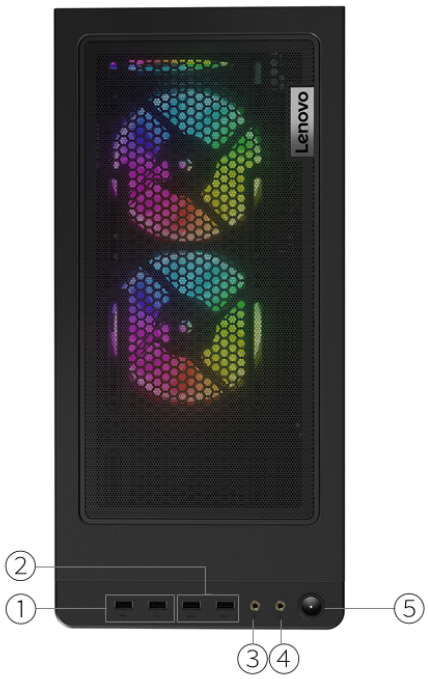
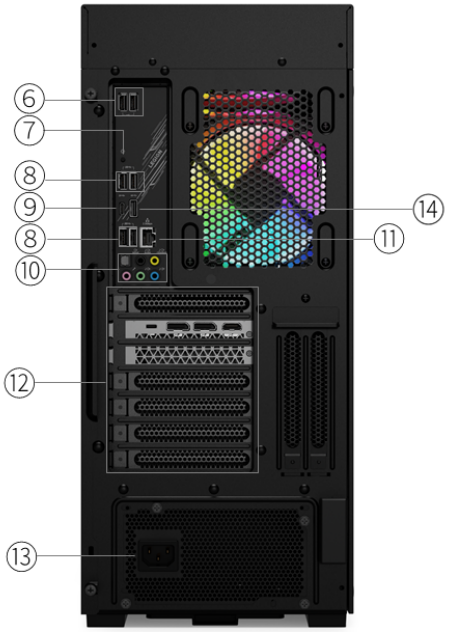
OVERVIEW





1. 2x USB 2.0	8. 4x USB 3.2 Gen 1
2. 2x USB 3.2 Gen 1	9. USB-C 3.2 Gen 2x2
3. Headphone (3.5mm)	10. 6x Audio connectors(with SPDIF)
4. Microphone (3.5mm)	11. Ethernet (RJ-45)
5. Power button	12. Optional ports on expansion cards
6. 2x USB 2.0	13. Power connector
7. Lighting switch	14. USB 3.2 Gen 2

PERFORMANCE

Processor

Processor Family

12th Generation Intel® Core™ i5 / i7 / i9 Processor

Processor[**][1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i5-12600K	10 (6 P-core + 4 E-core)	16	P-core 3.7GHz / E-core 2.8GHz	P-core 4.9GHz / E-core 3.6GHz	20MB	DDR5-4800	Intel UHD Graphics 770
Core i5-12600KF	10 (6 P-core + 4 E-core)	16	P-core 3.7GHz / E-core 2.8GHz	P-core 4.9GHz / E-core 3.6GHz	20MB	DDR5-4800	-
Core i7-12700K	12 (8 P-core + 4 E-core)	20	P-core 3.6GHz / E-core 2.7GHz	P-core 4.9GHz / E-core 3.8GHz	25MB	DDR5-4800	Intel UHD Graphics 770
Core i7-12700KF	12 (8 P-core + 4 E-core)	20	P-core 3.6GHz / E-core 2.7GHz	P-core 4.9GHz / E-core 3.8GHz	25MB	DDR5-4800	-
Core i9-12900K	16 (8 P-core + 8 E-core)	24	P-core 3.2GHz / E-core 2.4GHz	P-core 5.1GHz / E-core 3.9GHz	30MB	DDR5-4800	Intel UHD Graphics 770
Core i9-12900KF	16 (8 P-core + 8 E-core)	24	P-core 3.2GHz / E-core 2.4GHz	P-core 5.1GHz / E-core 3.9GHz	30MB	DDR5-4800	-

Notes:

1. P-core means performance core, E-core means efficient core

Operating System

Operating System[**]

- Windows® 11 Pro 64
- Windows 11 Home 64
- No operating system

Graphics

Graphics[**][1]

Graphics	Type	Memory	Boost Clock	TGP	Connector	Max Resolution	Key Features	Remark
AMD Radeon™ RX 6800XT	Discrete	16GB GDDR6	-	-	1x HDMI® 2.1, 2x DP 1.4,1x USB-C 3.2 Gen2	7680*4320@120Hz(HDMI), 7680x4320@60Hz(DP)	DirectX® 12	-
NVIDIA® GeForce® RTX™ 3060 Ti	Discrete	8G GDDR6			3x DP 1.4a, 1x HDMI 2.1	7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP)	DirectX 12	-
NVIDIA GeForce RTX 3070	Discrete	8G GDDR6			3x DP 1.4a, 1x HDMI 2.1	7680x4320@60Hz(HDMI); 7680x4320@60Hz(DP)	DirectX 12	-
NVIDIA GeForce RTX 3070 Ti	Discrete	8G GDDR6X	-	-	3x DP 1.4a, 1x HDMI 2.1	7680x4320@60Hz(HDMI); 7680x4320@60Hz(DP)	DirectX 12	-
NVIDIA GeForce RTX 3080	Discrete	10G GDDR6X			3x DP 1.4a, 1x HDMI 2.1	7680x4320@60Hz(HDMI); 7680x4320@60Hz(DP)	DirectX 12	-
NVIDIA GeForce RTX 3080 Ti	Discrete	12G GDDR6X	-	-	3x DP 1.4a, 1x HDMI 2.1	7680x4320@60Hz(HDMI); 7680x4320@60Hz(DP)	DirectX 12	-

Notes:

1. The information of integrated graphics are not applicable for the models without integrated graphics (for the details, please refer to processor section)

Monitor Support

Monitor Support

Supports up to 4 independent displays via discrete graphics

Chipset

Chipset

Intel Z690 chipset

Memory

Max Memory[1][2]

Up to 128GB DDR5-4800

Memory Slots

Four DDR5 UDIMM slots, dual-channel capable

Memory Type**

- DDR5-4800
- DDR5-4800, Armor

Memory Protection

Non-ECC

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.
2. Installed memory is actually 4800MHz, but may run at 4000MHz or 4400MHz depending on the memory support rules of Intel.

Storage

Storage Support[1]

Up to six drives, 2x 3.5" HDD + 2x 2.5" HDD + 2x M.2 SSD
• 3.5" HDD up to 2TB
• 2.5" HDD up to 1TB
• M.2 SSD up to 1TB

Storage Type**

Disk Type	Interface	RPM
3.5" SATA HDD	SATA 6Gb/s	7.2K
M.2 2280 SSD	PCIe® NVMe®	-

RAID

No support

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.

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC897 codec

Speakers

No speakers

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
500W	Fixed	85%	100V - 240V
550W	Fixed	88%	220V
850W	Fixed	90%	100V - 240V

DESIGN

Input Device

Keyboard

- Lenovo Calliope Keyboard (USB connector), black
- No keyboard

Mouse

- Lenovo Calliope Mouse (USB connector), black
- No mouse

Mechanical

Form Factor

Tower (34L)

Dimensions (WxDxH)

211 x 450 x 483 mm (8.3 x 17.7 x 19 inches)

Packaging Dimensions (WxDxH)

All models: 325 x 585 x 630 mm (12.8 x 23.03 x 24.8 inches)

Weight

17 kg (37.47 lbs)

Packaging Weight

All models: 17 kg (37.47 lbs)

Case Color

Black

Chassis

Transparent side cover

Bays

- 4x 2.5" disk bay
- 2x 3.5" disk bay

Expansion Slots

- One PCIe 5.0 x16
- One PCIe 4.0 x16 (x4 signal)
- Two PCIe 3.0 x1
- Four M.2 slots (one for WLAN, three for SSD)

Cooling System (Fan & Cooler)**

- Advance Pro Air Cooling, ARGB (120mm-Side-flow-air-cooler, 3x Front-120mm-FAN & 1x Rear-120-FAN)
- Advance Max Air Cooling, ARGB (120mm-Side-flow-air-cooler, 3x Front-120mm-FAN & 1x Rear-120-FAN & 2x Top-120mm-FAN)
- Premium Max Liquid Cooling, ARGB (360mm-integrated-liquid-cooler combined with 3x front 120mm-FAN, 1x Rear-120-FAN & 2x Top-120mm-FAN)

System Lighting**

- Legion OY iconic LED
- Internal ambient lighting

CONNECTIVITY

Network

Onboard Ethernet

2.5GbE, Realtek RTL8125BG Gaming Ethernet, 1x RJ-45

WLAN + Bluetooth®**[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2, M.2 card
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2, M.2 card

Notes:

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

Ports[1]

Rear Ports[1][2]

- 2x USB 2.0
- 4x USB 3.2 Gen 1
- 1x USB 3.2 Gen 2
- 6x audio connectors (with SPDIF)
- 1x USB-C 3.2 Gen 2x2
- 1x Lighting switch
- 1x Ethernet (RJ-45)
- 1x power connector

Top Ports

- 2x USB 2.0
- 2x USB 3.2 Gen 1
- 1x headphone (3.5mm)
- 1x microphone (3.5mm)

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;
   FireWire 400: 400 Mbit/s;
   FireWire 800: 800 Mbit/s
2. For video ports on discrete graphics, please see graphics section

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

BIOS Security

- Administrator password
- Hard disk password

SERVICE

Warranty

Base Warranty**[1]

- 1-year mail-in service
- 1-year depot service
- 2-year depot service
- 3-year depot service

Notes:

1. More information of warranty policy, please access https://pcsupport.lenovo.com/warranty

ENVIRONMENTAL

Operating Environment

Temperature

Storage: -40°C (-40°F) to 60°C (140°F)

Humidity

- Operating: 20% to 80%
- Storage: 10% to 90%

Altitude

- Operating: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications

Green Certifications

(Optional) ENERGY STAR® 8.0, ErP Lot 3, EPEAT™ Sliver

- Feature with ** means that only one offering listed under the feature is configured on selected models.
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