card Reader

- 15-in-1 card reader
- No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC4050H codec

Power Supply

Power	Type	Efficiency	Key Features
1000W	Fixed	92%	Autosensing, 80 PLUS Platinum qualified

DESIGN

Mechanical

Form Factor

Tower (33L)

Dimensions (WxDxH)

165 x 460 x 446 mm (6.5 x 18.1 x 17.6 inches, with feet)

Weight

24 kg (52.91 lbs, maximum configuration)

Bays

- 2x 3.5" disk bay (standard)
- 3x 3.5" disk bay (optional):
2 bays come with 3rd disk or Storage Bay Upgrade Kit
1 bay via Flex bay

Flex Bays

1x Flex bay, supports one of the following:

- Front Access Storage Enclosure
- 5.25" Slim ODD and HDD cage

M.2 Slots

Up to 11x M.2 SSD:

- 2 via onboard slots
- 8 via Quad M.2 to PCIe adapters (only supports PCIe 3.0 SSD)
- 1 via Single M.2 to PCIe adapter (only supports PCIe 3.0 SSD)

Expansion Slots

- Four PCIe 4.0 x16
- Two PCIe 4.0 x8

Expansion Slots Offering

Slot 1: PCIe 4.0 x16, full height, full length, by CPU

Slot 2: PCIe 4.0 x8, full height, full length, by CPU

Slot 3: PCIe 4.0 x16, full height, full length, by CPU

Slot 4: PCIe 4.0 x16, full height, full length, by CPU

Slot 5: PCIe 4.0 x16, full height, full length, by CPU

Slot 6: PCIe 4.0 x8, full height, full length, by IOH

CONNECTIVITY

Network

Onboard Ethernet

10GbE Ethernet, Marvell AQtion AQN-107, 1x 10GbE RJ-45

Optional Ethernet

Additional Ethernet options via PCIe adapter

WLAN + Bluetooth™

- No WLAN and Bluetooth
- Intel® Wireless-AC 9260, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1

Ports

Front Ports

- 1x USB 3.2 Gen 2
- 1x USB 3.2 Gen 2 (Always On and fast charge)
- 2x USB-C 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)

Notes:

- The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.

USB 2.0: 480 Mbit/s;

USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;

USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;

USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

Thunderbolt™ 3: 40 Gbit/s;

FireWire 400: 400 Mbit/s;

FireWire 800: 800 Mbit/s;

Rear Ports

- 2x USB 2.0
- 4x USB 3.2 Gen 2
- 2x PS/2 ports (keyboard/mouse)
- 1x Ethernet (10GbE RJ-45)
- 1x microphone (3.5mm)
- 1x line-in (3.5mm)
- 1x line-out (3.5mm)

Notes:

- For video ports on discrete graphics, please see graphics section

Optional Rear Ports

1x serial

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

- (Optional) Access Panel Lock Kit with Common Key
- (Optional) Access Panel Lock Kit with Unique Key
- Kensington® Security Slot

Chassis Intrusion Switch

Chassis intrusion switch

BIOS Security

- Power-on password
- Administrator password

MANAGEABILITY

System Management

AMD Pro Manageability

Diagnostic

- Photo-audio transfer with Lenovo PC Diagnostics for Android and iOS
- ThinkStation® Diagnostics for Windows
- Front 4-digit diagnostic

SERVICE

Warranty

Base Warranty

3-year limited onsite service (with 9x5 NBD, for most models)

ENVIRONMENTAL

Environmental Specifications

Temperature

Operating: 10° C to 35° C (50° F to 95° F)

Storage: -40° C to 60° C (-40° F to 140° F) in original shipping carton

Storage: -10° C to 60° C (14° F to 140° F) without carton

Altitude

Operating: -15.2m to 3048m (-50ft to 10000ft)

Storage: -15.2m to 10668m (-50ft to 35000ft)

Humidity

Relative Humidity Operating: 10% to 80% (non-condensing)

Relative Humidity Storage/Transit: 10% to 90% (non-condensing)

Wet Bulb Temperature Operating: 25° C (77° F) max

Wet Bulb Temperature Non-operating: 40° C (104° F) max

CERTIFICATIONS

Green Certifications

- EPEAT™ Silver
- ENERGY STAR® 8.0 (On model 30E00006US)
- GREENGUARD®
- RoHS compliant

ISV Certifications

Please visit www.thinkworkstations.com/isv-certifications/

