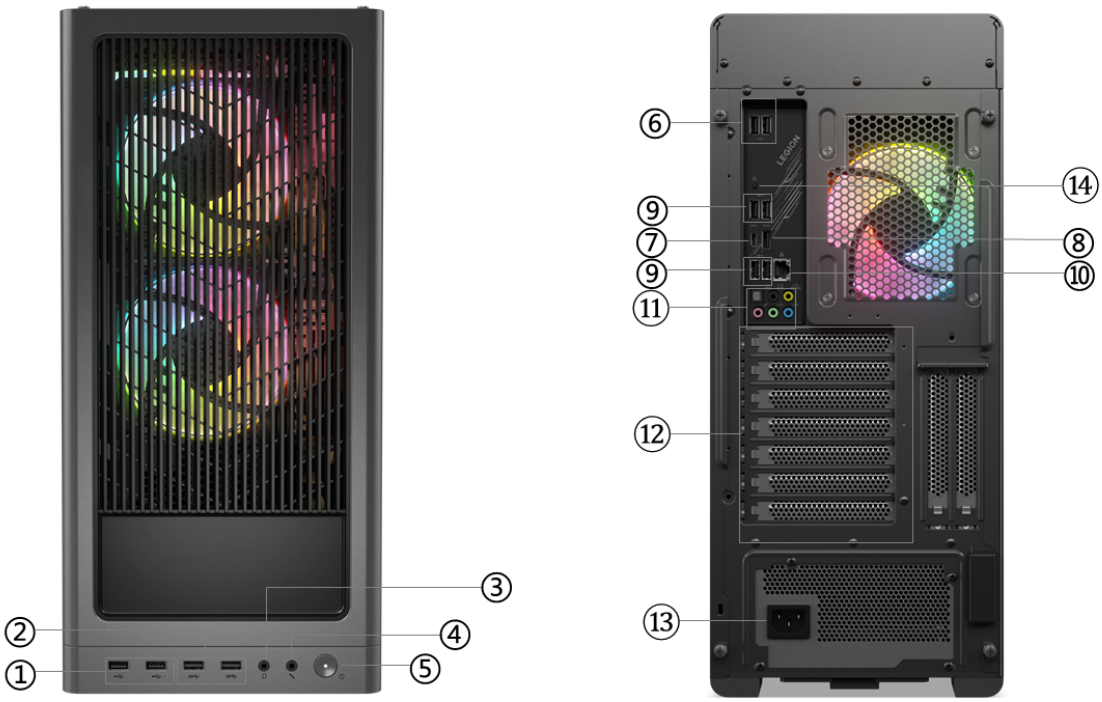
## OVERVIEW




| | |
|---|---|
| 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 | - |
| Core i7-14700KF | 20 (8 P-core + 12 E-core) | 28 | P-core 3.4GHz / E-core 2.5GHz | Max Turbo up to 5.6GHz / P-core 5.5GHz / E-core 4.3GHz | 33MB | DDR5-5600 | - |
| Core i9-14900K | 24 (8 P-core + 16 E-core) | 32 | P-core 3.2GHz / E-core 2.4GHz | Max Turbo up to 6GHz / P-core 5.6GHz / E-core 4.4GHz | 36MB | DDR5-5600 | Intel UHD Graphics 770 |

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 |

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

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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 | - |

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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

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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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