

OVERVIEW



|                                                     |                      |
|-----------------------------------------------------|----------------------|
| 1. USB-C (USB 10Gbps), with USB PD 65-100W & DP 1.4 | 5. HDMI              |
| 2. Headphone / microphone combo jack (3.5mm)        | 6. Ethernet (RJ-45)  |
| 3. USB-A (USB 5Gbps)                                | 7. USB-A (USB 5Gbps) |
| 4. USB-A (USB 5Gbps)                                | 8. 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™ 5 220 | 6     | 12      | 3.2GHz         | 4.9GHz        | 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 |

### AI (Artificial Intelligence)

#### AI PC Category

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

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

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] Only for the models with AMD Ryzen™ 7 250 processor.

### 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    | 100W | 440 TOPS       | DLSS 4, DirectX® 12 Ultimate |
| NVIDIA® GeForce RTX™ 5060 Laptop GPU | Discrete | 8GB GDDR7 | 2497 MHz    | 100W | 572 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 5K@60Hz

### Chipset

#### Chipset

AMD SoC (System on Chip) platform

### Memory

#### Max Memory<sup>[1]</sup>

Up to 32GB DDR5-5600 offering

#### Memory Slots

Two DDR5 SO-DIMM 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<sup>[1][2]</sup>

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

Storage Slot<sup>[3]</sup>

Two M.2 2280 PCIe® 4.0 x4 slots<sup>[4]</sup>

Storage Type

| Disk Type    | Interface                 | Offering    |
|--------------|---------------------------|-------------|
| M.2 2242 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.  
[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] 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\*\*

- HD 720p, with E-shutter, fixed focus
- 5.0MP, with E-shutter, fixed focus

Battery

Battery

- 60Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 80Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)

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

- Models with 60Wh battery:  
MobileMark® 30@250nits: 4.4 hr  
Local video (1080p) playback@150nits: 10.4 hr
- Models with 80Wh battery:  
MobileMark® 25@250nits: 6.5 hr  
Local video (1080p) playback@150nits: 12 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\*\*[1]
- 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
  - 245W 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

DESIGN

Display

| Size  | Resolution       | Touch     | Type   | Brightness | Surface    | Aspect Ratio | Contrast Ratio | Color Gamut | Refresh Rate | Viewing Angle (L/R/U/D) | Key Features                                         |
|-------|------------------|-----------|--------|------------|------------|--------------|----------------|-------------|--------------|-------------------------|------------------------------------------------------|
| 15.6" | FHD (1920x1080)  | Non-touch | IPS[1] | 300nits    | Anti-glare | 16:9         | 1000:1         | 100% sRGB   | 144Hz        | 85° / 85° / 85° / 85°   | NVIDIA® G-SYNC®, Advanced Optimus support            |
| 15.6" | WQHD (2560x1440) | Non-touch | IPS[2] | 350nits    | Anti-glare | 16:9         | 1000:1         | 100% sRGB   | 165Hz        | 85° / 85° / 85° / 85°   | 3ms response time, Advanced Optimus, NVIDIA® G-SYNC® |

Touchscreen

Non-touch

Screen-to-Body Ratio

88% AAR (active area ratio)

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 1.5mm, cap recess 0.3mm, Copilot key

Keyboard Backlight\*\*

- 24-Zone RGB backlight
- White 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)<sup>[1]</sup>

359.86 x 258.7 x 21.9-23.9 mm (14.17 x 10.19 x 0.86-0.94 inches)

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

Starting at 2.4 kg (5.29 lbs)

### Case Color

Luna grey

### Case Material

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

### Surface Treatment

Painting

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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® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card<sup>[2]</sup>

#### WWAN

No support

#### Ethernet

Gigabit Ethernet, 1x RJ-45

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Notes:

[1] Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Wi-Fi® 6 operation is subject to the regulation rules in each country.

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

#### Standard Ports

- 3x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 65-100W and DisplayPort™ 1.4<sup>[2]</sup>
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x Power connector

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

## Docking

### Docking

Various docking solutions supported via or USB-C®.  
For more compatible docking solutions, please visit

[Docking for LOQ™ 15AHP10](#)

## 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

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories

- Lenovo® LOQ™ M100 RGB Mouse (USB connector)
- None

## 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**

- 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>.

**Other Certifications****Other Certifications**

TÜV Rheinland® Low Blue Light (Software 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.
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