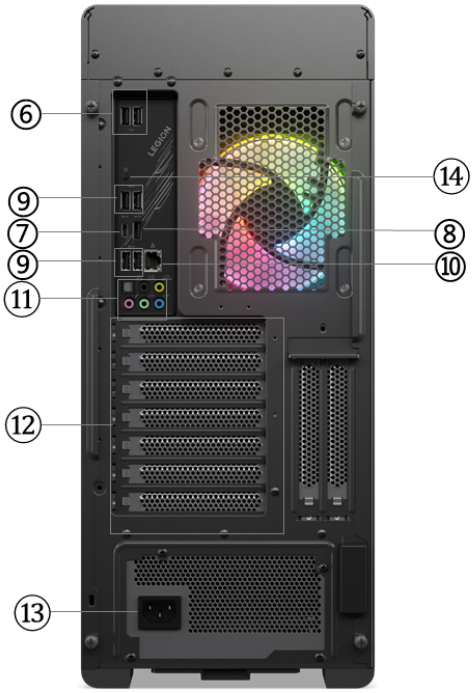
OVERVIEW





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

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

13th Generation Intel® Core™ i7 / i9 Processor

Processor[**][1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
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 i7-13700KF	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	-
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 i9-13900KF	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	-

Notes:

[1] Intel UHD Graphics in processor is disabled.

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[**]

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

Graphics

Graphics[**][1]

Graphics	Type	Memory	Connector	Max Resolution	Key Features
NVIDIA® GeForce RTX™ 3080	Discrete	10G GDDR6X	3x DP 1.4a, 1x HDMI® 2.1 FRL	7680x4320@60Hz(HDMI); 7680x4320@60Hz(DP)	DirectX® 12
NVIDIA GeForce RTX 4070	Discrete	12G GDDR6X	3x DP 1.4a, 1x HDMI 2.1 FRL	7680x4320@60Hz(HDMI); 7680x4320@120Hz(DP)	DirectX 12
NVIDIA GeForce RTX 4070 Ti	Discrete	12G GDDR6X	3x DP 1.4a, 1x HDMI 2.1 FRL	7680x4320@60Hz(HDMI); 7680x4320@120Hz(DP)	DirectX 12
NVIDIA GeForce RTX 4080	Discrete	16G GDDR6X	3x DP 1.4a, 1x HDMI 2.1 FRL	7680x4320@60Hz(HDMI); 7680x4320@120Hz(DP)	DirectX 12
NVIDIA GeForce RTX 4090	Discrete	24G GDDR6X	3x DP 1.4a, 1x HDMI 2.1 FRL	7680x4320@60Hz(HDMI); 7680x4320@120Hz(DP)	DirectX 12

Notes:

[1] The information of integrated graphics are not applicable for the models with processor which has no integrated graphics inside (for the details, please refer to processor section).

Monitor Support

Monitor Support

Supports up to 4 independent displays via discrete graphics ports (DP, HDMI)

Chipset

Chipset

Intel Z790 chipset

Memory

Max Memory[1]

Up to 64GB DDR5-5600

Memory Slots

Four DDR5 UDIMM slots, dual-channel capable

Memory Type**

- DDR5-4800
- DDR5-5600

Memory Protection

Non-ECC

Notes:

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

Storage

Storage Support[1]

Up to seven drives, 2x 3.5″ HDD + 2x 2.5″ HDD + 3x M.2 SSD
• 3.5″ HDD up to 2TB
• 2.5″ HDD up to 2TB
• M.2 SSD up to 2TB

Storage Type**

Disk Type	Interface	RPM
3.5″ SATA HDD	SATA 6Gb/s	7.2K
M.2 2280 SSD	PCIe® NVMe®, PCIe 4.0 x4	-

Notes:

[1] The max capacity of each disk type is based on the test results with current Lenovo storage offerings.

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
850W	Fixed	90%	100V - 240V
1200W	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)[1]

211 x 464 x 494 mm (8.3 x 18.26 x 19.44 inches)

Packaging Dimensions (WxDxH)

318 x 580 x 625 mm (12.51 x 22.8 x 24.6 inches)

Weight[2]

17 kg (37.47 lbs)

Packaging Weight

19 kg (41.88 lbs)

Case Color

Storm grey

Chassis**

- Transparent side cover
- Transparent side cover and inner decorate cover

Expansion Slots

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

Cooling System (Fan & Cooler)**

- 1x 150W 120mm-Fan with ARGB lighting air cooler, 1x rear system fan with ARGB, 2x top system fan with ARGB, 3x front system fan with ARGB
- 1x 150W 120mm-Fan with ARGB lighting air cooler, 1x rear system fan with ARGB, 3x front system fan with ARGB
- 1x 250W 360mm-Fan with ARGB lighting liquid cooler, 1x rear system fan with ARGB, 2x top system fan with ARGB

System Lighting

Legion ARGB Lighting

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

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

WLAN + Bluetooth®[1]

Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card[2]

Notes:

[1] WIFI 6E may downgrade to WIFI 6 due to Regulatory restrictions.
[2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

Ports[1]

Rear Ports**[2]

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

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;
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.
[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[1]

Base Warranty**

- 1-year mail-in service
- 1-year courier or carry-in service
- 2-year courier or carry-in service
- 3-year courier or carry-in service

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

At altitudes up to 2438 m (8,000 ft)
- Operating: 5°C to 35°C (41°F to 95°F)
- Storage: 5°C to 43°C (41°F to 109°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[1]

Green Certifications

- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

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