

## 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 i5-10210U	4	8	1.6GHz	4.2GHz	6MB	DDR4-2666	Intel UHD Graphics
Core i7-10510U	4	8	1.8GHz	4.9GHz	8MB	DDR4-2666	Intel UHD Graphics
Core i7-10710U	6	12	1.1GHz	4.7GHz	12MB	DDR4-2666	Intel UHD Graphics

### Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- FreeDOS

### Graphics

Graphics	Type	Memory	Key Features
Intel UHD Graphics	Integrated	Shared	DirectX® 12
AMD Radeon™ 630	Discrete	2GB GDDR5	DirectX 12

### Monitor Support

Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via HDMI® (up to 3840x2160@30Hz) or USB-C (up to 3840x2160@60Hz)

### Chipset

Intel SoC (System on Chip) platform

### Memory

#### Memory Type

DDR4-2666

#### Memory Slots

One DDR4 SO-DIMM slot

#### Max Memory

Up to 16GB DDR4-2666

#### 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, 1x M.2 2280 SSD or 1x M.2 2242 SSD

- M.2 2280 SSD up to 1TB
- M.2 2242 SSD up to 512GB
- Optional Intel Optane™ Memory integrated with SSD, M.2

#### Storage Type

Disk Type	Interface	RPM	Security
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x2	-	-
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 x2, Dolby® Audio™ x3, HARMAN-branded

**Microphone**

Dual array microphone

**Camera**

720p, with ThinkShutter, fixed focus

**Battery****Battery**

Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Max Battery Life**

MobileMark® 2014: 11 hr

**Notes:**

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

- 45W slim tip AC adapter
- 45W USB-C AC adapter
- 65W slim tip AC adapter
- 65W USB-C AC adapter
- 65W USB-C slim AC adapter

**DESIGN****Display****Display**

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
13.3"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	700:1	-	170°	Dolby Vision™

**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>

**Touchscreen**

Non-touch

**Input Device****Keyboard**

6-row, spill-resistant, multimedia Fn keys

**Keyboard Backlight**

- LED backlight
- Not support

**Touchpad**

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

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

307.6 x 216.4 x 15.9 mm (12.11 x 8.52 x 0.63 inches)

**Weight**

1.32 kg (2.91 lbs)

**Case Color**

Mineral grey

**Surface Treatment**

Anodizing sandblasting

**Case Material**

Aluminium (top), Aluminium (bottom)

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

No Ethernet

**WLAN + Bluetooth™**

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

Notes:

- 802.11ax full features might be limited by country level restrictions

**Ports****Standard Ports**

- 1x USB 3.1 Gen 1
- 1x USB 3.1 Gen 1 (Always On)
- 1x USB-C 3.1 Gen 2 (support data transfer, Power Delivery and DisplayPort™)
- 1x HDMI 1.4b
- 1x headphone / microphone combo jack (3.5mm)
- 1x power connector

Notes:

- Depending on many factors, actual data transfer speed may be lower than theoretical speed

**SECURITY & PRIVACY****Security****Security Chip**

Discrete TPM 2.0, TCG certified

**Fingerprint Reader**

- Touch style fingerprint reader on power button
- No fingerprint reader

**BIOS Security**

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

**Other Security**

ThinkShutter camera cover

## SERVICE

### Warranty

#### Base Warranty

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

## CERTIFICATIONS

### Green Certifications

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

### Other Certifications

#### Mil-Spec Test

None

