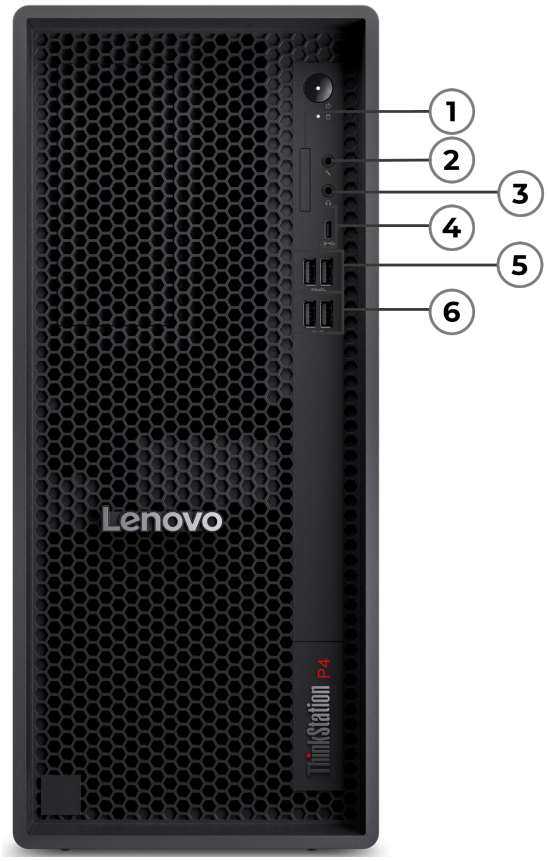
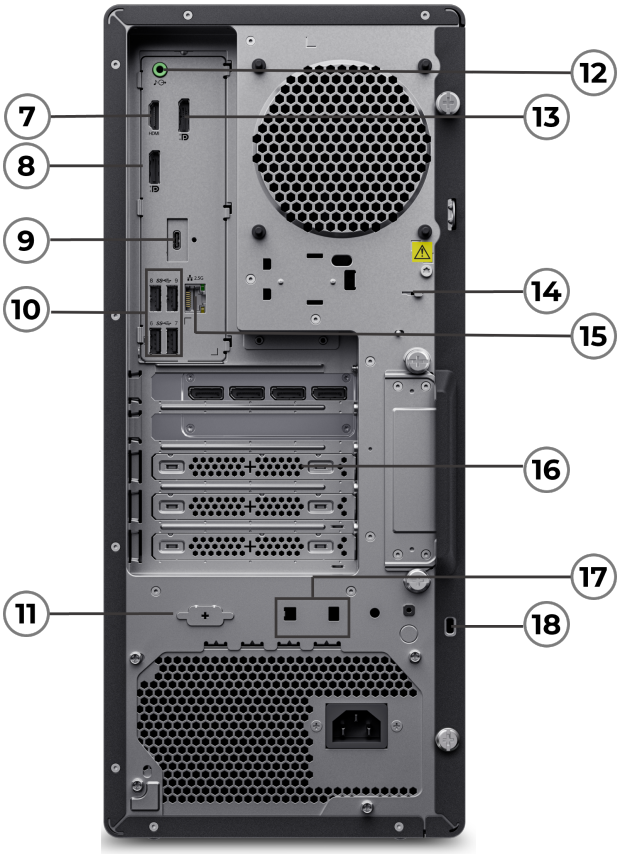
OVERVIEW





1. SD card reader	10. 4x USB-A (USB 5Gbps)
2. Microphone (3.5mm)	11. Serial
3. Headphone / microphone combo jack (3.5mm)	12. Audio-out (3.5mm)
4. USB-C (USB 20Gbps)	13. DisplayPort (up to 4K/120Hz)
5. 2x USB-A (USB 5Gbps)	14. E-lock
6. 2x USB-A (USB 10Gbps)	15. 2.5GbE Ethernet (RJ-45)
7. HDMI (up to 4K/100Hz)	16. Optional parts on expansion cards
8. DisplayPort (up to 8K/60Hz)	17. Cable lock slot
9. Flex IO (shown as USB-C in the image)	18. Kensington Security Slot

PERFORMANCE

Processor

Processor Family

Up to one AMD Ryzen™ 5 / 7 / 9 PRO 9000 Series processor, supports up to 16 cores; up to 5.5GHz; up to 170W TDP

Processor[**]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
AMD Ryzen™ 5 PRO 9655	6	12	3.9GHz	5.4GHz	6MB L2 / 32MB L3	AMD Radeon™ Graphics
AMD Ryzen™ 7 PRO 9745	8	16	3.8GHz	5.4GHz	8MB L2 / 32MB L3	AMD Radeon™ Graphics
AMD Ryzen™ 7 PRO 9755	8	16	3.8GHz	5.4GHz	8MB L2 / 32MB L3	AMD Radeon™ Graphics
AMD Ryzen™ 7 PRO 9755X3D	8	16	4.7GHz	5.2GHz	8MB L2 / 96MB L3	AMD Radeon™ Graphics
AMD Ryzen™ 9 PRO 9955	12	24	3.4GHz	5.4GHz	12MB L2 / 64MB L3	AMD Radeon™ Graphics
AMD Ryzen™ 9 PRO 9965	16	32	4.3GHz	5.5GHz	16MB L2 / 64MB L3	AMD Radeon™ Graphics
AMD Ryzen™ 9 PRO 9965X3D	16	32	4.3GHz	5.5GHz	16MB L2 / 128MB L3	AMD Radeon™ Graphics

Processor Sockets

1x AM5

AI (Artificial Intelligence)

AI PC Category

AI-Ready Workstations

Operating System

Operating System

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Ubuntu Linux LTS
- Red Hat Enterprise Linux 10.2 (certified only, for detailed and latest information, please visit Red Hat Certified Hardware)

Graphics

Integrated Graphics

Integrated AMD Radeon™ Graphics for models with Ryzen™ PRO 9000 Series processors

Discrete Graphics Support[1]

Supports up to one NVIDIA® RTX PRO 6000 Blackwell Workstation Edition; or up to two NVIDIA® RTX A1000

Discrete Graphics Offering

Graphics	Memory	Power	Connector	Form Factor
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 72GB GDDR7	72GB GDDR7 with ECC	300W	4x DP 2.1	Dual slot
NVIDIA® RTX PRO 5000 Blackwell 48GB GDDR7	48GB GDDR7 with	300W	4x DP 2.1	Dual slot

	ECC			
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 A1000	8GB GDDR6	50W	4x miniDP 1.4a	Single slot
NVIDIA® RTX A400	4GB GDDR6	50W	4x miniDP 1.4a	Single slot

Notes:

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

Monitor Support

Monitor Support

Supports up to 12 independent displays:
• 3 by onboard ports: 2x DP, 1x HDMI®, standard
• 1 by Flex IO port: one of DP / HDMI® / USB-C® / VGA, optional
• 8 by two discrete graphics, optional

Chipset

Chipset

AMD PRO 675 chipset

Memory

Max Memory[1]

Up to 256GB (4x 64GB DDR5 CUDIMM)

Memory Type**[2]

- DDR5-5600 UDIMM, ECC, 16GB / 32GB DIMMs, with a maximum supported data rate of 5600 MT/s
- DDR5-5600 UDIMM, non-ECC, 8GB / 16GB / 32GB / 48GB DIMMs, with a maximum data rate of 5600 MT/s
- DDR5-6400 CUDIMM, non-ECC, 64GB DIMM, with a maximum supported data rate of 5600 MT/s

Memory Slots

Four DDR5 UDIMM / CUDIMM slots, dual-channel capable

Memory Protection

ECC on models with ECC DIMMs

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.
[2] System comes with DDR5-6400 CUDIMM or DDR5-5600 UDIMM memory and will run at lower speed due to platform limitations:
- 1x 8GB / 1x 16GB / 1x 32GB / 1x 48GB / 2x 8GB / 2x 16GB / 2x 32GB / 1x 48GB UDIMM Non-ECC configurations run at 5600 MT/s.
- 4x 8GB / 4x 16GB / 4x 32GB / 4x 48GB UDIMM Non-ECC configurations run at 3600 MT/s.
- 1x 64GB / 2x 64GB CUDIMM Non-ECC configurations run at 5600 MT/s
- 4x 64GB CUDIMM Non-ECC configuration runs at 3200 MT/s.
- 1x 16GB / 2x 16GB UDIMM ECC configurations run at 5600 MT/s
- 4x 16GB UDIMM ECC configuration runs at 3600 MT/s.
- 1x 32GB / 2x 32GB UDIMM ECC configurations run at 5200 MT/s
- 4x 32GB UDIMM ECC configuration runs at 3600 MT/s.

Storage

Max Storage Support[1][2]

Up to six storage drives total:
• Up to 3x 3.5″ HDD, up to 12TB each
• Up to 3x M.2 SSD in total, including:

- Up to 3x M.2 Gen 5 Performance SSD, up to 4TB each
- Up to 3x M.2 Gen 4 SSD, up to 1TB each[3]

Storage Type***

Disk Type	Interface	RPM	Offering
M.2 2280 SSD for Onboard Gen 5 / Gen 4 slots	PCIe® NVMe®, PCIe® 4.0 x4	-	256GB / 512GB / 1TB
M.2 2280 SSD for Onboard Gen 5 / Gen 4 slots	PCIe® NVMe®, PCIe® 5.0 x4 Performance[4]	-	512GB / 1TB / 2TB / 4TB
3.5" SATA Enterprise HDD	SATA 6Gb/s	7.2K	2TB / 4TB / 6TB / 12TB
3.5" SATA Client HDD	SATA 6Gb/s	5.4K	2TB
3.5" SATA Client HDD	SATA 6Gb/s	7.2K	2TB

Storage Controllers***

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

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[2] For certain post-manufacturing storage upgrades, additional upgrade kits may be required.
[3], [4] Gen 5 SSD on M.2 PCIe® 4.0 slot will run on PCIe® 4.0 protocols.
[5] 2TB client HDD cannot be configured into a RAID array due to platform RAID driver limitations

Removable Storage

Optical Support

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

Card Reader

- SD card reader
- No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC623 codec

Speakers

Single speaker, 1.5W x1

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
500W	Fixed	92%	Autosensing, 80 PLUS Platinum qualified
750W	Fixed	92%	Autosensing, 80 PLUS Platinum qualified
1100W	Fixed	92%	Autosensing, 80 PLUS Platinum qualified

DESIGN

Mechanical

Form Factor

Tower (29.9L)

Dimensions (WxDxH)[1]

180 x 401.5 x 415 mm (7.09 x 15.81 x 16.34 inches)

Weight[2]

Starting at 8.75 kg (19.29 lbs)

Cooler**[3]

- Entry Air Cooling
- Standard Air Cooling
- Advanced Liquid Cooling

Bays

Three internal disk bays:
• Bay 1: Supports one 3.5″ HDD (standard)
• Bay 2: Supports one 3.5″ HDD (standard)
• Bay 3: Supports one of the following options (mutually exclusive):
  – One 3.5″ HDD
  – One Front Access HDD Bay
  – One slim ODD bay

M.2 Slots

• Up to 3x M.2 slots for M.2 SSD:
  – 2 onboard M.2 PCIe® 5.0 slots
  – 1 onboard M.2 PCIe® 4.0 slot
• One M.2 slot (for WLAN)

Expansion Slots

Supports 4 PCIe® slots.
• Slot 1: PCIe® 5.0 x16, full height, full length, 75W, double-width, by CPU
• Slot 2: PCIe® 4.0 x1, full height, half length, 25W, by chipset
• Slot 3: PCIe® 4.0 x1, full height, half length, 25W, by chipset
• Slot 4: PCIe® 4.0 x16 (x4 lanes), full height, half length, 75W, by chipset

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.
[3] Cooling options vary by processor:
Entry Air: Ryzen™ 7 PRO 9745;
Standard Air: Ryzen™ 5 PRO 9655 / Ryzen™ 7 PRO 9745 / 9755 / Ryzen™ 9 PRO 9955;
Advanced Liquid: Ryzen™ 5 PRO 9655 / Ryzen™ 7 PRO 9755 / 9755X3D / Ryzen™ 9 PRO 9955 / 9965 / 9965X3D.

CONNECTIVITY

Network

WLAN + Bluetooth®[1]

- MediaTek Wi-Fi® 7 MT7925, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4
- No WLAN and Bluetooth®

Onboard Ethernet

2.5 Gigabit Ethernet, Realtek® RTL8125BP-CG, 1x RJ-45, supports Wake-on-LAN

Optional Ethernet

Supports up to two additional Ethernet adapters: up to two 2.5GbE ports or one 25GbE port:
• Gigabit Ethernet, Intel® I210-T1, 1x RJ-45, PCIe® x1, up to two
• Gigabit Ethernet, Intel® I350-T4, 4x RJ-45, PCIe® x4, up to one
• 2.5 Gigabit Ethernet, Realtek® RTL8125BGS, 1x RJ-45, PCIe® x1, up to two
• 10 Gigabit Ethernet, Intel® E610-XT2, 2x 10GbE RJ-45, PCIe® x4, up to one
• 25 Gigabit Ethernet, Intel® E810-XXVDA2, 2x SFP28, PCIe® x8, up to one

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 USB-C® (USB 20Gbps / USB 3.2 Gen 2x2)
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 2x USB-A (USB 10Gbps / USB 3.2 Gen 2)

- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

Optional Front Ports

1x SD card reader

Rear Ports

- 4x USB-A (USB 5Gbps / USB 3.2 Gen 1), one supports Smart Power On
- 1x HDMI® 2.1, up to 4K/100Hz or 8K/30Hz
- 1x DisplayPort™ 1.4, up to 4K/120Hz or 8K/30Hz
- 1x DisplayPort™ 2.0, up to 4K/144Hz or 8K/60Hz
- 1x Ethernet (2.5GbE RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports

- 1x USB-C® (USB 5Gbps / USB 3.2 Gen 1), with DisplayPort™ 4K/60Hz (Flex IO)
- 1x HDMI® 2.1, up to 4K/60Hz (Flex IO)
- 1x HDMI® 2.1, up to 8K/60Hz (Flex IO)
- 1x DP 1.2 (Flex IO)
- 1x VGA (Flex IO)
- 1x parallel (via cable and PCIe® bracket)
- 1x USB-C® (USB 20Gbps / USB 3.2 Gen 2x2), support data transfer, via PCIe® x4 card
- 2x USB-A (Hi-Speed USB / USB 2.0), via cable and PCIe® bracket
- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), via additional PCIe® x1 adapter
- 1x serial (via cable)
- 4x serial (via 4-port serial expansion card, PCIe® x1)

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

Physical Locks

- (Optional) Cable lock
- (Optional) E-lock
- Kensington® Security Slot™, 3 x 7 mm
- Padlock Loop

Chassis Intrusion Switch

- Chassis intrusion switch
- No chassis intrusion switch

BIOS Security

- Administrator password
- UEFI Secure Boot
- Power-on password
- Self-healing BIOS
- More BIOS security features, please visit BIOS Simulator

MANAGEABILITY

System Management

System Management

AMD PRO Manageability

Diagnostic

Diagnostic

Lenovo® Diagnostics for Windows®

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]

• 95% PCC ABS bezel
• 95% PCC ABS wired USB keyboard/mouse top/bottom cover
• 16% recycled SGCC metal chassis
• 90% PCC 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® 9.0
- (Optional) EPEAT 2.0 Gold Registered[2]
- (Optional) TCO Certified 10
- 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 2.0 Gold applies to configurations without HDD.

Other Certifications

Mil-Spec Test

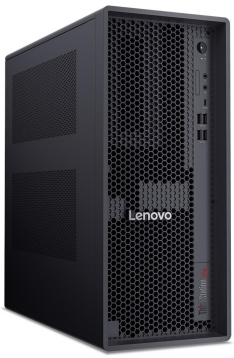
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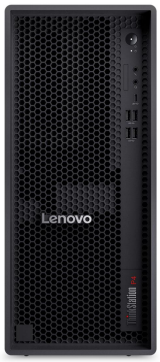
ISV Certifications

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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