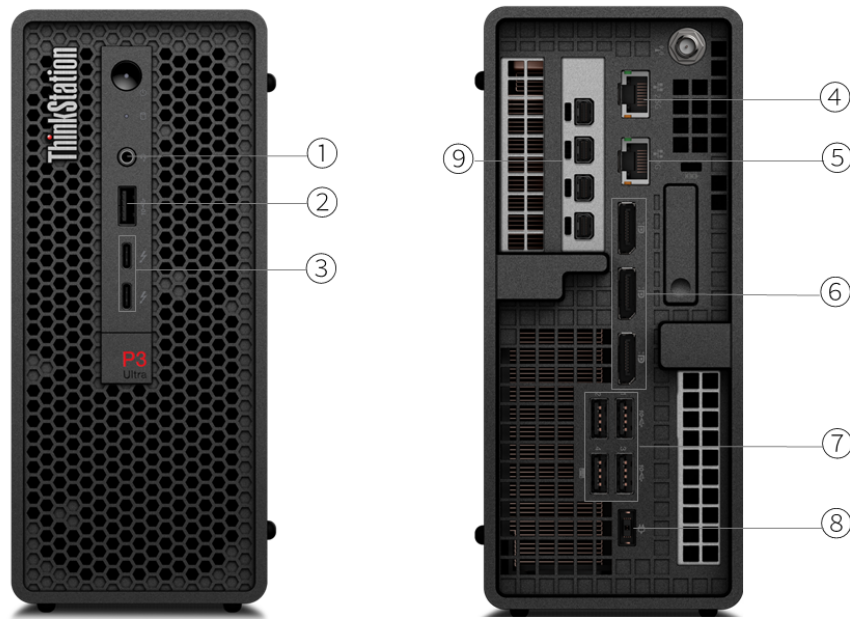


## OVERVIEW



1. Headphone (3.5mm)	6. 3x DisplayPort
2. USB-A (USB 10Gbps)	7. 4x USB-A (USB 10Gbps)
3. 2x Thunderbolt 4	8. Power connector
4. Ethernet (2.5GbE RJ-45)	9. Optional ports on expansion cards *
5. Ethernet (GbE RJ-45)	

Notes:

- Items with \* are only available on selected models

## PERFORMANCE

### Processor

#### Processor Family

Up to one 12th Gen Intel® Core™ i5 / i7 / i9 processor or 13th Gen Intel Core i3 / i5 / i7 / i9 processor, supports up to 24 cores, up to 5.8GHz

#### Processor\*\*[1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i5-12500	6 (6 P-core + 0 E-core)	12	P-core 3.0GHz	P-core 4.6GHz	18MB	DDR5-4800	Intel UHD Graphics 770
Core i7-12700	12 (8 P-core + 4 E-core)	20	P-core 2.1GHz / E-core 1.6GHz	Max Turbo up to 4.9GHz / P-core 4.8GHz / E-core 3.6GHz	25MB	DDR5-4800	Intel UHD Graphics 770
Core i9-12900	16 (8 P-core + 8 E-core)	24	P-core 2.4GHz / E-core 1.8GHz	Max Turbo up to 5.1GHz / P-core 5.0GHz / E-core 3.8GHz	30MB	DDR5-4800	Intel UHD Graphics 770
Core i3-13100	4 (4 P-core + 0 E-core)	8	P-core 3.4GHz	P-core 4.5GHz	12MB	DDR5-4800	Intel UHD Graphics 730
Core i5-13400T	10 (6 P-core + 4 E-core)	16	P-core 1.3GHz / E-core 1.0GHz	P-core 4.4GHz / E-core 3.0GHz	20MB	DDR5-4800	Intel UHD Graphics 730
Core i5-13600	14 (6 P-core + 8 E-core)	20	P-core 2.7GHz / E-core 2.0GHz	P-core 5.0GHz / E-core 3.7GHz	24MB	DDR5-4800	Intel UHD Graphics 770
Core i5-13600K	14 (6 P-core + 8 E-core)	20	P-core 3.5GHz / E-core 2.6GHz	P-core 5.1GHz / E-core 3.9GHz	24MB	DDR5-5600	Intel UHD Graphics 770
Core i7-13700	16 (8 P-core + 8 E-core)	24	P-core 2.1GHz / E-core 1.5GHz	Max Turbo up to 5.2GHz / P-core 5.1GHz / E-core 4.1GHz	30MB	DDR5-5600	Intel UHD Graphics 770
Core i7-13700K	16 (8 P-core + 8 E-core)	24	P-core 3.4GHz / E-core 2.5GHz	Max Turbo up to 5.4GHz / P-core 5.3GHz / E-core 4.2GHz	30MB	DDR5-5600	Intel UHD Graphics 770
Core i7-13700T	16 (8 P-core + 8 E-core)	24	P-core 1.4GHz / E-core 1.0GHz	Max Turbo up to 4.9GHz / P-core 4.8GHz / E-core 3.6GHz	30MB	DDR5-5600	Intel UHD Graphics 770
Core i9-13900	24 (8 P-core + 16 E-core)	32	P-core 2.0GHz / E-core 1.5GHz	Max Turbo up to 5.6GHz / P-core 5.2GHz / E-core 4.2GHz	36MB	DDR5-5600	Intel UHD Graphics 770
Core i9-13900K	24 (8 P-core + 16 E-core)	32	P-core 3.0GHz / E-core 2.2GHz	Max Turbo up to 5.8GHz / P-core 5.4GHz / E-core 4.3GHz	36MB	DDR5-5600	Intel UHD Graphics 770
Core i9-13900T	24 (8 P-core + 16 E-core)	32	P-core 1.1GHz / E-core 0.8GHz	Max Turbo up to 5.3GHz / P-core 5.1GHz / E-core 3.9GHz	36MB	DDR5-5600	Intel UHD Graphics 770

#### Processor Sockets

1x FCLGA1700

Notes:

[1] Intel Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see

<http://www.intel.com/technology/turboboost/> for more information.

### Operating System

#### Operating System\*\*

- Red Hat Enterprise Linux 9.2 (certified only, for detailed and latest information, please visit [Red Hat Certified Hardware](#))
- Ubuntu Linux LTS
- Windows® 11 DG Windows 10 Pro 64

- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

## Graphics

### Integrated Graphics\*\*

- Intel UHD Graphics 730
- Intel UHD Graphics 770

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

Supports up to one NVIDIA® RTX A5500 Laptop GPU

### 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 A2000 12GB	12GB GDDR6	70W	4x miniDP 1.4a	Dual slot	None
NVIDIA RTX A3000 Laptop GPU	12GB GDDR6	80W	4x miniDP 1.4a	MXM Card	None
NVIDIA RTX A5000 Laptop GPU	16GB GDDR6	115W	4x miniDP 1.4a	MXM Card	None
NVIDIA RTX A5500 Laptop GPU	16GB GDDR6 with ECC	115W	4x miniDP 1.4a	MXM Card	None
NVIDIA RTX 4000 SFF Ada Generation	20GB GDDR6 with ECC	70W	4x miniDP 1.4a	Dual slot	None

Notes:

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

## Monitor Support

### Monitor Support

Supports up to 8 independent displays, 4 via onboard ports (3x DP and 2x Thunderbolt™, simultaneously supports 4 display) and 4 via discrete graphics.

Onboard ports support (with max simultaneous displays):

- DP supports up to 4096x2160@60Hz
- Thunderbolt supports up to 5120x2880@60Hz

Discrete graphics ports support (with max simultaneous displays):

- miniDP supports up to 4096x2160@120Hz (RTX A2000)

## Chipset

### Chipset

Intel W680 chipset

## Memory

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

Up to 128GB (4x 32GB DDR5 SO-DIMM)

### Memory Type\*\*

- DDR5-4800 SO-DIMM ECC<sup>[2]</sup>
- DDR5-4800 SO-DIMM non-ECC<sup>[3]</sup>

### Memory Slots

Four DDR5 SO-DIMM slots, dual-channel capable

### Memory Protection

ECC on models with ECC DIMMs and ECC capable processor

Notes:

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

[2], [3] System comes with DDR5-4800 memory and will run at lower speed due to platform limitations:

4x 32GB configuration runs at DDR5-3600;

other configurations run at DDR5-4000.

## Storage

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

Up to 1x 2.5" HDD or SSD + 2x M.2 SSD

- 2.5" HDD up to 1TB
- 2.5" SSD up to 7.68TB
- M.2 SSD up to 4TB each

### Storage Type<sup>\*\*\*</sup>

Disk Type	Interface	RPM	Offering	Security
2.5" SATA SSD	SATA 6Gb/s	-	3.84TB / 7.68TB	Opal
2.5" SATA HDD	SATA 6Gb/s	7.2K	1TB / 1TB FIPS	-
M.2 2280 SSD for Onboard M.2 slots	PCIe <sup>®</sup> NVMe <sup>®</sup> , PCIe 4.0 x4	-	256GB	Opal
M.2 2280 SSD for Onboard M.2 slots	PCIe NVMe, PCIe 4.0 x4 Performance	-	256GB / 512GB / 1TB / 2TB / 4TB	Opal 2.0

### Storage Controllers

Storage Controller	Type	Interface	RAID	Cache
Integrated NVMe controller	Standard	PCIe NVMe	0/1	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<sup>®</sup> products, please visit [ThinkStation Storage Upgrade Guide](#)

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek<sup>®</sup> ALC897-Q codec

### Speakers

Single speaker

## Power Supply

### Power Supply<sup>\*\*</sup>

Power	Type	Efficiency	Key Features
170W	Adapter	90%	100V - 240V
230W	Adapter	90%	100V - 240V
300W	Adapter	90%	100V - 240V

## DESIGN

## Mechanical

### Form Factor

Mini-tower (3.9L)

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

87 x 223 x 202 mm (3.43 x 8.78 x 7.95 inches)

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

3.6 kg (7.94 lbs, maximum configuration)

### Bays

1x 2.5" disk bay (optional, comes with disk)

### M.2 Slots

- Two M.2 PCIe Gen 4x4 slots (for SSD)

- One M.2 slot (for WLAN)

### Expansion Slots

Two PCIe slots with one PCIe 4.0 x16 and one PCIe 3.0 x8.

- Slot 1: PCIe 4.0 x16 (via MXM to PCIe riser card), low profile, 75W, double-width
- Slot 2: PCIe 3.0 x8 (x4 lanes), low profile, 25W

Notes:

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

[2] 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

#### Onboard Ethernet

Two Ethernet, 2.5GbE + GbE, Intel Ethernet Connection I225-LM and I210-AT, 2x RJ-45, supports Wake-on-LAN

#### Optional Ethernet

One additional Ethernet adapter support, up to four additional GbE ports

- Gigabit Ethernet, Intel I350-T2, 2x RJ-45, PCIe x4
- Gigabit Ethernet, Broadcom BCM5719, 4x RJ-45, PCIe x4
- Gigabit Ethernet, Broadcom BCM5720, 2x RJ-45, PCIe x1

#### WLAN + Bluetooth®

- Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1 (Bluetooth 5.3 hardware ready), Intel vPro® technology support<sup>[1]</sup>
- No WLAN and Bluetooth

Notes:

[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations. Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

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

#### Front Ports

- 2x Thunderbolt 4
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 1x headphone / microphone combo jack (3.5mm)

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

- 3x DisplayPort™ 1.2
- 1x Ethernet (2.5GbE RJ-45)
- 1x Ethernet (GbE RJ-45)
- 4x USB-A (USB 10Gbps / USB 3.2 Gen 2)

#### Optional Rear Ports

- 1x USB-C® (USB 20Gbps / USB 3.2 Gen 2x2), support data transfer, via USB-C PCIe x4 card
- 2x USB-C (USB 10Gbps / USB 3.2 Gen 2), support data transfer, via additional PCIe adapter
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), via additional PCIe adapter
- 4x serial (via 4-port serial expansion card, PCIe x1)

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.

[2] For video ports on discrete graphics, please see graphics section.

## SECURITY & PRIVACY

### Security

#### Security Chip

# ThinkStation P3 Ultra

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

## Physical Locks

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<sup>[1]</sup>

- Intel vPro Enterprise with Intel AMT 16
- Non-vPro

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Notes:

[1] Intel vPro offers a superset of DASH's defined capabilities.

## 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

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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>.

## ENVIRONMENTAL

### 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)

#### 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>

- RoHS compliant
- TCO Certified 9.0

#### Notes:

- [1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.
- [2] EPEAT is registered where applicable, please see <https://www.epeat.net> for registration status by country.

## Other Certifications

### Mil-Spec Test

MIL-STD-810H military test passed

## 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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