

OVERVIEW



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

PERFORMANCE

Processor

Processor Family

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

Processor

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|-----------------|--------------------------|---------|-------------------------------|-------------------------------|-------|----------------|------------------------|
| Core i5-12400 | 6 (6 P-core + 0 E-core) | 12 | P-core 2.5GHz | P-core 4.4GHz | 18MB | DDR5-4800 | Intel UHD Graphics 730 |
| Core i5-12400F | 6 (6 P-core + 0 E-core) | 12 | P-core 2.5GHz | P-core 4.4GHz | 18MB | DDR5-4800 | - |
| 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 i7-12700 | 12 (8 P-core + 4 E-core) | 20 | P-core 2.1GHz / E-core 1.6GHz | P-core 4.8GHz / E-core 3.6GHz | 25MB | DDR5-4800 | Intel UHD Graphics 770 |
| Core i7-12700F | 12 (8 P-core + 4 E-core) | 20 | P-core 2.1GHz / E-core 1.6GHz | P-core 4.8GHz / E-core 3.6GHz | 25MB | DDR5-4800 | Intel UHD Graphics 770 |
| Core i9-12900 | 16 (8 P-core + 8 E-core) | 24 | P-core 2.1GHz / E-core 1.6GHz | P-core 4.8GHz / E-core 3.6GHz | 30MB | DDR5-4800 | Intel UHD Graphics 770 |
| Core i9-12900F | 16 (8 P-core + 8 E-core) | 24 | P-core 2.1GHz / E-core 1.6GHz | P-core 4.8GHz / E-core 3.6GHz | 30MB | DDR5-4800 | - |

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 |
|---------------------------------|----------|-----------|-------------|-----|---------------------------------|---|--------------|--------|
| NVIDIA® GeForce® GTX 1650 SUPER | Discrete | 4GB GDDR6 | - | - | 1x HDMI® 2.0b, 2x DP 1.4 | 7680x4320 @60Hz(DP), 4096x2160@60Hz(HDMI) | DirectX® 12 | - |
| NVIDIA GeForce GTX 1660 SUPER | Discrete | 6GB GDDR6 | | | 1x DVI, 1x HDMI 2.0b, 1x DP 1.4 | 4096x2160@60Hz(HDMI), 5120x3200@60Hz(DP), 2560x1660@60Hz(DVI) | DirectX 12 | - |
| NVIDIA GeForce RTX™ 3060 | Discrete | 12G GDDR6 | | | 3x DP 1.4a, 1x HDMI 2.1 | 7680x4320@60Hz(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 | - |

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 B660 chipset

Memory

Max Memory^[1]

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.

Storage

Storage Support

- Up to two drives, 1x 3.5" HDD + 1x M.2 SSD
 - 3.5" HDD up to 2TB
 - M.2 SSD up to 1TB
- 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 | Offering | Security |
|---------------|-------------|------|----------|----------|
| 3.5" SATA HDD | SATA 6Gb/s | 7.2K | - | - |
| M.2 2280 SSD | PCIe® NVMe® | - | - | - |

RAID

No support

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC897Q codec

Speakers

No speakers

Power Supply

Power Supply

| Power | Type | Efficiency | Key Features |
|-------|------|------------|--------------|
| | | | |

| | | | |
|------|-------|-----|-------------|
| 350W | Fixed | 85% | 100V - 240V |
| 500W | Fixed | 85% | 100V - 240V |
| 550W | Fixed | 88% | 220V |

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)

| Models | Dimensions |
|------------|---|
| All models | 205 x 395.4 x 420 mm (8.1 x 15.57 x 16.54 inches) |

Weight

| Models | Weight |
|------------|-------------------|
| All models | 14 kg (30.86 lbs) |

Case Color

Black

Chassis

- (Optional) Normal side cover
- (Optional) Transparent side cover
- (Optional) 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)

- (Optional) Advance Air Cooling (1x Rear)
- (Optional) Advance Air Cooling with ARGB (1x Rear)
- (Optional) Advance Max Air Cooling with ARGB (1x Rear + 2x Front + 2x Top)
- (Optional) Advance Plus Air Cooling (1x Rear + 1x Front)
- (Optional) Advance Pro Air Cooling with ARGB (1x Rear + 2x Front)
- (Optional) Default Air Cooling (1x Rear)
- (Optional) Default Air Cooling with ARGB (1x Rear)
- (Optional) Default Plus Air Cooling (1x Rear + 1x Front)
- (Optional) Default Pro Air Cooling (1x Rear + 2x Front)

System Lighting

- (Optional) Internal ambient lighting
- Legion OY iconic LED

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, 1x RJ-45

WLAN + Bluetooth®

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

Ports^[1]

Rear Ports^[2]

- 4x USB 2.0
- 2x USB 3.2 Gen 1
- 3x audio connector (3.5mm)
- 1x USB-C 3.2 Gen 2 (support data transfer and 5V@3A charging)
- 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. 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: 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
- Power-on password
- Hard disk password

SERVICE

Warranty

Base Warranty

- 1-year mail-in service
- 1-year depot service
- 1-year limited onsite service
- 2-year depot service
- 3-year depot service
- OB

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
- RoHS compliant

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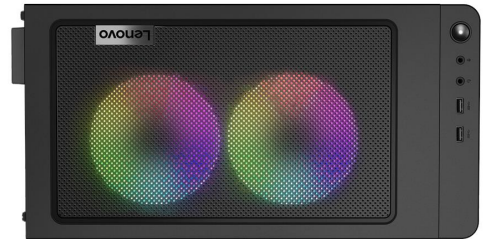
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