

**OVERVIEW**



1. Headphone / microphone combo jack (3.5mm)	6. USB 3.2 Gen 2
2. USB-C 3.2 Gen 1 (data transfer / DP 1.4 only)	7. Ethernet (RJ-45)
3. USB-C 3.2 Gen 2 / Thunderbolt 3	8. USB 3.2 Gen 2
4. USB 3.2 Gen 1 (Always On)	9. Power connector
5. HDMI 2.0	10. Kensington Security Slot

## PERFORMANCE

### Processor

#### Processor Family

10th Generation Intel® Core™ i5 / i7 / i9 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 i7-10875H	8	16	2.3GHz	5.1GHz	16MB	DDR4-3200	Intel UHD Graphics
Core i9-10980HK	8	16	2.4GHz	5.3GHz	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
NVIDIA GeForce RTX 2070 Max-Q	Discrete	8GB GDDR6	VR ready, DirectX 12
NVIDIA GeForce RTX 2070 SUPER Max-Q	Discrete	8GB GDDR6	VR ready, DirectX 12
NVIDIA GeForce RTX 2080 SUPER Max-Q	Discrete	8GB 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 4096x2304@60Hz) or USB-C (up to 4096x2304@60Hz)

### Chipset

#### Chipset

Intel HM470 chipset

### Memory

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

- DDR4-2933
- DDR4-3200

#### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

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

- Up to 32GB DDR4-2933 offering
- Up to 32GB DDR4-3200 offering

#### Notes:

1. Installed memory is actually 3200MHz but may run at 2933MHz due to processor limitation
2. 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 2280 SSD  
• M.2 2280 SSD up to 1TB

**Storage Type**

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

**RAID**

RAID 0 support (RAID preset on some models)

**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, Dolby® Atmos® for gaming

**Microphone**

Dual array microphone

**Camera**

720p, with privacy 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® 2018: 7.3 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**

230W slim tip 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	500 nits	Anti-glare	16:9	-	100% sRGB	-	Refresh rate 240Hz, Dolby Vision™, HDR 400, G-Sync, DC dimmer
15.6"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	-	100% sRGB	-	Refresh rate 144Hz, Dolby Vision, DC

										dimmer
15.6"	FHD (1920x1080)	None	IPS	500 nits	Anti-glare	16:9	-	100% Adobe® RGB	-	Refresh rate 144Hz, Dolby Vision, HDR 400, G-Sync, DC dimmer

**Color Calibration**

X-Rite Pantone factory color calibration

**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, spill-resistant, multimedia Fn keys, numeric keypad, CORSAIR iCUE

**Keyboard Backlight**

RGB LED backlight

**Touchpad**

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

**Mechanical**

**Dimensions (WxDxH)**

359.34 x 259.04 x 19.9 mm (14.15 x 10.20 x 0.78 inches)

**Weight**

2.25 kg (4.96 lbs)

**Case Color**

Slate grey (top), black (bottom)

**Surface Treatment**

Anodizing sandblasting

**Case Material**

Aluminium (top), aluminium (bottom)

**System Lighting**

- "Y" Logo RGB lighting on top cover
- RGB lighting on power button
- "U" Strip RGB lighting
- RGB lighting on rear thermal vent

**CONNECTIVITY**

**Network**

**Onboard Ethernet**

Gigabit Ethernet

**WLAN + Bluetooth™**

802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 Card

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

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

- 1x USB 3.2 Gen 1 (Always On)
- 2x USB 3.2 Gen 2
- 1x USB-C 3.2 Gen 2 / Thunderbolt™ 3 (support data transfer and DisplayPort™ 1.4)
- 1x USB-C 3.2 Gen 1 (support data transfer and DisplayPort 1.4)

- 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

#### Physical Locks

Kensington® Security Slot

#### Fingerprint Reader

No fingerprint reader

#### BIOS Security

- Power-on password
- Supervisor 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

- 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)

## CERTIFICATIONS

## Green Certifications

### Green Certifications

- ErP Lot 3
- RoHS compliant

