

OVERVIEW



1. Ethernet (RJ-45)	6. Power Connector
2. USB-C 3.2 Gen 2	7. USB 3.2 Gen 1
3. HDMI 2.1	8. USB-C 3.2 Gen 2 (data transfer / DP 1.4 only)
4. USB 3.2 Gen 1	9. Headphone / microphone combo jack (3.5mm)
5. USB 3.2 Gen 1 (Always On)	10. USB 3.2 Gen 1

PERFORMANCE

Processor

Processor Family

13th Generation Intel® Core™ i5 / i7 / i9 Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i5-13500HX	14 (6 P-core + 8 E-core)	20	P-core 2.5GHz / E-core 1.8GHz	P-core 4.7GHz / E-core 3.5GHz	24MB	Intel UHD Graphics
Core i7-13700HX	16 (8 P-core + 8 E-core)	24	P-core 2.1GHz / E-core 1.5GHz	P-core 5.0GHz / E-core 3.7GHz	30MB	Intel UHD Graphics
Core i9-13900HX	24 (8 P-core + 16 E-core)	32	P-core 2.2GHz / E-core 1.6GHz	P-core 5.4GHz / E-core 3.9GHz	36MB	Intel UHD Graphics

Operating System

Operating System**

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

Graphics

Graphics**

Graphics	Type	Memory	Boost Clock	TGP	Key Features
NVIDIA® GeForce RTX™ 4050 Laptop GPU	Discrete	6GB GDDR6	2370 MHz	140W	Advanced Optimus, DLSS 3, Resizable BAR, Dynamic Boost 2.0, VR Ready, DirectX® 12 Ultimate
NVIDIA GeForce RTX 4060 Laptop GPU	Discrete	8GB GDDR6	2370 MHz	140W	Advanced Optimus, DLSS 3, Resizable BAR, Dynamic Boost 2.0, VR ready, DirectX 12 Ultimate
NVIDIA GeForce RTX 4070 Laptop GPU	Discrete	8GB GDDR6	2175 MHz	140W	Advanced Optimus, DLSS 3, Resizable BAR, Dynamic Boost 2.0, VR ready, DirectX 12 Ultimate

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB-C®)

- HDMI supports up to 4K@60Hz
- USB-C supports up to 4K@60Hz

Chipset

Chipset

Intel HM770 chipset

Memory

Max Memory^[1]

- Up to 32GB DDR5-4800 offering
- Up to 32GB DDR5-5600 offering

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Memory Type**

- DDR5-4800^[2]
- DDR5-5600

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.

[2] Installed memory is actually 5600MHz but may run at 4800MHz due to processor limitation.

Storage

Storage Support^[1]

Up to two drives, 2x M.2 SSD
• M.2 2280 SSD up to 1TB

Storage Slot

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type

Disk Type	Interface	Offering
M.2 2280 SSD	PCIe NVMe®, PCIe 4.0 x4	512GB / 1TB

Notes:

[1] 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

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, optimized with Nahimic Audio

Microphone

Dual-microphone array

Camera**

- HD 720p, with E-shutter, fixed focus
- FHD 1080p, with E-shutter, fixed focus

Battery

Battery

Integrated Li-Polymer 80Wh battery, supports Super Rapid Charge Pro (10min charge 0~40% capacity, 30min charge 0~80% capacity, 60min charge 0~100% capacity)

Max Battery Life^[1]

MobileMark® 2018: 5.3 hr
Local video (1080p) playback@150nits: 6.5 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, JEITA 2.0, continuous 1080p video playback (with 150nits brightness and default volume level) or Google Power Load Test (PLT) battery-life benchmark tests. Actual battery life will vary depending on many factors such as product configuration and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter**^[1]

- 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 300W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

- AI Chip: LA1
- Legion Coldfront 5.0 cooling system

DESIGN

Display

Display**^{[1][2]}

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
16"	WQXGA (2560x1600)	None	IPS	300 nits	Anti-glare	16:10	1200:1	100% sRGB	165Hz	89°/89°/89°/89°	Dolby® Vision™, NVIDIA G-SYNC®, Advanced Optimus support, TÜV Low Blue Light
16"	WQXGA (2560x1600)	None	IPS	500 nits	Anti-glare	16:10	1200:1	100% sRGB	240Hz	89°/89°/89°/89°	DisplayHDR™ 400, Dolby Vision, NVIDIA G-SYNC, Advanced Optimus support, TÜV Low Blue Light, TÜV High Gaming Performance

Color Calibration

X-Rite® factory color calibration

Touchscreen

Non-touch

Notes:

[1] California Electronic Waste Recycling Fee

In California USA, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, please go to <https://www.calrecycle.ca.gov/Electronics/Consumer>.

[2] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Keyboard

6-row, multimedia Fn keys, numeric keypad, black keycaps

Keyboard Backlight**

- 4-Zone RGB backlight
- Blue backlight
- White backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

363.4 x 260.35 x 22.45-26.75 mm (14.31 x 10.25 x 0.88-1.05 inches)

Weight^[2]

Less than 2.55 kg (5.6 lbs)

Case Color

Onyx grey

Surface Treatment**

- Anodize electrophoresis deposition
- Anodizing

Case Material

Aluminium (top), PC-ABS (bottom)

System Lighting

No system 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

Ethernet

Gigabit Ethernet, 1x RJ-45

WLAN + Bluetooth®**[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card^[2]
- Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card^[3]

Notes:

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[2] Wi-Fi 6 full features might be limited by country-level restrictions.

[3] Wi-Fi 6E full features might be limited by country-level restrictions.

6GHz Wi-Fi 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi 6E, and the regional regulatory certifications & spectrum allocation.

Ports^[1]

Standard Ports

- 3x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer and DisplayPort™ 1.4)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 140W and DisplayPort 1.4)
- 1x HDMI 2.1, up to 8K/60Hz
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector

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.

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

Fingerprint Reader

No fingerprint reader

BIOS Security

- Administrator password
- Power-on password
- Hard disk password
- Self-healing BIOS

Other Security

E-shutter

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 1-year courier or carry-in with 2-year system board service (Korea only)
- 2-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) courier or carry-in service

ENVIRONMENTAL

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)

Altitude

Maximum altitude (without pressurization): 3048 m (10,000 ft)

Notes:

[1] When you charge the battery, its temperature must be no lower than 10°C (50°F).

ACCESSORIES

Bundled Accessories

Bundled Accessories

- Lenovo Legion™ M300 RGB Gaming Mouse (USB connector)
- None

CERTIFICATIONS

Green Certifications^[1]

Green Certifications

- 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.

Other Certifications

Other Certifications

- (Optional) TÜV Rheinland® High Gaming Performance
- TÜV Rheinland Low Blue Light (Hardware Solution)

- Feature with ** means that only one offering listed under the feature is configured on selected models.
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