

**OVERVIEW**



|                              |  |
|------------------------------|--|
| 1. Power button              | 3. Headphone / microphone combo jack (3.5mm) |
| 2. USB 3.2 Gen 1 (Always On) | 4. 2x USB-C 3.2 Gen 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 5600HS Creator Edition | 6     | 12      | 3.3GHz         | 4.2GHz        | 3MB L2 / 16MB L3 | LPDDR4x-4266   | AMD Radeon™ Graphics |
| AMD Ryzen 7 5800HS Creator Edition | 8     | 16      | 3.2GHz         | 4.4GHz        | 4MB L2 / 16MB L3 | LPDDR4x-4266   | AMD Radeon Graphics  |
| AMD Ryzen 9 5900HS Creator Edition | 8     | 16      | 3.3GHz         | 4.6GHz        | 4MB L2 / 16MB L3 | LPDDR4x-4266   | AMD Radeon Graphics  |

### Operating System

#### Operating System\*\*

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

### Graphics

#### Graphics

| Graphics              | Type     | Memory    | Key Features |
|-----------------------|----------|-----------|--------------|
| NVIDIA® GeForce MX450 | Discrete | 2GB GDDR6 | DirectX® 12  |

### Monitor Support

#### Monitor Support

Supports up to 3 independent displays (native display and 2 external monitors via USB-C®)

- USB-C supports up to 3840x2160@60Hz

### Chipset

#### Chipset

AMD SoC (System on Chip) platform

### Memory

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

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

#### Memory Slots

Memory soldered to systemboard, no slots, dual-channel

#### Memory Type

LPDDR4x-4266

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

One drive, up to 1TB M.2 2280 SSD

#### Storage Type

| Disk Type    | Interface                | Offering    |
|--------------|--------------------------|-------------|
| M.2 2280 SSD | PCIe® NVMe®, PCIe 3.0 x4 | 512GB / 1TB |

**Notes:**

- 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

**Optical**

None

**Card Reader**

No card reader

## Multi-Media

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3306 codec

**Speakers**

Stereo speakers, 2W x2, optimized with Dolby® Atmos®, audio by Harman

**Microphone**

Dual-microphone array

**Camera**

HD 720p + IR, fixed focus, with ToF sensor

## Sensor

**Sensors**

- Ambient light sensor (ALS)
- Hall sensor
- ToF sensor

## Battery

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

Integrated Li-Polymer 61Wh battery, supports Rapid Charge Express (get 3 hours of runtime with a 15-minute charge)

**Max Battery Life<sup>[2]</sup>**

MobileMark® 2018@200nits: 9.4 hr

Local video (1080p) playback@150nits: 15.4 hr

**Notes:**

- Rapid Charge Express is only affected as hibernates or fully shut down the computer.
- 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<sup>[1]</sup>**

95W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

**Notes:**

- AC adapter offerings depend on the country.

## DESIGN

### Display

**Display<sup>\*[1][2]</sup>**

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect | Contrast | Color | Viewing | Key Features |
|------|------------|-------|------|------------|---------|--------|----------|-------|---------|--------------|
|------|------------|-------|------|------------|---------|--------|----------|-------|---------|--------------|

|     |                     |      |     |          |            | Ratio | Ratio  | Gamut     | Angle |                                       |
|-----|---------------------|------|-----|----------|------------|-------|--------|-----------|-------|---------------------------------------|
| 14" | 2.2K<br>(2240x1400) | None | IPS | 300 nits | Anti-glare | 16:10 | 1500:1 | 100% sRGB | 170°  | Dolby Vision™                         |
| 14" | 2.8K<br>(2880x1800) | None | IPS | 400 nits | Glossy     | 16:10 | 1500:1 | 100% sRGB | 160°  | Refresh rate 90Hz (MAX), Dolby Vision |
| 14" | 2.8K<br>(2880x1800) | None | IPS | 400 nits | Anti-glare | 16:10 | 1500:1 | 100% sRGB | 160°  | Refresh rate 90Hz (MAX), Dolby Vision |

**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>
- 90Hz adaptive refresh rate is available on select models only

**Input Device****Keyboard**

6-row, multimedia Fn keys

**Keyboard Backlight**

LED backlight

**Touchpad**

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

**Mechanical<sup>[1]</sup>****Dimensions (WxDxH)**

312.4 x 221.4 x 14.6 mm (12.29 x 8.72 x 0.57 inches)

**Weight**

| Models                           | Weight                   |
|----------------------------------|--------------------------|
| Models with glass display cover  | Around 1.4 kg (3.09 lbs) |
| Models with Mylar® display cover | Around 1.3 kg (2.87 lbs) |

**Case Color\*\***

- Light silver
- Slate grey

**Surface Treatment**

Anodizing sandblasting

**Case Material**

Aluminium (top), glass or Mylar (display cover), aluminium (bottom)

**Notes:**

- The system dimensions and weight vary depending on configurations.

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

No onboard Ethernet

**WLAN + Bluetooth<sup>[1]</sup>**

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

**Notes:**

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

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

## Standard Ports

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

### 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

No fingerprint reader

#### BIOS Security

- Administrator password
- User password
- Master hard disk password
- User hard disk password

#### Other Security

IR camera for Windows Hello

## 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

## ENVIRONMENTAL

### 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)
- 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

- Eyesafe® Certified
- 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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