

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:

- 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
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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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