

## OVERVIEW



1. Card reader	5. USB-C (USB4 40Gbps), with USB PD 65-100W & DP 2.1
2. USB-A (USB 5Gbps)	6. Headphone / microphone combo jack (3.5mm)
3. USB-A (USB 5Gbps), Always On	7. HDMI
4. USB-C (USB4 40Gbps), with USB PD 65-140W & DP 2.1	8. Power connector

## PERFORMANCE

### Processor

#### Processor Family

AMD Ryzen™ AI 400 Series Processor

#### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
AMD Ryzen™ AI 7 450	8	16	2.0GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 860M	AMD Ryzen™ AI, up to 50 TOPS	Up to 66 TOPS
AMD Ryzen™ AI 9 HX 470	12	24	2.0GHz	5.2GHz	12MB L2 / 24MB L3	AMD Radeon™ 890M	AMD Ryzen™ AI, up to 55 TOPS	Up to 86 TOPS

### AI (Artificial Intelligence)

#### AI PC Category

AI-Powered Gaming PC<sup>[1]</sup>

#### NPU

Integrated AMD Ryzen™ AI, up to 55 TOPS

Notes:

[1] AI-Powered Gaming PCs feature Lenovo® AI Engine+ and NVIDIA® GeForce RTX™ GPUs to handle AI-driven tasks and deliver exceptional gaming performance.

### Operating System

#### Operating System\*\*

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

### Graphics

#### Graphics\*\*

Graphics	Type	Memory	Boost Clock	TGP	AI TOPS (Peak)	Key Features
NVIDIA® GeForce RTX™ 5060 Laptop GPU	Discrete	8GB GDDR7	2497 MHz	115W	572 TOPS	DLSS 4, DirectX® 12 Ultimate
NVIDIA® GeForce RTX™ 5070 Laptop GPU	Discrete	12GB GDDR7	2347 MHz	115W	798 TOPS	DLSS 4, DirectX® 12 Ultimate

### Monitor Support

#### Monitor Support<sup>[1]</sup>

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

- HDMI® supports up to 8K@60Hz
- USB-C® supports up to 8K@60Hz

Notes:

[1] For Max resolution, DSC-enabled display is required.

### Chipset

#### Chipset

AMD SoC (System on Chip) platform

### Memory

#### Max Memory

- 32GB soldered memory, not upgradable

- 64GB soldered memory, not upgradable

**Memory Slots**

Memory soldered to systemboard, no slots

**Memory Type\*\***

- LPDDR5X-8000
- LPDDR5X-8533

**Storage**

**Max Storage Support<sup>[1]</sup>**

Up to two drives, 2x M.2 SSD  
• M.2 2242 SSD up to 1TB each

**Storage Slot<sup>[2]</sup>**

Two M.2 slots  
• One M.2 2242 PCIe® 4.0 x4 slot  
• One M.2 2280 PCIe® 4.0 x2 slot

**Storage Type**

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	1TB

Notes:

- [1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
- [2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.  
PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);  
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);  
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

**Removable Storage**

**Card Reader**

SD card reader

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3306 codec

**Speakers**

4 stereo speakers, 2W x2 (woofers), 2W x2 (tweeters), audio by HARMAN, optimized with Nahimic Audio, Smart Amplifier (AMP)

**Microphone**

Dual-microphone array

**Camera**

5.0MP + IR, with E-shutter, fixed focus

**Battery**

**Battery**

84Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)

**Max Battery Life<sup>[1]</sup>**

MobileMark® 30@250nits: 12.8 hr  
Local video (1080p) playback@150nits: 14.8 hr

Notes:

- [1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, JEITA 3.0, 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

- 245W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- No power adapter

## Special Features

### Special Features

AI Chip: LA1 + LA4

## DESIGN

## Display

### Display

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)	Non-touch	OLED	1100nits (HDR peak) / 500nits (SDR typical)	Glossy	16:10	1,000,000:1	100% DCI-P3	240Hz	89° / 89° / 89° / 89°	DisplayHDR™ True Black 1000, NVIDIA® G-SYNC®, Advanced Optimus support, TÜV Rheinland® Low Blue Light, TÜV Rheinland® High Gaming Performance, TÜV Rheinland® Flicker Free

### Touchscreen

Non-touch

### Screen-to-Body Ratio

91.78% AAR (active area ratio)

### Color Calibration

X-Rite® factory color calibration

## Input Device

### Pen

No support

### Keyboard

6-row, multimedia Fn keys, numeric keypad, Copilot key, key travel 1.6mm, cap recess 0.3mm

### Keyboard Backlight

24-Zone RGB backlight

### Touchpad

Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)

## Mechanical

### Dimensions (WxDxH)<sup>[1]</sup>

361.35 x 254.16 x 15.5-16.9 mm (14.23 x 10.01 x 0.61-0.67 inches)

### Weight<sup>[2]</sup>

Less than 1.8 kg (3.97 lbs)

### Case Color\*\*

- Glacier white

- Nebula

**Case Material**

Aluminium (top), aluminium (bottom)

**Surface Treatment\*\***

- Anodize electrophoresis deposition
- Anodizing

**System Lighting**

RGB lighting on power button

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<sup>[1]</sup>**

Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card

**WWAN**

No support

**Ethernet**

No onboard Ethernet

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

**Standard Ports<sup>[1]</sup>**

- 1x USB-A (USB 5Gbps), Always On
- 1x USB-A (USB 5Gbps)
- 1x USB-C® (USB4® 40Gbps), with USB PD 65-140W and DisplayPort™ 2.1
- 1x USB-C® (USB4® 40Gbps), with USB PD 65-100W and DisplayPort™ 2.1<sup>[2]</sup>
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Card reader
- 1x Slim tip Power connector

Notes:

[1] The transfer speed of the 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 the theoretical speed.

[2] Supports Lenovo® protocol for 140W charging but requires a unique Lenovo® adapter for operation.

### Docking

**Docking**

Various docking solutions supported via USB-C®.

For more compatible docking solutions, please visit [Docking for Legion 7 16AGP11](#)

## SECURITY & PRIVACY

### Security

**Security Chip**

Firmware TPM 2.0 integrated in SoC

### Fingerprint Reader

No fingerprint reader

### BIOS Security

- Administrator password
- Hard disk password
- Master hard disk password
- Power-on password
- User hard disk password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)

### Other Security

- E-shutter
- IR camera for Windows® Hello (facial recognition)

## SERVICE

### Warranty

#### Base Warranty\*\*

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) courier or carry-in service

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories<sup>[1]</sup>

- Anti-Reflection screen protector
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for Legion 7 16AGP11](#).

## OPERATING REQUIREMENTS

### Operating Environment

#### Temperature<sup>[1]</sup>

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)

#### Relative 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).

## CERTIFICATIONS

### Green Certifications<sup>[1]</sup>

#### Green Certifications<sup>[2]</sup>

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered
- ErP Lot 6/26
- RoHS compliant

---

**Notes:**

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit <https://compliance.lenovo.com>.

[2] EPEAT™ registration and ENERGY STAR® certification are optional and only available on the models with preloaded OS. Please visit [epeat.net](https://epeat.net) and [energystar.gov](https://energystar.gov) for more information.

## Other Certifications

### Other Certifications

- Pantone® SkinTone™ Validated
- Pantone® Validated
- TÜV Rheinland® Flicker Free
- TÜV Rheinland® High Gaming Performance
- TÜV Rheinland® Low Blue Light (Hardware Solution)

- 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.
- Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION "AS IS", WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.
- The specifications on this page may not be available in all regions, and may be changed or updated without notice.



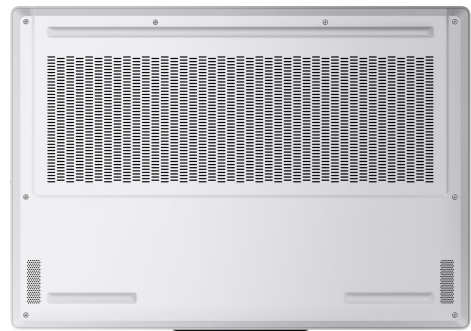
AMD



AMD



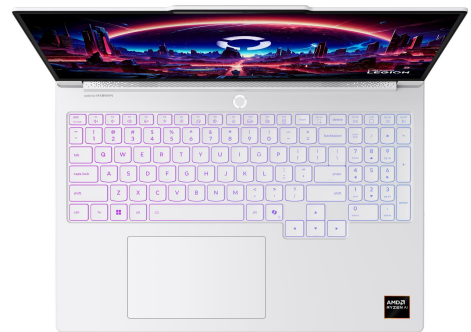
AMD



AMD



AMD



AMD