

## OVERVIEW



|                     |  |
|---------------------|--|
| 1. Card reader      | 6. HDMI 2.1                                      |
| 2. USB 3.2 Gen 1    | 7. USB 3.2 Gen 1 (Always On)                     |
| 3. Ethernet (RJ-45) | 8. Power connector                               |
| 4. USB-C 3.2 Gen 2  | 9. USB-C 3.2 Gen 2 (data transfer / DP 1.4 only) |
| 5. 2x USB 3.2 Gen 1 | 10. Headphone / microphone combo jack (3.5mm)    |

## PERFORMANCE

### Processor

#### Processor Family

AMD Ryzen™ 5 / 7 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  |

### Operating System

#### Operating System\*\*

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

### Graphics

#### Graphics\*\*

| Graphics                             | Type     | Memory    | Boost Clock         | TGP  | Key Features   |
|--------------------------------------|----------|-----------|---------------------|------|--|
| NVIDIA® GeForce RTX™ 3060 Laptop GPU | Discrete | 6GB GDDR6 | 1425 MHz / 1702 MHz | 130W | Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, VR ready, DirectX® 12 Ultimate |
| NVIDIA GeForce RTX 3070 Laptop GPU   | Discrete | 8GB GDDR6 | 1560 MHz            | 130W | Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, VR ready, DirectX 12 Ultimate  |

### Monitor Support

#### Monitor Support

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 5120x3200@60Hz

### Chipset

#### Chipset

AMD SoC (System on Chip) platform

### Memory

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

Up to 16GB DDR4-3200 offering

#### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

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

Up to two drives, 2x M.2 SSD

- M.2 2242 SSD up to 512GB
- M.2 2280 SSD up to 1TB

**Storage Type\*\***

| Disk Type    | Interface                | RPM | Offering | Security |
|--------------|--------------------------|-----|----------|----------|
| M.2 2242 SSD | PCIe® NVMe®, PCIe 3.0 x4 | -   | -        | -        |
| M.2 2280 SSD | PCIe NVMe, PCIe 3.0 x4   | -   | -        | -        |

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**

**Optical**

None

**Card Reader**

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

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3306 codec

**Speakers**

Stereo speakers, 2W x2, Nahimic Audio

**Microphone**

Dual array microphone

**Camera**

HD 720p, with camera shutter, fixed focus

**Battery**

**Battery**

Integrated Li-Polymer 80Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)

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

MobileMark® 2014: 4.6 hr (discrete mode) or 7.9 hr (hybrid mode)

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

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

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

|       |                 |      |     |          |            |      |       |          |      |  |
|-------|-----------------|------|-----|----------|------------|------|-------|----------|------|--|
| 17.3" | FHD (1920x1080) | None | IPS | 300 nits | Anti-glare | 16:9 | 800:1 | 72% NTSC | 170° | Refresh rate 144Hz, Free-Sync, Dolby® Vision™, DC dimmer |
|-------|-----------------|------|-----|----------|------------|------|-------|----------|------|--|

**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**

White backlight

**Touchpad**

Buttonless Mylar® surface multi-touch touchpad, 69 x 104 mm (2.72 x 4.09 inches)

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

398.6 x 290 x 24.3-26.2 mm (15.7 x 11.41 x 0.96-1.03 inches)

**Weight**

Around 2.98 kg (6.57 lbs)

**Case Color**

Phantom blue (top), shadow black (bottom)

**Surface Treatment**

Painting

**Case Material**

PC + ABS (top), PC + ABS (bottom)

**System Lighting**

No system lighting

**Notes:**

- The system dimensions and weight vary depending on configurations.

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

Gigabit Ethernet, 1x RJ-45

**WLAN + Bluetooth<sup>[1][2]</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
- Wi-Fi 6 full features might be limited by country-level restrictions.

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

- 3x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 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 and DisplayPort 1.4)
- 1x HDMI 2.1

- 1x Card reader
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector

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**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

- Power-on password
- Supervisor password
- Hard disk password

#### Other Security

Camera privacy shutter

## SERVICE

### Warranty

#### Base Warranty\*\*<sup>[1]</sup>

- 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

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**Notes:**

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

## 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)

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**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

- Feature with \*\* means that only one offering listed under the feature is configured on selected models.
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