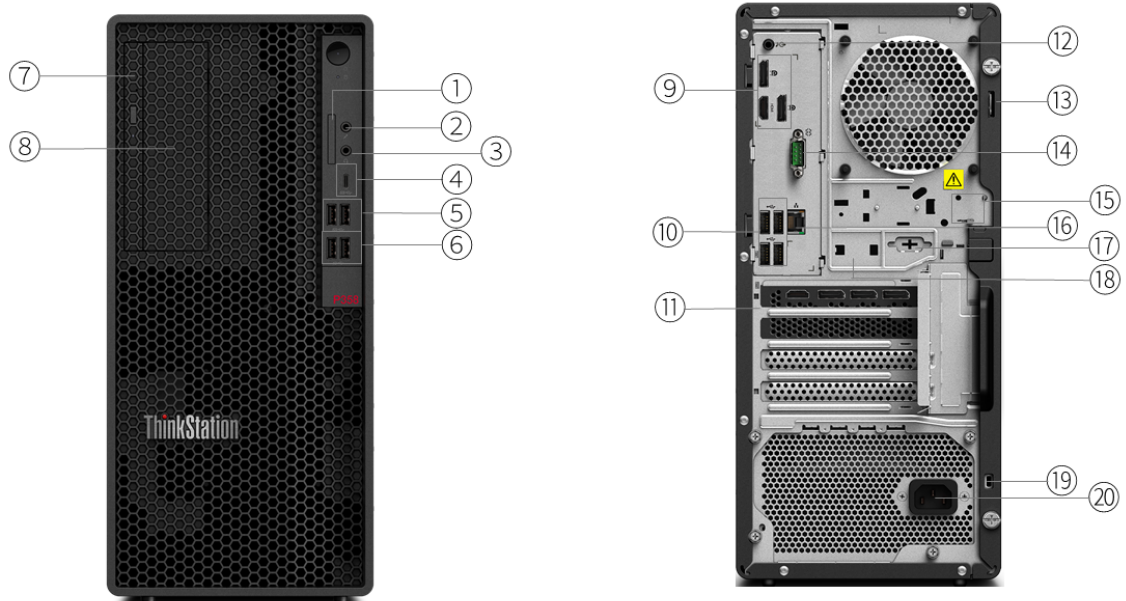


OVERVIEW



1. Card reader *	11. Optional ports on expansion cards *
2. Microphone (3.5mm)	12. Audio line-out (3.5mm)
3. Headphone / microphone combo jack (3.5mm)	13. Padlock loop
4. USB-C 3.2 Gen 1	14. Serial (9-pin)
5. 2x USB 3.2 Gen 1	15. E-lock slot *
6. 2x USB 3.2 Gen 2	16. Ethernet (RJ-45)
7. Optical drive *	17. Serial (9-pin) *
8. Flex bay *	18. Smart cable clip slots
9. Video ports (2x DP, 1x HDMI)	19. Kensington Security Slot
10. 4x USB 2.0 (with Smart Power On feature)	20. Power connector

Notes:

- Ports with * are only available on selected models

PERFORMANCE

Processor

Processor Family

Up to one 65W AMD Ryzen™ 9 Pro 5000 series processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
AMD Ryzen 3 Pro 4350G	4	8	3.8GHz	4.0GHz	2MB L2 / 4MB L3	DDR4-3200	AMD Radeon™ Graphics
AMD Ryzen 5 Pro 5645	6	12	3.7GHz	4.6GHz	3MB L2 / 32MB L3	DDR4-3200	None
AMD Ryzen 7 Pro 5845	8	16	3.4GHz	4.6GHz	4MB L2 / 32MB L3	DDR4-3200	None
AMD Ryzen 9 Pro 5945	12	24	3.0GHz	4.7GHz	6MB L2 / 64MB L3	DDR4-3200	None

Processor Sockets

Socket AM4

Operating System

Operating System**

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 Home 64 Single Language
- Windows 11 DG Windows 10 Pro 64
- Ubuntu Linux
- Red Hat Enterprise Linux (certified only)
- No operating system

Graphics

Integrated Graphics

- None
- Integrated AMD Radeon Graphics

Discrete Graphics Support

Supports up to one NVIDIA® GeForce RTX™ 3080 or NVIDIA RTX A2000

Discrete Graphics Offering

Graphics	Memory	Power	Connector	SLI / NVlink
NVIDIA T400 4GB	4GB GDDR6	40W	3x miniDP 1.4	None
NVIDIA T1000 8GB	8GB GDDR6	50W	4x miniDP 1.4	None
NVIDIA RTX A2000 12GB	12GB GDDR6	70W	4x miniDP 1.4a	None
NVIDIA GeForce RTX 3060	12GB GDDR6	170W	3x DP 1.4a, 1x HDMI® 2.1 FRL	-
NVIDIA GeForce RTX 3070 Ti	8GB GDDR6	290W	3x DP 1.4a, 1x HDMI 2.1 FRL	-
NVIDIA GeForce RTX 3080	10GB GDDR6	320W	3x DP 1.4a, 1x HDMI 2.1 FRL	-

Monitor Support

Monitor Support

- Models with Ryzen 3 Pro 4350G: no discrete graphic support. Onboard graphics supports up to 3 independent displays via onboard two DP, one HDMI:
 - DP supports up to 4096x2160@60Hz
 - HDMI supports up to 3840x2160@30Hz
- Models with Ryzen Pro 5000 processor: onboard video ports cannot work. Independent displays support depends on the discrete graphic card in use. Discrete graphics ports support:
 - miniDP supports up to 5120x2880@60Hz

- HDMI supports up to 7680x4320@60Hz

Chipset

Chipset

AMD PRO 565 chipset

Memory

Max Memory^[1]

Up to 128GB DDR4-3200

Memory Type**

- DDR4-3200 UDIMM non-ECC
- DDR4-3200 UDIMM ECC

Memory Slots

Four DDR4 UDIMM 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. The system may support more memory as the technology develops.

Storage

Storage Support^[1]

Up to 2x 3.5" SATA HDD + 1x 2.5" SATA HDD / SSD + 1x M.2 SSD

- 3.5" HDD up to 4TB each
- M.2 SSD up to 2TB
- No pre-configured 2.5" HDD / SSD options

Storage Type^[2]

Disk Type	Interface	RPM	Offering	Security
3.5" SATA HDD	SATA 6Gb/s	7.2K	1TB / 2TB / 4TB	-
M.2 2280 SSD	PCIe® NVMe®, PCIe 4.0 x4 Performance	-	512GB / 1TB / 2TB	Opal2
M.2 2280 SSD	PCIe NVMe, PCIe 4.0 x4 Value	-	256GB	Opal2

Storage Controllers***

Storage Controller	Type	Interface	RAID	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. The system may support larger storage as the technology develops.
2. System comes with one M.2 PCIe Gen 3 slot for M.2 SSD.

Removable Storage

Optical Support

Optional one 9.0mm DVD-ROM

Card Reader

- SD card reader
- No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC623-CG codec

Speakers

Single speaker, 2W x1

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
300W	Fixed	90%	Autosensing, 80 PLUS Gold qualified
500W	Fixed	92%	Autosensing, 80 PLUS Platinum qualified
750W	Fixed	92%	Autosensing, 80 PLUS Platinum qualified

DESIGN

Mechanical

Form Factor

Tower (17L)

Dimensions (WxDxH)

170 x 315.4 x 376 mm (6.7 x 12.4 x 14.8 inches)

Weight

9.8 kg (21.6 lbs, maximum configuration)

Bays

- 1x 3.5" disk bay (standard)
- 1x 2.5" disk bay (optional)
- 1x 3.5" disk bay (optional)
- 1x slim ODD bay (optional)

M.2 Slots

- One M.2 slot (for WLAN)
- One M.2 PCIe Gen 3x4 slot (for SSD)

Expansion Slots

- One PCIe 3.0 x16
- One PCIe 3.0 x1

CONNECTIVITY

Network

Ethernet

Gigabit Ethernet, Realtek RTL8111EPV, 1x GbE RJ-45, supports Wake-on-LAN

Optional Ethernet

Gigabit Ethernet, Intel® I210-T1, 1x RJ-45, PCIe x1

WLAN + Bluetooth^[1]

- Mediatek Wi-Fi® 6 MT7921, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

Notes:

1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation

Ports^[1]

Front Ports

- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x USB-C® 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

Rear Ports^[2]

- 4x USB 2.0 (one supports Smart Power On)

- 1x HDMI 2.1 TMDS
- 2x DisplayPort™ 1.4
- 1x serial (9-pin)
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

Optional Rear Ports

- 2x USB 2.0
- 2x USB 3.2 Gen 1 (via 2-port USB expansion card, PCIe x1)
- 1x serial
- 4x serial (via 4-port serial expansion card, PCIe x1)
- 1x parallel

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;
USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
Thunderbolt™ 3/4: 40 Gbit/s;
2. For video ports on discrete graphics, please see graphics section

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in processor

Physical Locks

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

Chassis Intrusion Switch

- Chassis intrusion switch
- No chassis intrusion switch

BIOS Security

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

MANAGEABILITY

System Management

System Management

AMD Pro Manageability

SERVICE

Warranty

Base Warranty^[1]**

- 1-year limited onsite service
- 2-year limited onsite service
- 3-year limited onsite service with 9x5 NBD (for most models)
- No base warranty

Notes:

1. More information 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

Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- ErP Lot 3
- TCO Certified 9.0
- RoHS compliant

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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