

OVERVIEW



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

Notes:

- Items with * are only available on selected models

PERFORMANCE

Processor

Processor Family

13th Generation Intel® Core™ i5 / i7 / i9 Processor

Processor^[1]

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|-----------------|---------------------------|---------|-------------------------------|-------------------------------|-------|----------------|------------------------|
| Core i5-13400 | 10 (6 P-core + 4 E-core) | 16 | P-core 2.5GHz / E-core 1.8GHz | P-core 4.6GHz / E-core 3.3GHz | 20MB | DDR5-5600 | Intel UHD Graphics 730 |
| Core i5-13400F | 10 (6 P-core + 4 E-core) | 16 | P-core 2.5GHz / E-core 1.8GHz | P-core 4.6GHz / E-core 3.3GHz | 20MB | DDR5-5600 | - |
| Core i5-13600KF | 14 (6 P-core + 8 E-core) | 20 | P-core 3.5GHz / E-core 2.6GHz | P-core 5.1GHz / E-core 3.9GHz | 24MB | DDR5-5600 | - |
| Core i7-13700 | 16 (8 P-core + 8 E-core) | 24 | P-core 2.1GHz / E-core 1.5GHz | P-core 5.1GHz / E-core 4.1GHz | 30MB | DDR5-5600 | Intel UHD Graphics 770 |
| Core i7-13700F | 16 (8 P-core + 8 E-core) | 24 | P-core 2.1GHz / E-core 1.5GHz | P-core 5.1GHz / E-core 4.1GHz | 30MB | DDR5-5600 | - |
| Core i7-13700K | 16 (8 P-core + 8 E-core) | 24 | P-core 3.4GHz / E-core 2.5GHz | 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 | P-core 5.3GHz / E-core 4.2GHz | 30MB | DDR5-5600 | - |
| Core i9-13900 | 24 (8 P-core + 16 E-core) | 32 | P-core 2.0GHz / E-core 1.5GHz | P-core 5.2GHz / E-core 4.2GHz | 36MB | DDR5-5600 | Intel UHD Graphics 770 |
| Core i9-13900F | 24 (8 P-core + 16 E-core) | 32 | P-core 2.0GHz / E-core 1.5GHz | P-core 5.2GHz / E-core 4.2GHz | 36MB | DDR5-5600 | - |

Notes:

- 1: Intel UHD Graphics in processor is disabled

Operating System

Operating System^[1]

- Windows® 11 Pro
- Windows 11 Home
- Windows 11 Home Single Language

Notes:

- 1: Some features may not be supported on the system with Linux preload, including but not limited to Intel RST RAID, Human Presence Detection, etc.

Graphics

Graphics^[1]

| Graphics | Type | Memory | Connector | Max Resolution | Key Features |
|----------------------------|----------|------------|------------------------------|---|-------------------------|
| AMD Radeon™ RX 6500XT | Discrete | 4GB GDDR6 | 1x HDMI® 2.1 FRL , 1x DP 1.4 | 7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP) | DirectX® 12, OpenGL 4.6 |
| NVIDIA® GeForce RTX™ 3050 | Discrete | 8GB GDDR6 | 1x HDMI 2.1 FRL, 3x DP 1.4 | 7680x4320@60Hz(HDMI), 7680x4320@120Hz(DP) | DirectX 12 |
| NVIDIA GeForce RTX 3060 | Discrete | 12G GDDR6 | 3x DP 1.4a, 1x HDMI 2.1 FRL | 7680x4320@60Hz(HDMI), 5120x2880@60Hz(DP) | DirectX 12 |
| NVIDIA GeForce RTX 3060 Ti | Discrete | 8G GDDR6 | 1x HDMI 2.1 FRL, 3x DP 1.4a | 7680*4320@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 |

Notes:

- 1.1: 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 ports (DP, HDMI)

Chipset

Chipset

Intel B660 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:

- 1.1: 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 five drives, 2x 3.5" HDD + 2x M.2 SSD + 1x open 2.5 HDD Bay

- 3.5" HDD up to 2TB each
- M.2 SSD up to 1TB each

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 | - |

RAID

No support

Notes:

- 1.1: 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-Q codec

Speakers

No speakers

Power Supply

Power Supply

| Power | Type | Efficiency | Key Features |
|-------|-------|------------|-------------------|
| 350W | Fixed | 85% | 100-240V, 50-60Hz |
| 500W | Fixed | 85% | 100V - 240V |
| 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 (26L)

Dimensions (WxDxH)^[1]

205 x 396.9 x 425.9 mm (8.1 x 15.62 x 16.76 inches)

Packaging Dimensions (WxDxH)

325 x 502 x 580 mm (12.79 x 19.76 x 22.83 inches)

Weight^[2]

Around 14 kg (30.86 lbs)

Packaging Weight

All models: Around 16 kg (35.27 lbs)

Case Color

Storm grey

Chassis

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

Bays

- 1x 2.5" disk bay
- 2x 3.5" disk bay

Expansion Slots

- One PCIe 4.0 x16
- One PCIe 3.0 x4
- Three M.2 slots (one for WLAN, two for SSD)

Cooling System (Fan & Cooler)

- 1x front system fan, 1x rear system fan
- 1x rear system fan
- 1x rear system fan with ARGB
- 1x rear system fan with ARGB, 2x front system fan with ARGB
- 1x rear system fan with ARGB, 2x front system fan with ARGB, 2x top system fan with ARGB
- 2x M.2 SSD Heatsink
- 65W 80MM-Fan cooler
- 150W 120MM-Fan cooler
- 150W 120MM-Fan with ARGB light cooler
- M.2 SSD DECO Mylar® Heatsink
- M.2 SSD Heatsink
- PCH Heatsink
- VRM Heatsink

System Lighting

- Legion Wordmark lighting
- (Optional) Internal ambient lighting

Others

(Optional) Dust Filter (bottom-air-inlet & top-air-venting)

Notes:

- 1.1: The system dimensions may vary depending on configurations.
- 2.2: 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® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

Notes:

- 1.1: 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 2 (support data transfer and 5V@3A charging)
- 4x USB 2.0
- 2x USB 3.2 Gen 1
- 3x audio connector (3.5mm)
- 1x Lighting switch
- 1x Ethernet (RJ-45)
- 1x power connector

Top Ports

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

Notes:

- 1.1: 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
- 2.2: 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
- Power-on password

SERVICE

Warranty^[1]

Base Warranty

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

Notes:

- 1.1: 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

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

Humidity

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

Altitude

- Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: -15.2 m (-50 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications^[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

Notes:

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

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