OVERVIEW



1. USB-A (USB 5Gbps)	5. HDMI
2. USB-A (USB 5Gbps)	6. Ethernet (RJ-45)
3. Headphone / microphone combo jack (3.5mm)	7. USB-A (USB 10Gbps)
4. USB-C (USB4 40Gbps), with USB PD 65-100W & DP 1.4	8. Slim tip (rectangle) power connector

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 200 Series Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
AMD Ryzen™ 5 216	6	12	2.9GHz	4.7GHz	6MB L2 / 16MB L3	AMD Radeon™ 740M	-	-
AMD Ryzen™ 7 217	6	12	3.0GHz	4.8GHz	6MB L2 / 16MB L3	AMD Radeon™ 740M	-	-
AMD Ryzen™ 7 250	8	16	3.3GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 780M	AMD Ryzen™ AI, up to 16 TOPS	Up to 38 TOPS
AMD Ryzen™ 7 253	8	16	3.6GHz	4.9GHz	8MB L2 / 16MB L3	AMD Radeon™ 780M	AMD Ryzen™ AI, up to 16 TOPS	-

AI (Artificial Intelligence)

AI PC Category***

- AI-Powered Gaming PC[1]
- AI PC[2]

NPU

Integrated AMD Ryzen™ AI, up to 16 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.

[2] AI PCs have a Neural Processing Unit (NPU) designed to accelerate artificial intelligence and machine learning workloads on the device.

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™ 5050 Laptop GPU	Discrete	8GB GDDR7	2662 MHz	115W	440 TOPS	DLSS 4, DirectX® 12 Ultimate
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	8GB GDDR7	2347 MHz	115W	798 TOPS	DLSS 4, DirectX® 12 Ultimate

Monitor Support

Monitor Support

Supports up to 3 independent displays (native display and 2 external monitors via HDMI®, USB-C®)
• HDMI® supports up to 8K@60Hz
• USB-C® supports up to 4K@120Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory[1]

Up to 32GB DDR5-5600 offering

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Max Storage Support[1][2]

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

Storage Slot[3][4]

Two M.2 slots
• One M.2 2280 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	512GB / 1TB / 2TB

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
[2] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.
[3] 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).
[4] Due to platform limitations, the 1st SSD slot supports PCIE 4.0 x4 Lanes, while the 2nd SSD slot supports PCIE 4.0 x2 Lanes.

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, optimized with Nahimic Audio

Microphone

Dual-microphone array

Camera

5.0MP, with E-shutter, fixed focus

Battery

Battery

60Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)

Max Battery Life[1]

MobileMark® 30@250nits: 8.5 hr
Local video (1080p) playback@150nits: 13.9 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

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
15.3"	WUXGA (1920x1200)	Non-touch	IPS[1]	300nits	Anti-glare	16:10	1000:1	100% sRGB	165Hz	89° / 89° / 89° / 89°	AMD FreeSync™, NVIDIA® G-SYNC®, Advanced Optimus, TÜV Rheinland® Low Blue Light
15.3"	WQXGA (2560x1600)	Non-touch	IPS[2]	400nits	Anti-glare	16:10	1200:1	100% sRGB	180Hz	89° / 89° / 89° / 89°	NVIDIA® G-SYNC®, AMD FreeSync™, Advanced Optimus, TÜV Rheinland® Low Blue Light

Touchscreen

Non-touch

Screen-to-Body Ratio

92% AAR (active area ratio)

Color Calibration

X-Rite® factory color calibration

Notes:

[1], [2] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Pen

No support

Keyboard

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

Keyboard Backlight**

- 1-Zone RGB backlight
- 24-Zone RGB backlight

Touchpad

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

Mechanical

Dimensions (WxDxH)[1][2]

344.9 x 254.83 x 20.9-23.25 mm (13.58 x 10.03 x 0.82-0.92 inches)

Weight[3]

Starting at 2.1 kg (4.6 lbs)

Case Color**

- Eclipse black
- Luna grey
- Surge green

Case Material

PC-ABS (top), PC-ABS (bottom)

Surface Treatment

Painting

System Lighting

No system lighting

Notes:

[1] The system dimensions may vary depending on configurations.

[2] The height does not include the bump 1.7mm.

[3] 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® 5.3, M.2 card

WWAN

No support

Ethernet

Gigabit 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]

Standard Ports

- 2x USB-A (USB 5Gbps), with 4.5W output
- 1x USB-A (USB 10Gbps), with 4.5W output
- 1x USB-C® (USB4® 40Gbps), with USB PD 65-100W input / 15W output and DisplayPort™ 1.4[2]
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)

- 1x Slim tip (rectangle) 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 theoretical speed.

[2] Support Lenovo® protocol on 140W (20V/7A) 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 LOQ™ 15AHP11

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

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
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories[1]

- Lenovo Legion™ M220 Wireless RGB Gaming Mouse
- None

Notes:

[1] For more compatible accessory solutions, please visit Accessories for LOQ™ 15AHP11.

OPERATING REQUIREMENTS

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)

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[1]

Green Certifications[2]

- ENERGY STAR® 9.0
- EPEAT 1.0 Silver 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 and energystar.gov for more information.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

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.
- 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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