

OVERVIEW



| | |
|-----------------------|---------------------------------------|
| 1. 2x USB 3.2 Gen 1 | 7. 2x USB 2.0 |
| 2. Headphone (3.5mm) | 8. Ethernet (RJ-45) |
| 3. Microphone (3.5mm) | 9. 3x Audio line-out (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

AMD Ryzen™ 5 / 7 / 9 Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|-------------------|-------|---------|----------------|---------------|------------------|----------------|----------------------|
| AMD Ryzen 5 3600 | 6 | 12 | 3.6GHz | 4.2GHz | 3MB L2 / 32MB L3 | DDR4-3200 | - |
| AMD Ryzen 5 5600G | 6 | 12 | 3.9GHz | 4.4GHz | 3MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen 7 3700X | 8 | 16 | 3.6GHz | 4.4GHz | 4MB L2 / 32MB L3 | DDR4-3200 | - |
| AMD Ryzen 7 5700G | 8 | 16 | 3.8GHz | 4.6GHz | 4MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon Graphics |
| AMD Ryzen 7 5800 | 8 | 16 | 3.4GHz | 4.6GHz | 4MB L2 / 32MB L3 | DDR4-3200 | - |
| AMD Ryzen 9 5900X | 12 | 24 | 3.7GHz | 4.8GHz | 6MB L2 / 64MB L3 | DDR4-3200 | - |
| AMD Ryzen 9 5950X | 16 | 32 | 3.4GHz | 4.9GHz | 8MB L2 / 64MB L3 | DDR4-3200 | - |

Operating System

Operating System**

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 Home 64 Single Language
- Windows 10 Pro 64
- Windows 10 Home 64
- Windows 10 Home 64 Single Language
- No operating system

Graphics

Graphics**[1]

| Graphics | Type | Memory | Connector | Max Resolution | Key Features |
|--------------------------------|----------|------------|--|---|------------------------|
| AMD Radeon RX 5500 | Discrete | 4GB GDDR6 | 1x HDMI® 2.0, 3x DP 1.4 | 4096x2160@60Hz(HDMI), 7680x4320@60Hz(DP) | DirectX® 12 |
| AMD Radeon RX 6500XT | Discrete | 4GB GDDR6 | 1x HDMI 2.1, 1x DP 1.4 | 7680x4320@60Hz(HDMI), 7680x4320@60Hz(DP) | DirectX 12, OpenGL 4.6 |
| 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 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 | 7680x4320@60Hz(DP) | DirectX 12 |
| NVIDIA GeForce RTX™ 2060 CD | Discrete | 6GB GDDR6 | 1x HDMI 2.0b, 3x DP 1.4 | 4096x2160@60Hz(HDMI), 7680x4320@60Hz with DSC(DP) | DirectX 12 |
| NVIDIA GeForce RTX 2070 CD | Discrete | 8GB GDDR6 | 1x HDMI 2.0b, 3x DP 1.4 | 7680x4320@60Hz(DP) | DirectX 12 VR ready |
| 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 | Discrete | 8G | 3x DP 1.4a, 1x HDMI 2.1 | 7680x4320@60Hz(HDMI), | DirectX 12 |

| | | | | | |
|----------------------------|----------|-----------|-------------------------|---|------------|
| RTX 3060 Ti | | GDDR6 | | 7680x4320@60Hz(DP) | |
| 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 |

Notes:

- 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^[1]

Supports up to 4 independent displays via discrete graphics

Notes:

- Ports may vary by the discrete graphics.

Chipset

Chipset

AMD B550 chipset

Memory

Max Memory^[1]

Up to 128GB DDR4-3200

Memory Slots

Four DDR4 UDIMM slots, dual-channel capable

Memory Type^{**}

- DDR4-3200
- DDR4-3200, Armor

Memory Protection

Non-ECC

Notes:

- 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 + 1x 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 | Security |
|---------------|-------------|------|----------|
| 2.5" SATA HDD | SATA 6Gb/s | 7.2K | - |
| M.2 2280 SSD | PCIe® NVMe® | - | - |

RAID

No support

Notes:

- 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® ALC892 codec

Speakers

No speakers

Power Supply

Power Supply**

| Power | Type | Efficiency | Key Features |
|-------|-------|------------|-------------------|
| 350W | Fixed | 85% | 100-240V, 50-60Hz |
| 400W | Fixed | 90% | 100-240V, 50-60Hz |
| 550W | Fixed | 88% | 220V |
| 650W | Fixed | 90% | 100V - 240V |
| 850W | Fixed | 90% | 100V - 240V |

DESIGN

Input Device

Keyboard

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

Mouse

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

Mechanical

Form Factor

Tower (26L)

Dimensions (WxDxH)

205 x 396 x 411 mm (8.1 x 15.6 x 16.2 inches)

Packaging Dimensions (WxDxH)

370 x 485 x 550 mm (14.57 x 19.09 x 21.65 inches)

Weight

14 kg (30.86 lbs)

Packaging Weight

All models: 16 kg (35.27 lbs)

Case Color

Raven black

Chassis**

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

Bays

- 1x 2.5" disk bay
- 2x 2.5"/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) 1x front system fan, 1x rear system fan
- (Optional) 1x front system fan, 1x rear system fan for airflow or liquid
- (Optional) 1x front system fan, 1x rear system fan with ARGB
- (Optional) 1x rear system fan with ARGB
- (Optional) 1x rear system fan
- (Optional) 2x top system fan with ARGB, 2x front system fan with ARGB, 1x rear system fan with ARGB
- (Optional) 2x top system fan with ARGB, 1x front system fan, 1x rear system fan with ARGB
- (Optional) 2x top system fan, 1x front system fan, 1x rear system fan
- (Optional) 2x front system fan with ARGB, 1x rear system fan with ARGB
- (Optional) 2x front system fan, 1x rear system fan
- (Optional) 65W Air-Cooler, 95W Air-Cooler, or 150W Air-Cooler

System Lighting^{*}**

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

Others

(Optional) Carry handle

CONNECTIVITY

Network

Onboard Ethernet^{}**

- Gigabit Ethernet, 1x RJ-45
- Gigabit Ethernet, Realtek RTL8111H, 1x RJ-45

WLAN + Bluetooth^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- No WLAN and Bluetooth

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
- 2x USB 3.2 Gen 1
- 1x USB-C 3.2 Gen 2 (support data transfer and 5V@3A charging)
- 1x Ethernet (RJ-45)
- 3x line-out(3.5mm)
- 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™ 3/4: 40 Gbit/s
2. For video ports on discrete graphics, please see graphics section

SECURITY & PRIVACY

Security

BIOS Security

- Administrator password
- Power-on password

SERVICE

Warranty

Base Warranty**^[1]

- 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
- OB

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

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

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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