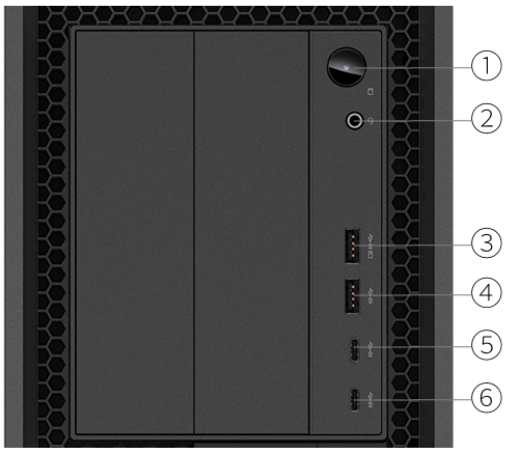
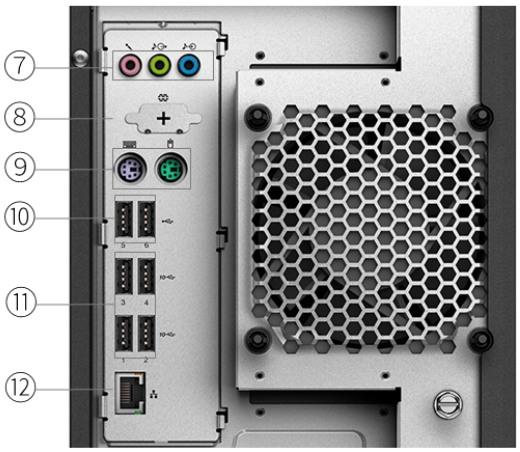
OVERVIEW





1. Power button	7. 3x Audio ports (3.5mm)
2. Headphone / microphone combo jack (3.5mm)	8. Serial *
3. USB 3.2 Gen 2	9. 2x PS/2 ports (keyboard / mouse)
4. USB 3.2 Gen 2	10. 2x USB 2.0
5. USB-C 3.2 Gen 2	11. 4x USB 3.2 Gen 2
6. USB-C 3.2 Gen 2	12. Ethernet (10GbE RJ-45)

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

Up to one 280W AMD Ryzen™ Threadripper PRO 5000 or 3000 Series Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support
AMD Ryzen™ Threadripper PRO 3945WX	12	24	4.0GHz	4.3GHz	6MB L2 / 64MB L3	DDR4-3200
AMD Ryzen™ Threadripper PRO 3955WX	16	32	3.9GHz	4.3GHz	8MB L2 / 64MB L3	DDR4-3200
AMD Ryzen™ Threadripper PRO 3975WX	32	64	3.5GHz	4.2GHz	16MB L2 / 128MB L3	DDR4-3200
AMD Ryzen™ Threadripper PRO 3995WX	64	128	2.7GHz	4.2GHz	32MB L2 / 256MB L3	DDR4-3200
AMD Ryzen™ Threadripper PRO 5945WX	12	24	4.1GHz	4.5GHz	6MB L2 / 64MB L3	DDR4-3200
AMD Ryzen™ Threadripper PRO 5955WX	16	32	4.0GHz	4.5GHz	8MB L2 / 64MB L3	DDR4-3200
AMD Ryzen™ Threadripper PRO 5965WX	24	48	3.8GHz	4.5GHz	12MB L2 / 128MB L3	DDR4-3200
AMD Ryzen™ Threadripper PRO 5975WX	32	64	3.6GHz	4.5GHz	16MB L2 / 128MB L3	DDR4-3200
AMD Ryzen™ Threadripper PRO 5995WX	64	128	2.7GHz	4.5GHz	32MB L2 / 256MB L3	DDR4-3200

Processor Sockets

1x sWRX8

AI (Artificial Intelligence)

AI PC Category[1]

AI-Ready Workstations

Notes:

[1] With scalable configurations of higher-performance CPUs and professional NVIDIA® RTX GPUs, in addition to advantage of the same modern AI PC technology, AI-Ready workstation power the demanding AI consumption & development workflows.

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 DG Windows® 10 Pro 64
- Windows® 10 Pro 64
- Ubuntu Linux LTS
- Ubuntu Linux with Data Science Preload
- Red Hat Enterprise Linux 8.5 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)
- No preload operating system

Graphics

Discrete Graphics Support

Supports up to two NVIDIA® RTX 5000 Ada Generation or one AMD Radeon™ PRO W7900

Discrete Graphics Offering***

Graphics	Memory	Power	Connector	Form Factor	SLI / NVLink

Quadro® RTX 8000	48GB GDDR6	295W	4x DP 1.4, 1x VirtualLink	Dual slot	NVLink
Quadro® RTX 6000	24GB GDDR6	295W	4x DP 1.4, 1x VirtualLink	Dual slot	NVLink
Quadro® RTX 5000	16GB GDDR6	265W	4x DP 1.4, 1x VirtualLink	Dual slot	NVLink
Quadro® RTX 4000	8GB GDDR6	160W	3x DP 1.4, 1x VirtualLink	Single slot	None
Quadro® P620	2GB GDDR5	40W	4x miniDP 1.4	Single slot	None
Quadro® P2200	5GB GDDR5	75W	4x DP 1.4	Single slot	None
Quadro® P1000	4GB GDDR5	50W	4x miniDP 1.4	Single slot	None
Quadro® GV100	32GB HBM2	250W	4x DP 1.4	Dual slot	NVLink
NVIDIA® T600	4GB GDDR6	40W	4x miniDP 1.4	Single slot	None
NVIDIA® RTX 5000 Ada Generation	32GB GDDR6 with ECC	250W	4x DP 1.4a	Dual slot	-
NVIDIA® RTX 4000 Ada Generation	20GB GDDR6 with ECC	130W	4x DP 1.4a	Single slot	-
NVIDIA® RTX 2000 Ada Generation	16GB GDDR6 with ECC	70W	4x miniDP 1.4a	Dual slot	None
NVIDIA® T1000 8GB	8GB GDDR6	50W	4x miniDP 1.4	Single slot	None
NVIDIA® T1000	4GB GDDR6	50W	4x miniDP 1.4	Single slot	None
NVIDIA® T400 4GB	4GB GDDR6	40W	3x miniDP 1.4	Single slot	None
NVIDIA® RTX A5500	24GB GDDR6 with ECC	230W	4x DP 1.4a	Dual slot	NVLink
NVIDIA® RTX A5000	24GB GDDR6 with ECC	230W	4x DP 1.4a	Dual slot	NVLink
NVIDIA® RTX A4500	20GB GDDR6 with ECC	200W	4x DP 1.4	Dual slot	NVLink
NVIDIA® RTX A4000	16GB GDDR6 with ECC	140W	4x DP 1.4a	Single slot	None
NVIDIA® RTX A2000 12GB	12GB GDDR6	70W	4x miniDP 1.4a	Dual slot	None
AMD Radeon™ Pro WX 3200	4GB GDDR5	50W	4x miniDP 1.4	Single slot	-
AMD Radeon™ Pro W5700	8GB GDDR6	205W	5x miniDP 1.4, 1x USB-C®	Dual slot	-
AMD Radeon™ Pro W5500	8GB GDDR6	125W	4x DP 1.4	Single slot	-
AMD Radeon™ Pro VII	16GB HBM2	250W	6x DP 1.4	Dual slot	-
AMD Radeon™ PRO W7900	48GB GDDR6 with ECC	295W	3x DP 2.1, 1x miniDP 2.1	Triple slot	-
AMD Radeon™ PRO W7600	8GB GDDR6	130W	4x DP 2.1	Single slot	-
AMD Radeon™ PRO W6800	32GB GDDR6 with ECC	250W	6x miniDP 1.4a	Dual slot	-
AMD Radeon™ PRO W6600	8GB GDDR6	130W	4x DP 1.4	Single slot	-
AMD Radeon™ PRO W6400	4GB GDDR6	50W	2x DP 1.4	Single slot	-

Monitor Support

Monitor Support

Supports multiple displays via discrete graphics, the number of maximum monitors supported depends on the graphic card in use

Chipset

Chipset

AMD WRX80 chipset

Memory

Max Memory[1]

Up to 1TB (8x 128GB RDIMM)

Memory Type

DDR4-3200 RDIMM ECC, maximum transfer speeds of up to 3200 MT/s

Memory Slots

8 DDR4 DIMM slots, 8 channels capable

Memory Protection

ECC

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Max Storage Support[1]

Up to 5x 3.5" SATA HDD + 11x M.2 SSD
• 3.5" HDD up to 4TB each
• Onboard M.2 SSD up to 4TB each
• M.2 SSD by M.2 to PCIe® adapter up to 2TB

Storage Type***[2]

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

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

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[2] 4TB M.2 SSD is for onboard M.2 slots only.

Removable Storage

Optical Support

Optional one 9.0mm optical drive, DVD-ROM, DVD±RW, and Blu-ray

Card Reader

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

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC4050H codec

Speakers

Single speaker

Power Supply

Power Supply

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

DESIGN

Mechanical[1]

Form Factor

Tower (33L)

Dimensions (WxDxH)[2]

165 x 455x 446 mm (6.5 x 17.9 x 17.6 inches)

Weight[3]

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® Gen 4 (PCIe® 4.0 x4) adapter or Quad M.2 to PCIe® Gen 3 (PCIe® 3.0 x4) adapter
• 1 via Single M.2 to PCIe® adapter (only supports PCIe® 3.0 SSD)

Expansion Slots

Supports 6 PCIe® slots with 4x PCIe® 4.0 x16 slots plus 2x PCIe® 4.0 x8 slots.
• Slot 1: PCIe® 4.0 x16, full height, full length, 75W, double-width, by CPU
• Slot 2: PCIe® 4.0 x8, full height, full length, 25W, by CPU
• Slot 3: PCIe® 4.0 x16, full height, full length, 75W, double-width, by CPU
• Slot 4: PCIe® 4.0 x16, full height, full length, 75W, by CPU
• Slot 5: PCIe® 4.0 x16, full height, full length, 75W, by CPU
• Slot 6: PCIe® 4.0 x8, full height, full length, 25W, by IOH

EOU

Tool-less design for side cover, memory, 3.5″ HDD, optical, PCIe® card assembly / removal

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Notes:

[1] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
PCIe® 3.0 (x1 / x2 / x4 / x8 / x16): 1 GB/s (8 Gbps) / 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps);
PCIe® 4.0 (x1 / x2 / x4 / x8 / x16): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps) / 32 GB/s (256 Gbps);
PCIe® 5.0 (x1 / x2 / x4 / x8 / x16): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps) / 32 GB/s (256 Gbps) / 64 GB/s (512 Gbps).

[2] The system dimensions may vary depending on configurations.

[3] The system weight is approximate and based on results in Lenovo® lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

CONNECTIVITY

Network

WLAN + Bluetooth®**[1]

- Intel® Wireless-AC 9260, Wi-Fi® 5, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth® 5.1
- Intel® Wi-Fi® 6E AX210, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3
- No WLAN and Bluetooth®

Onboard Ethernet

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

Optional Ethernet

One additional Ethernet adapter support, up to two additional 10 GbE ports
• Gigabit Ethernet, Intel® I350-T4, 4x RJ-45, PCIe® x4
• Gigabit Ethernet, Broadcom BCM5719, 4x RJ-45, PCIe® x4
• Gigabit Ethernet, Broadcom BCM5720, 2x RJ-45, PCIe® x1
• 10 Gigabit Ethernet, Intel® X550-T2, 2x RJ-45, PCIe® x4
• 10 Gigabit Ethernet, Intel® X710-T2L, 2x RJ-45, PCIe® x8
• 10 Gigabit Ethernet, Intel® X710-DA2, 2x SFP+, PCIe® x8
• 10 Gigabit Ethernet, Marvell AQtion AQN-107, 1x RJ-45, PCIe® x4

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

Ports[1]

Front Ports

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

Optional Front Ports

1x USB-C® 3.2 Gen 1 (support data transfer, with flex module)

Rear Ports

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

Optional Rear Ports***

- 1x Thunderbolt™ 3
- 2x USB-C® 3.2 Gen 2 (support data transfer, via 2-port USB-C® expansion card, PCIe® x4)
- 1x serial

Notes:

[1] 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;
USB4® 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
USB4® 40Gbps (USB 40Gbps): 40 Gbit/s;
Thunderbolt™ 3/4: 40 Gbit/s.
Thunderbolt™ 5: 80 Gbit/s (bidirectional), up to 120 Gbit/s in bandwidth boost mode for video-intensive applications.

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

Physical Locks

- (Optional) Access panel lock kit with common key
- (Optional) Access panel lock kit with unique key
- Kensington® Security Slot™, 3 x 7 mm

Chassis Intrusion Switch

Chassis intrusion switch

BIOS Security

- Administrator password
- Power-on password

MANAGEABILITY

System Management

System Management

AMD PRO Manageability

Diagnostic

Diagnostic

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

SERVICE

Warranty[1]

Base Warranty

3-year limited onsite service

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to https://smartfind.lenovo.com/. To learn more details of warranty policy, please access https://support.lenovo.com/warrantylookup/warrantypolicy.

OPERATING REQUIREMENTS

Operating Environment

Temperature

- Operating: 10°C (50°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

Altitude

- Operating: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 ft) to 12192 m (40,000 ft)

Relative Humidity

- Operating: 20% to 80%
- Storage: 10% to 90%

CERTIFICATIONS

Green Certifications[1]

Green Certifications

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

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit https://compliance.lenovo.com.

ISV Certifications

ISV Certifications

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

- Feature with ** means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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