

OVERVIEW



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| 1. USB4 40Gbps (data transfer / DP1.4 only) | 6. HDMI |
| 2. USB-C 3.2 Gen 2 (data transfer / DP 1.4 only) | 7. USB-C 3.2 Gen 2 |
| 3. Power connector | 8. Ethernet (RJ-45) |
| 4. USB 3.2 Gen 1 (Always On) | 9. Headphone / microphone combo jack (3.5mm) |
| 5. USB 3.2 Gen 1 | 10. USB-C 3.2 Gen 1 (data transfer only) |

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 7 / 9 Processor

Processor

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|--------------------|-------|---------|----------------|---------------|------------------|----------------|---------------------------|
| AMD Ryzen 7 6800H | 8 | 16 | 3.2GHz | 4.7GHz | 4MB L2 / 16MB L3 | DDR5-4800 | AMD Radeon™ 680M Graphics |
| AMD Ryzen 9 6900HX | 8 | 16 | 3.3GHz | 4.9GHz | 4MB L2 / 16MB L3 | DDR5-4800 | AMD Radeon 680M Graphics |

Operating System

Operating System

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 Home 64 Single Language
- No operating system

Graphics

Graphics

| Graphics | Type | Memory | Key Features |
|------------------------|----------|------------|--|
| AMD Radeon RX 6700M | Discrete | 10GB GDDR6 | AMD Smart Access Memory, AMD SmartShift Technology, DirectX® 12 Ultimate |
| AMD Radeon RX 6850M XT | Discrete | 12GB GDDR6 | AMD Smart Access Memory, AMD SmartShift Technology, DirectX 12 Ultimate |

Monitor Support

Monitor Support^[1]

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

- HDMI supports up to 7680x4320@60Hz
- USB-C supports up to 7680x4320@30Hz

Notes:

1. For Max resolution, DSC-enabled display is required. Three external output display devices cannot be supported at the same time when displaying 8K resolution.

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 32GB DDR5-4800 offering

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Memory Type

DDR5-4800

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.

Storage

Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB

Storage Slot

Two M.2 slots

- Two M.2 2280 PCIe® Gen 4x4 slots, support M.2 2280 SSD

Storage Type

| Disk Type | Interface | Offering |
|--------------|-------------------------|-------------------|
| M.2 2280 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. 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® ALC3287 codec

Speakers

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

Microphone

Dual array microphone

Camera

FHD 1080p, with E-camera shutter, fixed focus

Sensor

Sensors

Force sensor

Battery

Battery

Integrated Li-Polymer 99.99Wh battery, supports Rapid Charge Pro (charge up to 50% in 15min, 70% in 30min)

Max Battery Life^[1]

MobileMark® 2018: 10 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, 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 and depends 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.

DESIGN

Display

Display^[1]

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Key Features |
|-------|-------------------|-------|------|------------|------------|--------------|----------------|-------------|---------------|--|
| 16.0" | WQXGA (2560x1600) | None | IPS | 500 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 178° | Refresh rate 165Hz, Dolby® Vision™, DisplayHDR™ 400, AMD FreeSync™, DC dimmer, TÜV Low Blue Light, TÜV High Gaming Performance |
| 16.0" | WQXGA (2560x1600) | None | IPS | 500 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 178° | Refresh rate 240Hz, Dolby Vision, AMD FreeSync, DC dimmer, Advanced Optimus, TÜV Low Blue Light, TÜV High Gaming Performance |

Color Calibration

X-Rite® Pantone® factory color calibration

Touchscreen

Non-touch

Notes:

1. California Electronic Waste Recycling Fee
- In California, 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, go to <https://www.calrecycle.ca.gov/Electronics/Consumer>

Input Device

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, Force sensor, switchable keycaps, easy tool inbox

Keyboard Backlight

RGB backlight

Touchpad

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

Mechanical^[1]

Dimensions (WxDxH)

358.1 x 263.5 x 19.4 mm (14.1 x 10.37 x 0.76 inches)

Weight

Around 2.53 kg (5.58 lbs)

Case Color

Storm grey

Surface Treatment

Iron sandblasting (anodized)

Case Material

Aluminium (top), aluminium (bottom)

System Lighting

- "Y" logo RGB lighting on top cover
- RGB lighting on power button
- "U" strip RGB lighting
- RGB lighting on left, right, and rear thermal vent

Notes:

1. The system dimensions and weight vary depending on configurations.

CONNECTIVITY

Network

Ethernet

2.5GbE, Realtek RTL8125BG Gaming Ethernet, 1x RJ-45

WLAN + Bluetooth^[1]

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

Notes:

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

Ports^[1]

Standard Ports

- 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 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 135W and DisplayPort 1.4)
- 1x USB4® 40Gbps (support data transfer and DisplayPort 1.4)
- 1x HDMI, 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;
USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
Thunderbolt™ 3/4: 40 Gbit/s

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Fingerprint Reader

Touch style fingerprint reader on power button

BIOS Security

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

Other Security

E-Camera shutter

SERVICE

Warranty

Base Warranty^[1]

- 1-year depot service
- 1-year depot with 2-year system board service (Korea only)
- 2-year (1-yr battery) depot service
- 3-year (1-yr battery) depot service

Notes:

1. More information of warranty policy, please access <https://pcsupport.lenovo.com/warranty>

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)

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

Green Certifications

- ErP Lot 3
- RoHS compliant

Other Certifications

Other Certifications

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

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