

PERFORMANCE

Processor

Processor Family

9th Generation Intel® Core™ i7 / i9 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i7-9750H	6	12	2.6GHz	4.5GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i9-9880H	8	16	2.3GHz	4.8GHz	16MB	DDR4-2666	Intel UHD Graphics 630

Operating System

Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64

Graphics

Graphics

Graphics	Type	Memory	Key Features
NVIDIA® GeForce® GTX 1650 Max-Q	Discrete	4GB GDDR5	DirectX® 12

Monitor Support

Monitor Support

Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via Thunderbolt™ (up to 5120x3200@60Hz)

Chipset

Chipset

Intel HM370 chipset

Memory

Memory Type

DDR4-2666

Memory Slots

Memory soldered to systemboard, no slots

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

- 12GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable

Notes:

- 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

One drive, up to 1TB M.2 2280 SSD, optional Intel Optane™ Memory integrated with SSD, M.2

Storage Type

Disk Type	Interface	RPM	Security
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-
Intel Optane Memory with Solid State Storage, M.2 2280	PCIe NVMe, PCIe 3.0 x4	-	-

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio

Speakers

Stereo speakers, 2W x4, Dolby® Atmos®

Microphone

Dual array microphone

Camera

720p, with privacy shutter, fixed focus

Sensor

Sensors

Accelerometer (G) sensor

Battery

Battery

Integrated Li-Polymer 69Wh battery

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

- MobileMark® 2014: 12 hr (FHD)
- MobileMark 2014: 9 hr (UHD)

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

135W 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"	UHD (3840x2160)	Multi-touch	IPS	500 nits	Glossy	16:9	-	72% NTSC	-	VESA HDR 400
15.6"	FHD (1920x1080)	Multi-touch	IPS	500 nits	Glossy	16:9	-	72% NTSC	-	VESA HDR 400

Touchscreen

OGS (One Glass Solution) multi-touch, supports 10-point touch

Multi-mode

Laptop, tent, stand and tablet modes supported by 360° hinge

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

**Pen**

Lenovo Integrated Pen, on-board rechargeable

**Keyboard**

6-row, multimedia Fn keys, numeric keypad

**Keyboard Backlight**

LED backlight

**Touchpad**

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

**Mechanical****Dimensions (WxDxH)**

355.5 x 238.5 x 17.5-19.7 mm (13.99 x 9.39 x 0.69-0.78 inches)

**Weight**

2.0 kg (4.41 lbs)

**Case Color**

Iron grey

**Surface Treatment**

Aluminium CNC

**Case Material**

Aluminium (top), aluminium (bottom)

**CONNECTIVITY****Network****WLAN + Bluetooth™**

Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 card

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

- 2x USB-C 3.1 Gen 2 / Thunderbolt 3 (support data transfer, Power Delivery and DisplayPort™)
- 1x USB 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)
- 1x power connector

**Notes:**

1. 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****Fingerprint Reader**

Touch style fingerprint reader on palm rest

**BIOS Security**

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

**Other Security**

Camera privacy shutter

## SERVICE

### Warranty

#### Base Warranty

- 1-year depot service
- 2-year (1-yr battery) depot service

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories

None

## CERTIFICATIONS

### Green Certifications

#### Green Certifications

- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

