

## OVERVIEW



1. USB 3.2 Gen 1 (Always On)	7. Power connector
2. Headphone / microphone combo jack (3.5mm)	8. Kensington Security Slot
3. Ethernet (RJ-45)	9. Power light
4. USB-C 3.2 Gen 1 (data transfer / DP 1.2 only)	10. NOVO button hole
5. 2x USB 3.2 Gen 1	11. USB 3.2 Gen 1
6. HDMI 2.0	

## PERFORMANCE

### Processor

#### Processor Family

10th Generation Intel® Core™ i5 / i7 Processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i5-10300H	4	8	2.5GHz	4.5GHz	8MB	DDR4-2933	Intel UHD Graphics
Core i7-10750H	6	12	2.6GHz	5.0GHz	12MB	DDR4-2933	Intel UHD Graphics
Core i7-10870H	8	16	2.2GHz	5.0GHz	16MB	DDR4-3200	Intel UHD Graphics

### Operating System

#### Operating System

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

### Graphics

#### Graphics

Graphics	Type	Memory	Key Features
NVIDIA® GeForce® GTX 1660 Ti	Discrete	6GB GDDR6	VR ready, DirectX® 12
NVIDIA GeForce RTX™ 2060	Discrete	6GB GDDR6	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 HDMI® (up to 4096x2160@60Hz) or USB-C (up to 3840x2160@60Hz)

### Chipset

#### Chipset

Intel HM470 chipset

### Memory

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

Up to 32GB DDR4-2933 offering

#### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

#### Memory Type<sup>[2]</sup>

- DDR4-2933
- 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.
2. Installed memory is actually 3200MHz but may run at 2933MHz due to processor limitation

### Storage

#### Storage Support

- HDD/SSD mode: up to two drives, 1x 2.5" HDD + 1x M.2 SSD
  - 2.5" HDD up to 2TB
  - M.2 2242 SSD up to 512GB
  - M.2 2280 SSD up to 1TB
- Dual SSD mode: up to two drives, 2x M.2 SSD
  - M.2 2242 SSD up to 512GB

- M.2 2280 SSD up to 1TB

**Storage Slot**

- HDD/SSD mode: one 2.5" drive slot + one M.2 slot
  - One 2.5" drive slot, supports 2.5" SATA HDD
  - One M.2 2280 PCIe Gen 3x4 slot, supports M.2 2242/2280 SSD
- Dual SSD mode: two M.2 slots
  - Two M.2 2280 PCIe Gen 3x4 slots, support M.2 PCIe 2242/2280 SSD

**Storage Type**

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	5.4K	-
2.5" SATA HDD	SATA 6Gb/s	7.2K	-
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x4	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-

**Removable Storage**

**Optical**

None

**Card Reader**

No card reader

**Multi-Media**

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3287 codec

**Speakers**

Stereo speakers, 2W x2, Dolby® Atmos® for gaming, HARMAN-branded

**Microphone**

Dual array microphone

**Camera**

720p, with privacy shutter, fixed focus

**Battery**

**Battery**

- Integrated Li-Polymer 60Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- Integrated Li-Polymer 80Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)

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

- MobileMark® 2018: 5.9 hr (60Wh)
- MobileMark 2018: 7.7 hr (80Wh)

**Notes:**

1. 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**

230W slim tip (3-pin) AC adapter

**DESIGN**

**Display**

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

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

						Ratio	Ratio	Gamut	Angle	
15.6"	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9	-	45% NTSC	-	Refresh rate 120Hz, DC dimmer
15.6"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	-	100% sRGB	-	Refresh rate 60Hz, DC dimmer
15.6"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	-	100% sRGB	-	Refresh rate 144Hz, DC dimmer, Dolby Vision™
15.6"	FHD (1920x1080)	None	IPS	500 nits	Anti-glare	16:9	-	100% sRGB	-	Refresh rate 240Hz, 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 LED backlight
- 4-Zone RGB LED backlight

**Touchpad**

Buttonless Mylar® surface multi-touch touchpad

**Mechanical**

**Dimensions (WxDxH)**

363.06 x 259.61 x 23.57-26.1 mm (14.3 x 10.22 x 0.93-1.03 inches)

**Weight<sup>(1)</sup>**

2.46 kg (5.42 lbs)

**Case Color**

- Dark moss
- Phantom black

**Surface Treatment**

Painting

**Case Material**

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

**System Lighting**

No system lighting

**Notes:**

- The system weight varies depending on configurations

**CONNECTIVITY**

**Network**

**Onboard Ethernet**

Gigabit Ethernet

**WLAN + Bluetooth®**

Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card

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

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

- 3x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer and DisplayPort™ 1.2)
- 1x HDMI 2.0
- 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: 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

## SECURITY & PRIVACY

### Security

#### Security Chip

Firmware TPM 2.0 integrated in chipset

#### Physical Locks

Kensington® Security Slot

#### Fingerprint Reader

No fingerprint reader

#### 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)

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories

- Lenovo Legion™ M300 RGB Gaming Mouse (USB connector)
- None

## CERTIFICATIONS

### Green Certifications

#### Green Certifications

- ErP Lot 3
- RoHS compliant

