

OVERVIEW



| | |
|----------------------------------------------|----------------------------------------------|
| 1. USB-C 2.0 (data transfer / PD 3.0 only) * | 5. Headphone / microphone combo jack (3.5mm) |
| 2. Power connector * | 6. Card reader |
| 3. HDMI 1.4b | 7. USB 3.2 Gen 1 |
| 4. USB-C 3.2 Gen 2 | 8. USB 3.2 Gen 1 (Always On) |

Notes:

- Ports with * are only available on selected models
- Port 1 (not shown on the sample product above) is mutually exclusive with Port 2

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 / 9 Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|--------------------|-------|---------|----------------|---------------|------------------|----------------|----------------------|
| AMD Ryzen 5 5600H | 6 | 12 | 3.3GHz | 4.2GHz | 3MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen 7 5800H | 8 | 16 | 3.2GHz | 4.4GHz | 4MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon Graphics |
| AMD Ryzen 9 5900HX | 8 | 16 | 3.3GHz | 4.6GHz | 4MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon Graphics |

Operating System

Operating System**

- Windows® 10 Pro 64
- Windows 10 Home 64
- Windows 11 Pro 64
- Windows 11 Home 64
- No operating system

Graphics

Graphics**

| Graphics | Type | Memory | Boost Clock | TGP | Key Features |
|-------------------------------------|------------|-----------|--------------------|---------------|----------------------------------------------------------------|
| AMD Radeon Graphics | Integrated | Shared | - | Share CPU TDP | DirectX® 12 |
| NVIDIA® GeForce® GTX 1650 | Discrete | 4GB GDDR6 | - | - | DirectX 12 |
| NVIDIA GeForce RTX™ 3050 Laptop GPU | Discrete | 4GB GDDR6 | 712 MHz / 1057 MHz | 55W | Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, DirectX 12 |

Monitor Support

Monitor Support

Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via HDMI® (up to 3840x2160@30Hz) or USB-C (up to 5120x2880@60Hz)

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

DDR4-3200

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

One drive, up to 512GB M.2 2242 SSD or 1TB M.2 2280 SSD

Storage Type

| Disk Type | Interface |
|--------------|------------------------|
| M.2 2280 SSD | PCIe NVMe, PCIe 3.0 x4 |

Removable Storage

Optical

None

Card Reader

4-in-1 card reader (SD, SDHC, SDXC, MMC)

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, optimized with Dolby® Atmos®

Microphone

Dual array microphone

Camera

IR & 720p hybrid, with ToF sensor, fixed focus

Battery

Battery

Integrated Li-Polymer 75Wh battery, supports Rapid Charge Express (get 3 hours of runtime with a 15-minute charge)

Max Battery Life^[1]

- MobileMark® 2018: 13 hr (integrated graphics model)
- MobileMark 2018: 10 hr (discrete graphics model)

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**

- 95W USB-C (3-pin) AC adapter
- 135W slim tip (3-pin) AC adapter

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 | 350 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 170° | Refresh rate 60Hz |
| 16.0" | WQXGA (2560x1600) | None | IPS | 350 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 170° | Refresh rate 120Hz |

Touchscreen

Non-touch

Notes:

- 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, multimedia Fn keys, numeric keypad

Keyboard Backlight

LED backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP)

Mechanical**Dimensions (WxDxH)**

| Models | Dimensions |
|------------|------------------------------------------------------------|
| All models | 356 x 251 x 16.9-18.4 mm (14.02 x 9.88 x 0.67-0.72 inches) |

Weight^[1]

| Models | Weight |
|------------|-------------------|
| All models | 1.9 kg (4.19 lbs) |

Case Color**

- Cloud grey
- Storm grey

Surface Treatment

Aluminium anodizing stamping

Case Material

Aluminium (top), aluminium (bottom)

Notes:

- The system weight varies depending on configurations

CONNECTIVITY**Network****Onboard Ethernet**

No Ethernet

WLAN + Bluetooth®**

- 802.11ac 2x2 Wi-Fi® + Bluetooth 5.1, M.2 Card
- Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

Ports^[1]**Standard Ports**

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x HDMI 1.4b
- 1x Card reader
- 1x Headphone / microphone combo jack (3.5mm)

Optional Ports**

- 1x USB-C 2.0 (support data transfer and Power Delivery 3.0, model with integrated graphics)

- 1x Power connector (model with discrete graphics)

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: 40 Gbit/s;

FireWire 400: 400 Mbit/s;

FireWire 800: 800 Mbit/s

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

Fingerprint Reader

No fingerprint reader

BIOS Security

- Administrator password
- Power-on password
- Hard disk password

Other Security

IR camera for Windows Hello

SERVICE

Warranty

Base Warranty**

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

CERTIFICATIONS

Green Certifications

Green Certifications

- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

Other Certifications

Other Certifications

- TÜV Rheinland® Eyesafe® Display
- 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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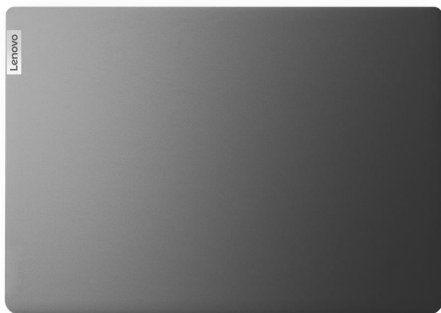
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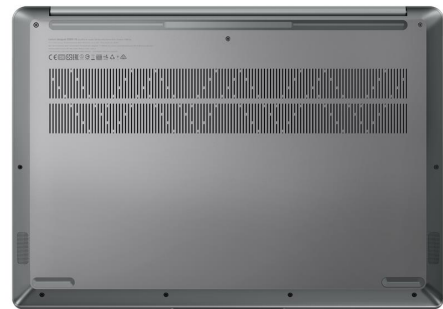
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