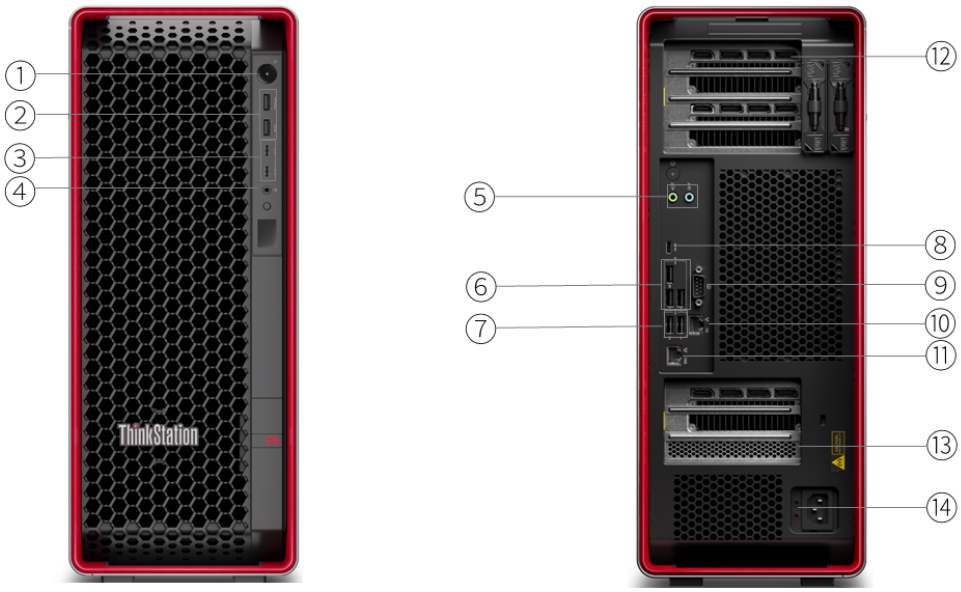
OVERVIEW



1. Power button	8. USB-C (USB 20Gbps / USB 3.2 Gen 2x2)
2. 2x USB-A (USB 10Gbps) *	9. Serial (9-pin) *
3. 2x USB-C (USB 10Gbps), data transfer only *	10. Ethernet (GbE RJ-45)
4. Headphone jack (3.5mm)	11. Ethernet (10GbE RJ-45)
5. 2x Audio ports (line-out and line-in)	12. Upper PCIe slots (slots 1-4)
6. 3x USB-A (USB 10Gbps)	13. Lower PCIe slots (slots 5-7)
7. 2x USB-A (Hi-Speed USB)	14. Power supply

Notes:

- Items with * are only available on selected models
- Expansion cards are optional. More ports are available through the optional expansion cards

PERFORMANCE

Processor

Processor Family

Up to one AMD Ryzen™ Threadripper PRO 9000 or 7000 WX Series processor, supports up to 96 cores; up to 5.4GHz; up to 350W TDP

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support
AMD Ryzen™ Threadripper PRO 7945WX	12	24	4.7GHz	5.3GHz	12MB L2 / 64MB L3	DDR5-5200
AMD Ryzen™ Threadripper PRO 7955WX	16	32	4.5GHz	5.3GHz	16MB L2 / 64MB L3	DDR5-5200
AMD Ryzen™ Threadripper PRO 7965WX	24	48	4.2GHz	5.3GHz	24MB L2 / 128MB L3	DDR5-5200
AMD Ryzen™ Threadripper PRO 7975WX	32	64	4.0GHz	5.3GHz	32MB L2 / 128MB L3	DDR5-5200
AMD Ryzen™ Threadripper PRO 7985WX	64	128	3.2GHz	5.1GHz	64MB L2 / 256MB L3	DDR5-5200
AMD Ryzen™ Threadripper PRO 7995WX	96	192	2.5GHz	5.1GHz	96MB L2 / 384MB L3	DDR5-5200
AMD Ryzen™ Threadripper PRO 9945WX	12	24	4.7GHz	5.4GHz	12MB L2 / 64MB L3	DDR5-6400
AMD Ryzen™ Threadripper PRO 9955WX	16	32	4.5GHz	5.4GHz	16MB L2 / 64MB L3	DDR5-6400
AMD Ryzen™ Threadripper PRO 9965WX	24	48	4.2GHz	5.4GHz	24MB L2 / 128MB L3	DDR5-6400
AMD Ryzen™ Threadripper PRO 9975WX	32	64	4.0GHz	5.4GHz	32MB L2 / 128MB L3	DDR5-6400
AMD Ryzen™ Threadripper PRO 9985WX	64	128	3.2GHz	5.4GHz	64MB L2 / 256MB L3	DDR5-6400
AMD Ryzen™ Threadripper PRO 9995WX	96	192	2.5GHz	5.4GHz	96MB L2 / 384MB L3	DDR5-6400

Processor Sockets

1x sTR5

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
- Ubuntu Linux LTS
- No preload operating system

Graphics

Discrete Graphics Support[1]

- Supports up to three NVIDIA® RTX 6000 Ada Generation
- Supports up to three NVIDIA® RTX PRO 6000 Blackwell Max-Q Workstation Edition (300W); or up to one NVIDIA® RTX PRO 6000 Blackwell Workstation Edition (600W)

Discrete Graphics Offering[***]

Graphics	Memory	Power	Connector	Form Factor	SLI / NVLink
NVIDIA® RTX PRO 6000 Blackwell Workstation Edition	96GB GDDR7 with ECC	600W	4x DP 2.1	Dual slot	-
NVIDIA® RTX PRO 6000 Blackwell Max-Q Workstation Edition	96GB GDDR7 with ECC	300W	4x DP 2.1	Dual slot	-
NVIDIA® RTX PRO 5000 Blackwell	48GB GDDR7 with ECC	300W	4x DP 2.1	Dual slot	-
NVIDIA® RTX PRO 4500 Blackwell	32GB GDDR7 with ECC	200W	4x DP 2.1	Dual slot	-
NVIDIA® RTX PRO 4000 Blackwell	24GB GDDR7 with ECC	140W	4x DP 2.1	Single slot	-
NVIDIA® RTX PRO 2000 Blackwell	16GB GDDR7 with ECC	70W	4x miniDP 2.1	Dual slot	-
NVIDIA® RTX A6000[2]	48GB GDDR6 with ECC	300W	4x DP 1.4a	Dual slot	NVLink
NVIDIA® RTX A4000	16GB GDDR6 with ECC	140W	4x DP 1.4a	Single slot	None
NVIDIA® RTX A400	4GB GDDR6	50W	4x miniDP 1.4a	Single slot	None
NVIDIA® RTX A2000 12GB	12GB GDDR6	70W	4x miniDP 1.4a	Dual slot	None
NVIDIA® RTX A1000	8GB GDDR6	50W	4x miniDP 1.4a	Single slot	None
NVIDIA® RTX 6000 Ada Generation[3]	48GB GDDR6 with ECC	300W	4x DP 1.4a	Dual slot	-
NVIDIA® RTX 5000 Ada Generation	32GB GDDR6 with ECC	250W	4x DP 1.4a	Dual slot	-
NVIDIA® RTX 4500 Ada Generation	24GB GDDR6 with ECC	210W	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® T400 4GB	4GB GDDR6	40W	3x miniDP 1.4	Single slot	None
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 W6400	4GB GDDR6	50W	2x DP 1.4	Single slot	-

Notes:

[1] Blackwell GPUs are already supported, and the exact orderability timeframe is under confirmation and may be slightly later.

[2], [3] Available in specific countries and regions.

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 WRX90 chipset

Memory

Max Memory[1]

Up to 1TB (8x 128GB RDIMM)

Memory Type**

- DDR5-4800 3DS-RDIMM ECC, maximum transfer speeds of up to 4800 MT/s
- DDR5-4800 RDIMM ECC, maximum transfer speeds of up to 4800 MT/s
- DDR5-6400 RDIMM ECC, maximum transfer speeds of up to 6400 MT/s

Memory Slots

8 DDR5 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 7 drives (HDD maximum, 3x 3.5" HDD + 4x M.2 SSD);
or 8 drives (M.2 SSD maximum, 8x M.2 SSD);
or 6 drives (U.3 SSD maximum, 2x U.3 SSD + 4x M.2 SSD)
• 3.5" HDD up to 12TB each
• M.2 SSD up to 4TB each
• U.3 SSD up to 15.36TB each

Storage Type***

Disk Type	Interface	RPM	Offering	Security
3.5" SATA HDD	SATA 6Gb/s	7.2K	2TB / 6TB / 12TB	-
M.2 2280 SSD for Onboard / HDD Bay / Front access M.2	PCIe® NVMe®, PCIe® 4.0 x4 Performance	-	512GB / 1TB / 2TB / 4TB	Opal 2.0
U.3 2.5" 15mm SSD for HDD Bay	PCIe® NVMe®, PCIe® 4.0	-	15.36TB	Opal 2.0

Storage Controllers

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

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.

Removable Storage

Card Reader

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

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC897-Q codec

Speakers

Single speaker

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
1000W	Fixed	92%	Autosensing, 80 PLUS Platinum qualified
1400W	Fixed	92%	Autosensing, 80 PLUS Platinum qualified

DESIGN

Mechanical[1]

Form Factor

Tower (39L) or 4U rack, optional rack rail kit needed

Dimensions (WxDxH)[2]

175 x 508 x 434.4 mm (6.9 x 20 x 17.1 inches, with feet)

Weight[3]

22.7 kg (50.0 lbs, maximum configuration)

Bays

Three internal disk bays plus one front access M.2 bay:
• Bay 1 supports one 3.5″ HDD, standard, optional support for two M.2 SSD or one U.3 SSD
• Bay 2 supports one 3.5″ HDD, standard, optional support for two M.2 SSD or one U.3 SSD
• Bay 3 supports one 3.5″ HDD, optional
• Front access M.2 bay supports one M.2 SSD, optional

M.2 Slots

Up to 8x M.2 SSD slots:
• 3 via onboard slots, PCIe® 4.0 x4
• 4 via HDD bay, PCIe® 4.0 x4
• 1 via front access M.2 bay, PCIe® 4.0 x4

Expansion Slots

Supports 7 PCIe® slots with 6x PCIe® 5.0 slots and 1x PCIe® 4.0 slot.
• Slot 1: PCIe® 5.0 x16, full height, full length, 75W, double-width
• Slot 2: PCIe® 5.0 x8, full height, full length, 25W
• Slot 3: PCIe® 5.0 x16, full height, full length, 75W, double-width
• Slot 4: PCIe® 5.0 x8, full height, full length, 25W
• Slot 5: PCIe® 5.0 x16, full height, full length, 75W, double-width
• Slot 6: PCIe® 5.0 x16, full height, full length, 75W
• Slot 7: PCIe® 4.0 x8, full height, half length, 25W

EOU

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

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]

- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3
- No WLAN and Bluetooth®

Onboard Ethernet

Two Ethernet, GbE + 10GbE, Realtek® RTL8111EP and Marvell AQtion AQC-113, 2x RJ-45, supports Wake-on-LAN

Optional Ethernet

One additional Ethernet adapter support, up to four additional 25GbE ports
• Gigabit Ethernet, Intel® I350-T2, 2x RJ-45, PCIe® x4
• 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
• 25 Gigabit Ethernet, NVIDIA® Mellanox ConnectX-6, 2x SFP28, PCIe® x8

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

1x headphone / microphone combo jack (3.5mm)

Optional Front Ports

- 2x USB-C® (USB 10Gbps / USB 3.2 Gen 2), data transfer only
- 2x USB-A (USB 10Gbps / USB 3.2 Gen 2), one Always On

Rear Ports

- 1x USB-C® (USB 20Gbps / USB 3.2 Gen 2x2), data transfer only
- 2x USB-A (Hi-Speed USB / USB 2.0)
- 3x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 1x Ethernet (10GbE RJ-45)
- 1x Ethernet (GbE RJ-45)
- 1x line-in (3.5mm)
- 1x line-out (3.5mm)

Optional Rear Ports

- 1x serial (via cable)
- 2x PS/2 (via cable)

Notes:

[1] The transfer speed of the 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 the theoretical speed.

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™, 3 x 7 mm

Chassis Intrusion Switch

Chassis intrusion switch

BIOS Security

- Administrator password
- Power-on password
- Self-healing BIOS
- UEFI Secure Boot

MANAGEABILITY

System Management

System Management

- (Optional) Aspeed AST2600 graphics / management processor, IPMI 2.0-compliant baseboard management controller (BMC)
- AMD PRO Manageability

Diagnostic

Diagnostic

- ThinkStation® Diagnostics
- Front diagnostic panel with QR code

SERVICE

Warranty[1]

Base Warranty**

- 1-year limited onsite service
- 2-year limited onsite service
- 3-year limited onsite service
- No base warranty

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%

ENVIRONMENTAL

Sustainability

Material[1]

- 65% PCC ABS bezel
- 95% PCC ABS wired USB keyboard/mouse top/bottom cover
- 90% PIC recycled plastic EPE cushion
- 30% OBP used in bag
- FSC certified paper in packaging

Notes:

[1] PCC: Post Consumer Content, recycled materials from customers.
PIC: Post Industry Content, recycled materials from internal factories.
EPE: Expanded Polyethylene.
OBP: Ocean Bound Plastic, reducing plastic spill into the sea.
FSC: Forest Stewardship Council.

CERTIFICATIONS

Green Certifications[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- (Optional) TCO Certified 9.0
- 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.

[2] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

ISV Certifications

ISV Certifications

Please visit ISV certifications for Lenovo® Workstations

- 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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