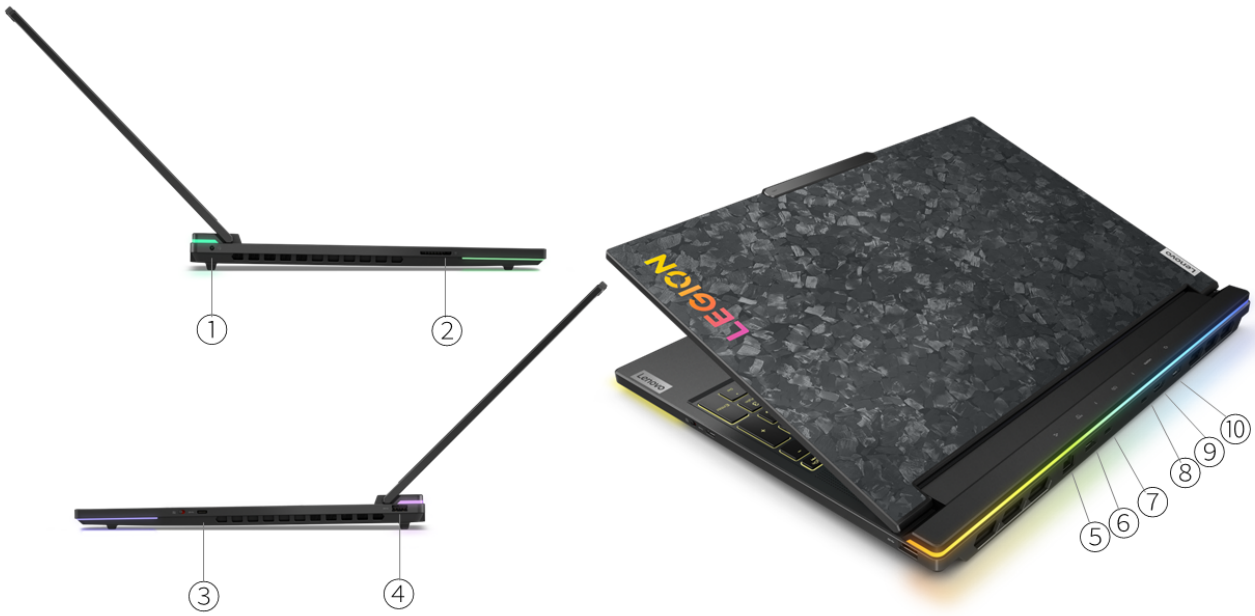
OVERVIEW



1. Headphone / microphone combo jack (3.5mm)	6. USB 3.2 Gen 1 (Always On)
2. Card reader	7. Thunderbolt 4
3. USB-C 3.2 Gen 1 (data transfer only)	8. Thunderbolt 4
4. USB 3.2 Gen 1	9. HDMI
5. 2.5GbE (RJ-45)	10. Power connector

PERFORMANCE

Processor

Processor Family

13th Generation Intel® Core™ i9 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i9-13980HX	24 (8 P-core + 16 E-core)	32	P-core 2.2GHz / E-core 1.6GHz	P-core 5.6GHz / E-core 4.0GHz	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™ 4080 Laptop GPU	Discrete	12GB GDDR6	2280 MHz	175W	Advanced Optimus, DLSS 3, Resizable BAR, Dynamic Boost 2.0, VR ready, DirectX® 12 Ultimate
NVIDIA GeForce RTX 4090 Laptop GPU	Discrete	16GB GDDR6	2040 MHz	175W	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 7680x4320@60Hz
• Thunderbolt™ supports up to 7680x4320@60Hz

Chipset

Chipset

Intel HM770 chipset

Memory

Max Memory[1][2]

- Up to 32GB DDR5-5600 offering
- Up to 64GB DDR5-5600 offering
- Up to 32GB DDR5-6400 (overclock) offering

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Memory Type[**]

- DDR5-5600
- DDR5-6400 (overclock)

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] When you update memory capacity, please contact with Lenovo Service to replace the memory.

Storage

Storage Support[1]

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

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	1TB / 2TB

RAID

- RAID 0 support
- No support

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

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers (super linear speaker), 2W x2, audio by HARMAN, optimized with Nahimic Audio, Smart Amplifier (AMP)

Microphone

Dual-microphone array

Camera

FHD 1080p, with E-shutter, fixed focus

Battery

Battery

Integrated Li-Polymer 99.9Wh battery, supports Super Rapid Charge (10min charge 0~30% capacity, 30min charge 0~70% capacity, 80min charge 0~100% capacity)

Max Battery Life[1]

MobileMark® 2018: 5.37 hr
Local video (1080p) playback@150nits: 8 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**

- (Optional) 140W USB-C slim (3-pin) AC adapter, 100-240V, 50-60Hz
- 330W slim tip tiny GaN (3-pin) AC adapter, 100-240V, 50-60Hz

Special Features

Special Features

- AI Chip: LA2
- Hybrid thermal solution (liquid cooling + air cooling + liquid metal)

DESIGN

Display

Display[1]

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
16″	3.2K (3200x2000)	None	Mini LED	1200 nits	Anti-glare	16:10	1000000:1	100% DCI-P3, 100% Adobe® RGB, 100% sRGB	165Hz	89°/89°/89°/89°	Dolby® Vison, DisplayHDR™ 1000, NVIDIA G-SYNC®, Advanced Optimus support, TÜV Low Blue Light

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.

Input Device

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, 8 switchable keycaps

Keyboard Backlight

Per-key RGB backlight

Touchpad

Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP), 58 x 120 mm (2.28 x 4.72 inches)

Mechanical

Dimensions (WxDxH)[1]

357.7 x 277.7 x 18.9 mm (14.08 x 10.93 x 0.74 inches)

Weight[2]

Around 2.56 kg (5.64 lbs)

Case Color

Carbon black

Surface Treatment

Forged carbon with soft painted

Case Material

Aluminium (top), magnesium-aluminium (bottom)

System Lighting

Legion logo RGB lighting on top cover
RGB lighting on power button
"U" strip RGB lighting
Hinge cap 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

2.5GbE, Intel Killer Ethernet E3100G 2.5 Gbps, 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**[1]

- Intel Killer Wi-Fi® 6E AX1675i, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- MediaTek Wi-Fi 7 MT7927, 802.11be 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

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Notes:

[1] Bluetooth 5.3 is hardware ready but may run at a lower version due to OS limitations.

Ports[1]

Standard Ports

- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 140W and DisplayPort™ 1.4)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer only)
- 1x HDMI 2.1, up to 8K/60Hz
- 1x Card reader
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector
- 1x Ethernet (2.5GbE RJ-45)

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

Touch style fingerprint reader integrated in power button

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

8 switchable keycaps

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

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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