

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**[1]

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™ i7-12700	12 (8 P-core + 4 E-core)	20	P-core 2.1GHz / E-core 1.6GHz	Max Turbo up to 4.9GHz / 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	Max Turbo up to 4.9GHz / P-core 4.8GHz / E-core 3.6GHz	25MB	DDR5-4800	-
Core™ i9-12900	16 (8 P-core + 8 E-core)	24	P-core 2.4GHz / E-core 1.8GHz	Max Turbo up to 5.1GHz / P-core 5.0GHz / E-core 3.8GHz	30MB	DDR5-4800	Intel® UHD Graphics 770
Core™ i9-12900F	16 (8 P-core + 8 E-core)	24	P-core 2.4GHz / E-core 1.8GHz	Max Turbo up to 5.1GHz / P-core 5.0GHz / E-core 3.8GHz	30MB	DDR5-4800	-

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

Graphics

Graphics**[1]

Graphics	Type	Memory	Connector	Max Resolution	Key Features
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™ 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®), 7680x4320@60Hz(DP)	DirectX® 12
NVIDIA® GeForce RTX™ 3060 Ti	Discrete	8G GDDR6	3x DP 1.4a, 1x HDMI® 2.1 FRL	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 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

Chipset

Chipset

Intel® B660 chipset

Memory

Max Memory^{[1][2]}

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.
[2] Installed memory is actually 4800MHz, but may run at 4000MHz or 4400MHz depending on the memory support rules of Intel®.

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®	-

RAID

No support

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-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
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)^[1]

205 x 395.4 x 420 mm (8.1 x 15.57 x 16.54 inches)

Packaging Dimensions (WxDxH)

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

Weight^[2]

14 kg (30.86 lbs)

Packaging Weight

All models: Around 16 kg (35.27 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

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

Gigabit Ethernet, 1x RJ-45

WLAN + Bluetooth®

Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card

Ports^[1]

Rear Ports^[2]

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

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;

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
- Power-on password
- Hard disk password

SERVICE

Warranty^[1]

Base Warranty**

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

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

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^[1]

Green Certifications

- (Optional) 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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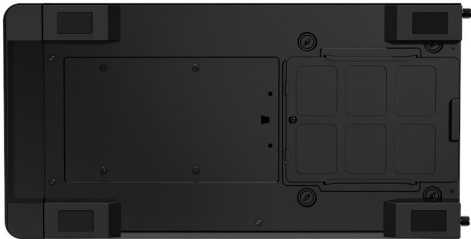
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