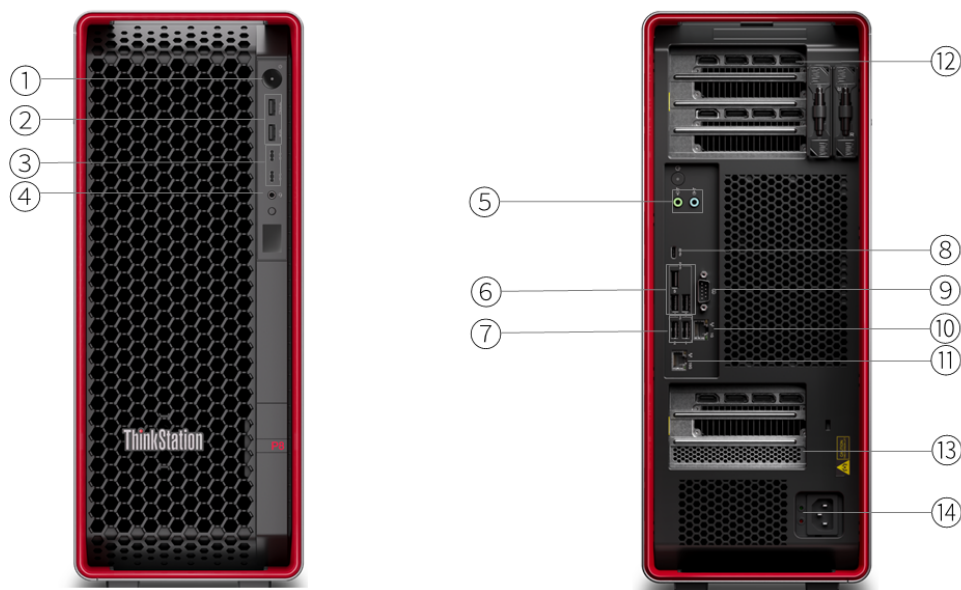


OVERVIEW



|  |   |
|--|---|
| 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 (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 350W AMD Ryzen™ Threadripper PRO 7000 WX Series processor, supports up to 96 cores; up to 5.3GHz; 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      |

Processor Sockets

1x sTR5

Operating System

Operating System\*\*

- Windows® 11 Pro
- Windows® 11 DG Windows® 10 Pro 64
- No preload operating system

Graphics

Discrete Graphics Support<sup>[1]</sup>

Supports up to three NVIDIA® RTX 6000 Ada Generation

Discrete Graphics Offering\*\*\*

| Graphics                                       | Memory              | Power | Connector                | Form Factor | SLI / NVLink |
|--|---------------------|-------|--------------------------|-------------|--------------|
| NVIDIA® T400 4GB                               | 4GB GDDR6           | 40W   | 3x miniDP 1.4            | Single slot | None         |
| NVIDIA® T1000 8GB                              | 8GB GDDR6           | 50W   | 4x miniDP 1.4            | Single slot | None         |
| NVIDIA® RTX A4000                              | 16GB GDDR6 with ECC | 140W  | 4x DP 1.4a               | Single slot | None         |
| NVIDIA® RTX A6000 <sup>[2]</sup>               | 48GB GDDR6 with ECC | 300W  | 4x DP 1.4a               | Dual slot   | NVLink       |
| NVIDIA® RTX 4000 Ada Generation <sup>[3]</sup> | 20GB GDDR6 with ECC | 130W  | 4x DP 1.4a               | Single slot | -            |
| NVIDIA® RTX 4500 Ada Generation <sup>[4]</sup> | 24GB GDDR6 with ECC | 210W  | 4x DP 1.4a               | Dual slot   | -            |
| NVIDIA® RTX 5000 Ada Generation                | 32GB GDDR6 with ECC | 250W  | 4x DP 1.4a               | Dual slot   | -            |
| NVIDIA® RTX 6000 Ada Generation <sup>[5]</sup> | 48GB GDDR6 with ECC | 300W  | 4x DP 1.4a               | Dual slot   | -            |
| AMD Radeon™ PRO W6400                          | 4GB GDDR6           | 50W   | 2x DP 1.4                | Single slot | -            |
| AMD Radeon™ PRO W7600                          | 8GB GDDR6           | 130W  | 4x DP 2.1                | Single slot | -            |
| AMD Radeon™ PRO W7900                          | 48GB GDDR6 with ECC | 295W  | 3x DP 2.1, 1x miniDP 2.1 | Triple slot | -            |

Notes:

[1] Discrete graphics support may vary by configurations such as processor selection or power supply wattage.

[2], [5] Available in specific countries and regions.

[3], [4] Available after March 2024.

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<sup>[1]</sup>

Up to 1TB (8x 128GB 3DS-RDIMM)

Memory Type\*\*

- DDR5-4800 3DS-RDIMM ECC
- DDR5-4800 RDIMM ECC

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

Storage Support<sup>[1][2]</sup>

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    | Cache |
|-----------------------------|----------|--------------|-------|
| Integrated NVMe® controller | Standard | PCIe® NVMe®  | None  |
| Integrated SATA controller  | Standard | SATA 6.0Gb/s | None  |

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.  
[2] For detailed storage bays information and how to upgrade optional drives for ThinkStation® products, please visit [ThinkStation® Storage Upgrade Guide](#)

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

Form Factor

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

Dimensions (WxDxH)<sup>[1]</sup>

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

Weight<sup>[2]</sup>

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<sup>[3]</sup>

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

Notes:

- <sup>[1]</sup> The system dimensions may vary depending on configurations.
- <sup>[2]</sup> 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.
- <sup>[3]</sup> Onboard M.2 slots for ThinkStation® P8 are PCIe® 5.0 compatible, and currently Lenovo® provides M.2 PCIe® 4.0 SSD.

CONNECTIVITY

Network

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

### WLAN + Bluetooth®

- AMD Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3<sup>[1]</sup>
- No WLAN and Bluetooth®

#### Notes:

<sup>[1]</sup> Wi-Fi® 6E full features might be limited by country-level restrictions.

Wi-Fi® 6E is only enabled on Windows® 11 and operates as Wi-Fi® 6 with Windows® 10.

6GHz Wi-Fi® 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi® 6E, and the regional regulatory certifications & spectrum allocation.

Bluetooth® 5.3 operation requires Windows® 11. For more information please visit [General Bluetooth® Support Information on Microsoft®](#).

### Ports<sup>[1]</sup>

#### 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<sup>[2]</sup>

- 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:

<sup>[1]</sup> 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.

<sup>[2]</sup> For video ports on discrete graphics, please see graphics section.

## 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
- UEFI Secure Boot
- Self-healing BIOS

## MANAGEABILITY

### System Management

#### System Management

AMD PRO Manageability

### Diagnostic

#### Diagnostic

- ThinkStation® Diagnostics
- Front diagnostic panel with QR code

## SERVICE

### Warranty<sup>[1]</sup>

#### 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://pcsupport.lenovo.com/warranty>.

## 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<sup>[1]</sup>

#### Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered<sup>[2]</sup>
- (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](https://epeat.net) for registration status by country.

## ISV Certifications

### ISV Certifications

Please visit [ISV certifications for Lenovo® Workstations](#)

- Feature with \*\* means that only one offering listed under the feature is configured on selected models.
- Feature with \*\*\* means that one or more offerings listed under the feature could be configured on selected models.
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