

## OVERVIEW



1. 2x USB-C 3.2 Gen 2	4. 2x USB 3.2 Gen 2 (one Always On)
2. Headphone / microphone combo jack (3.5mm)	5. Power connector
3. Card reader	

## 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 Home 64
- Windows 10 Pro 64
- No operating system

### Graphics

#### Graphics

Graphics	Type	Memory	Boost Clock	TGP	Key Features
NVIDIA® GeForce® RTX™ 3060 Laptop GPU	Discrete	6GB GDDR6	1282 MHz / 1425 MHz	100W	Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, VR ready, DirectX® 12

### Monitor Support

#### Monitor Support

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

### Chipset

#### Chipset

AMD SoC (System on Chip) platform

### Memory

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

- Up to 24GB (8GB soldered + 16GB SO-DIMM) DDR4-3200 offering
- Up to 32GB (16GB soldered + 16GB SO-DIMM) DDR4-3200 offering

#### Memory Slots

One memory soldered to systemboard, one DDR4 SO-DIMM slot, 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

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB

#### Storage Type

Disk Type	Interface	RPM	Security
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® ALC3306 codec

### Speakers

Stereo speakers, 2W x2, Nahimic Audio, HARMAN-branded, Smart AMP

### Microphone

Dual array microphone

### Camera

720p, with camera shutter, fixed focus

## Sensor

### Sensors

Accelerometer (G) sensor

## Battery

### Battery

Integrated Li-Polymer 71Wh battery, supports Rapid Charge Express (get 3 hours of runtime with a 15-minute charge)

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

MobileMark® 2018: 7.8 hr

### Notes:

- All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, and/or JEITA 2.0 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

- 170W slim tip (3-pin) AC adapter
- 230W slim tip (3-pin) AC adapter

## DESIGN

## Display

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

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
15.6"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	1000:1	100% sRGB	170°	Refresh rate 165Hz, Dolby® Vision™, Free-Sync, G-Sync, DC dimmer
15.6"	UHD (3840x2160)	None	IPS	500 nits	Anti-glare	16:9	1500:1	100% Adobe® RGB	178°	Refresh rate 60Hz, VESA HDR 400, Dolby Vision, Free-Sync, DC dimmer

15.6"	WQHD (2560x1440)	None	IPS	300 nits	Anti-glare	16:9	1000:1	100% sRGB	178°	Refresh rate 165Hz, Dolby Vision, Free-Sync, G-Sync, DC dimmer
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**Color Calibration**

- X-Rite Pantone factory color calibration
- No 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

**Keyboard Backlight**

- RGB LED backlight
- White LED backlight

**Touchpad**

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

**Mechanical**

**Dimensions (WxDxH)**

356 x 252 x 15.9-18.9 mm (14.02 x 9.92 x 0.63-0.74 inches)

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

1.9 kg (4.19 lbs)

**Case Color**

- Shadow black
- Storm grey

**Surface Treatment**

Anodizing

**Case Material**

Aluminium (top), aluminium (bottom)

**System Lighting**

- "Y" logo white lighting on top cover
- RGB lighting on power button
- RGB lighting on power button

Notes:

1. The system weight varies depending on configurations

**CONNECTIVITY**

**Network**

**Onboard Ethernet**

No Ethernet

**WLAN + Bluetooth®**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Killer Wi-Fi 6 AX1650, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

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

**Standard Ports<sup>[2]</sup>**

- 1x USB 3.2 Gen 2
- 1x USB 3.2 Gen 2 (Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 100w and DisplayPort™ 1.4)
- 1x Card reader
- 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: 40 Gbit/s;  
FireWire 400: 400 Mbit/s;  
FireWire 800: 800 Mbit/s
2. Depending on many factors, actual data transfer speed may be lower than theoretical speed

## Monitor Cable

### Monitor Cable

- Lenovo USB-C 3-in-1 Hub (USB-C to VGA / HDMI® / USB-A)
- No monitor cable

## SECURITY & PRIVACY

### Security

#### Security Chip

Firmware TPM 2.0 integrated in chipset

#### Fingerprint Reader

Touch style fingerprint reader on power button

#### BIOS Security

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

#### Other Security

Camera privacy shutter

## SERVICE

### Warranty

#### Base Warranty

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



AMD



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