OVERVIEW





1. 2x USB 3.2 Gen 1	8. Ethernet (RJ-45)
2. Headphone jack (3.5mm)	9. 2x USB 2.0
3. Microphone jack (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	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	9.5MB L2 Cache / 20MB Intel® Smart Cache	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	9.5MB L2 Cache / 20MB Intel® Smart Cache	-
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	20MB L2 Cache / 24MB Intel® Smart Cache	-
Core i7-13700	16 (8 P-core + 8 E-core)	24	P-core 2.1GHz / E-core 1.5GHz	Max Turbo up to 5.2GHz / P-core 5.1GHz / E-core 4.1GHz	24MB L2 Cache / 30MB Intel® Smart Cache	Intel® UHD Graphics 770
Core i7-13700F	16 (8 P-core + 8 E-core)	24	P-core 2.1GHz / E-core 1.5GHz	Max Turbo up to 5.2GHz / P-core 5.1GHz / E-core 4.1GHz	24MB L2 Cache / 30MB Intel® Smart Cache	-
Core i7-13700K	16 (8 P-core + 8 E-core)	24	P-core 3.4GHz / E-core 2.5GHz	Max Turbo up to 5.4GHz / P-core 5.3GHz / E-core 4.2GHz	24MB L2 Cache / 30MB Intel® Smart Cache	Intel® UHD Graphics 770
Core i7-13700KF	16 (8 P-core + 8 E-core)	24	P-core 3.4GHz / E-core 2.5GHz	Max Turbo up to 5.4GHz / P-core 5.3GHz / E-core 4.2GHz	24MB L2 Cache / 30MB Intel® Smart Cache	-
Core i9-13900	24 (8 P-core + 16 E-core)	32	P-core 2.0GHz / E-core 1.5GHz	Max Turbo up to 5.6GHz / P-core 5.2GHz / E-core 4.2GHz	32MB L2 Cache / 36MB Intel® Smart Cache	Intel® UHD Graphics 770
Core i9-13900F	24 (8 P-core + 16 E-core)	32	P-core 2.0GHz / E-core 1.5GHz	Max Turbo up to 5.6GHz / P-core 5.2GHz / E-core 4.2GHz	32MB L2 Cache / 36MB Intel® Smart Cache	-
Core i5-14400F	10 (6 P-core + 4 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 4.7GHz / E-core 3.5GHz	9.5MB L2 Cache / 20MB Intel® Smart Cache	-
Core i5-14600KF	14 (6 P-core + 8 E-core)	20	P-core 3.5GHz / E-core 2.6GHz	P-core 5.3GHz / E-core 4GHz	20MB L2 Cache / 24MB Intel® Smart Cache	-
Core i7-14700	20 (8 P-core + 12 E-core)	28	P-core 2.1GHz / E-core 1.5GHz	Max Turbo up to 5.4GHz / P-core 5.3GHz / E-core 4.2GHz	28MB L2 Cache / 33MB Intel® Smart Cache	Intel® UHD Graphics 770
Core i7-14700F	20 (8 P-core + 12 E-core)	28	P-core 2.1GHz / E-core 1.5GHz	Max Turbo up to 5.4GHz / P-core 5.3GHz / E-core 4.2GHz	28MB L2 Cache / 33MB Intel® Smart Cache	-
Core i7-14700K	20 (8 P-core + 12 E-core)	28	P-core 3.4GHz / E-core 2.5GHz	Max Turbo up to 5.6GHz / P-core 5.5GHz / E-core 4.3GHz	28MB L2 Cache / 33MB Intel® Smart Cache	-
Core i7-14700KF	20 (8 P-core + 12 E-core)	28	P-core 3.4GHz / E-core 2.5GHz	Max Turbo up to 5.6GHz / P-core 5.5GHz / E-core 4.3GHz	28MB L2 Cache / 33MB Intel® Smart Cache	-
Core i9-14900	24 (8 P-core + 16 E-core)	32	P-core 2.0GHz / E-core 1.5GHz	Max Turbo up to 5.8GHz / P-core 5.4GHz / E-core	32MB L2 Cache / 36MB Intel® Smart	Intel® UHD Graphics 770

				4.3GHz	Cache	
Core i9-14900F	24 (8 P-core + 16 E-core)	32	P-core 2.0GHz / E-core 1.5GHz	Max Turbo up to 5.8GHz / P-core 5.4GHz / E-core 4.3GHz	32MB L2 Cache / 36MB Intel® Smart Cache	-

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

Graphics

Graphics**[1]

Graphics	Type	Memory	AI TOPS (Peak)	Max Resolution	Connector	Key Features
NVIDIA® GeForce RTX™ 3050	Discrete	8GB GDDR6	-	7680x4320@60Hz(HDMI®), 7680x4320@120Hz(DP)[2]	1x HDMI® 2.1 FRL, 3x DP 1.4	DirectX® 12
NVIDIA® GeForce RTX™ 3060	Discrete	12G GDDR6	-	7680x4320@60Hz(HDMI®), 7680x4320@120Hz(DP)[3]	3x DP 1.4a, 1x HDMI® 2.1 FRL	DirectX® 12
NVIDIA® GeForce RTX™ 3060 Ti	Discrete	8G GDDR6	-	7680x4320@60Hz(HDMI®), 7680x4320@120Hz(DP)[4]	1x HDMI® 2.1 FRL, 3x DP 1.4a	DirectX® 12
NVIDIA® GeForce RTX™ 4060	Discrete	8G GDDR6	242	7680x4320@60Hz with DSC, HDR(HDMI®), 7680x4320@60Hz with DSC, HDR(DP)	1x HDMI® 2.1a FRL, 3x DP 1.4a	DirectX® 12
NVIDIA® GeForce RTX™ 4060 Ti	Discrete	8G GDDR6	353	7680x4320@60Hz with DSC, HDR(HDMI®), 7680x4320@60Hz with DSC, HDR(DP)	1x HDMI® 2.1a FRL, 3x DP 1.4a	DirectX® 12
NVIDIA® GeForce RTX™ 4070	Discrete	12G GDDR6X	466	7680x4320@60Hz(HDMI®); 7680x4320@60Hz(DP)	3x DP 1.4a, 1x HDMI® 2.1a FRL	DirectX® 12
NVIDIA® GeForce RTX™ 4070 SUPER	Discrete	12G GDDR6X	568	7680x4320@60Hz with DSC, HDR(HDMI®), 7680x4320@60Hz with DSC, HDR(DP)	3x DP 1.4a, 1x HDMI® 2.1a FRL	DirectX® 12
NVIDIA® GeForce RTX™ 4070 Ti	Discrete	12G GDDR6X	641	7680x4320@60Hz(HDMI®); 7680x4320@60Hz(DP)	3x DP 1.4a, 1x HDMI® 2.1a FRL	DirectX® 12
NVIDIA® GeForce RTX™ 4070 Ti SUPER 16GB	Discrete	16G GDDR6X	706	7680x4320@60Hz with DSC, HDR(HDMI®), 7680x4320@60Hz with DSC, HDR(DP)	3x DP 1.4a, 1x HDMI® 2.1a FRL	DirectX® 12
AMD Radeon™ RX 6500XT	Discrete	4GB GDDR6	-	7680x4320@60Hz(HDMI®), 7680x4320@60Hz(DP)	1x HDMI® 2.1 FRL , 1x DP 1.4	DirectX® 12, OpenGL 4.6

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).

[2], [3], [4] Requires two DisplayPort™ 1.4a links and DSC compression.

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][2]

Up to 64GB DDR5-5600

Memory Slots

Four DDR5 UDIMM slots, dual-channel capable

Memory Type**[3]

- DDR5-4800
- DDR5-5600

Memory Protection

Non-ECC

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.
[2] Maximum supported memory speed may be lower when populating multiple DIMMs per channel on products that support multiple memory channels.
[3] Installed memory is actually DDR5-5600 or DDR5-4800 but may run as DDR5-4400 or DDR5-4000 depending on the memory support capability of Intel®.

Storage

Max Storage Support[1]

Up to five drives, 2x 3.5" HDD + 1x M.2 SSD + 1x open M.2 SSD + 1x open 2.5 HDD Bay
• 3.5" HDD up to 2TB each
• M.2 SSD up to 2TB 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] 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
850W	Fixed	90%	100V - 240V
500W	Fixed	88%	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**

- (Optional) Internal ambient lighting

- Legion Wordmark lighting

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

WLAN + Bluetooth®[1]**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card

Onboard Ethernet

2.5GbE, Realtek® RTL8125BG Gaming Ethernet, 1x RJ-45

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

Ports[1]

Rear Ports[2]

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

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.
Thunderbolt™ 5: 80 Gbit/s (bidirectional), up to 120 Gbit/s in bandwidth boost mode for video-intensive applications.
[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

- More BIOS security features, please visit BIOS Simulator[1]

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

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

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://support.lenovo.com/warrantylookup/warrantypolicy.

OPERATING REQUIREMENTS

Operating Environment

Temperature

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

Relative 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

Green Certifications

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

- Feature with ** means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
- Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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