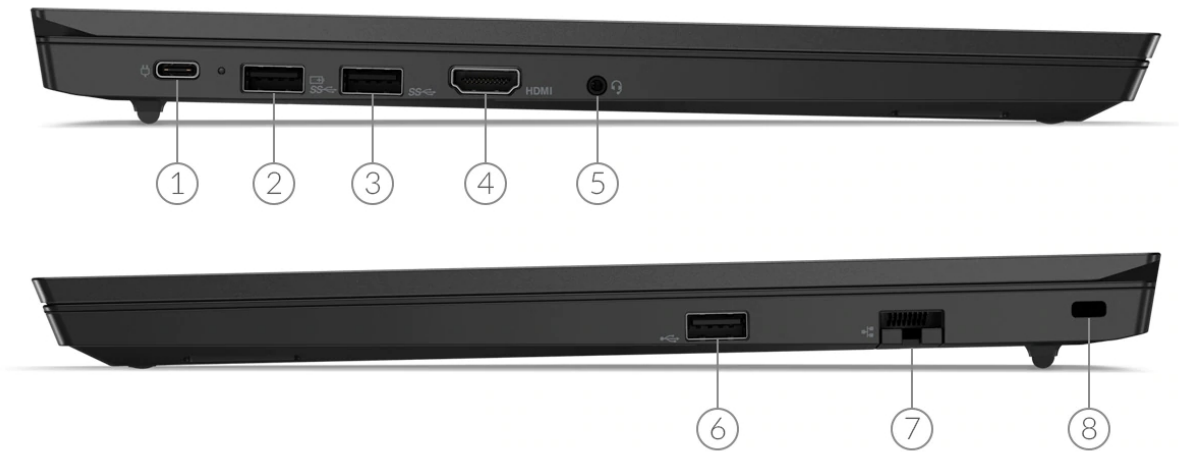


**OVERVIEW**



1. USB-C 3.1 Gen 1	5. Headphone / microphone combo jack (3.5mm)
2. USB 3.1 Gen 1 (Always On)	6. USB 2.0
3. USB 3.1 Gen 1	7. Ethernet (RJ-45)
4. HDMI 1.4b	8. Kensington Security Slot

## PERFORMANCE

### Processor

#### Processor Family

10th Generation Intel® Core™ i3 / i5 / i7 Processor

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

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i3-10110U	2	4	2.1GHz	4.1GHz	4MB	DDR4-2666	Intel UHD 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

#### Notes:

1. i7-10710U is NOT available in EMEA

### Operating System

#### Operating System

- Windows® 10 Pro 64
- Windows 10 Pro in S mode
- Windows 10 Home 64
- No operating system

### Graphics

#### Graphics

Graphics	Type	Memory	Key Features
Intel UHD Graphics	Integrated	Shared	DirectX® 12
AMD Radeon™ 625	Discrete	2GB GDDR5	DirectX 12
AMD Radeon RX 640	Discrete	2GB GDDR5	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 3840x2160@30Hz) or USB-C (up to 3840x2160@60Hz)

### Memory

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

Up to 16GB DDR4-2666

#### Memory Slots

One DDR4 SO-DIMM slot

#### Memory Type

DDR4-2666

#### 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, 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
- Optional Intel Optane™ Memory or Optane Memory Integrated with SSD, M.2

**Storage Type**

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	5.4K	APS (Active Protection System™)
2.5" SATA HDD	SATA 6Gb/s	7.2K	APS (Active Protection System)
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x2	-	-
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x4	-	-
M.2 2280 SSD	SATA 6Gb/s	-	Opal2
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-
Intel Optane Memory M10	PCIe NVMe, PCIe 3.0 x2	-	-
Intel Optane Memory with Solid State Storage, M.2 2280	PCIe NVMe, PCIe 3.0 x4	-	-

**Multi-Media****Audio Chip**

High Definition (HD) Audio, Synaptic® CX11880 codec

**Speakers**

Stereo speakers, 2W x2, Dolby® Advanced Audio

**Microphone**

Dual array microphone

**Battery****Battery**

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

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

MobileMark® 2014: 12.2 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<sup>[1]</sup>**

- 45W USB-C (2-pin) AC adapter
- 45W USB-C (3-pin) AC adapter
- 65W USB-C (2-pin) AC adapter
- 65W USB-C (3-pin) AC adapter
- No power adapter

**Notes:**

- No power adapter is for special bid only

**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	TN	220 nits	Anti-glare	16:9	400:1	-	90°	-
15.6"	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9	700:1	-	170°	-

**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

**Keyboard Backlight**

- LED backlight
- No support

**UltraNav™**

TrackPoint® pointing device and Mylar® surface multi-touch touchpad

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

Models	Dimensions
All models	368 x 245 x 18.9 mm (14.49 x 9.65 x 0.74 inches)

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

Models	Weight
All models	1.9 kg (4.19 lbs)

**Case Color**

- Black
- Silver

**Case Material**

Aluminium (top), PC + ABS (bottom)

**Notes:**

- The system weight varies depending on configurations

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

Gigabit Ethernet, Realtek® RTL8111GUS

**WLAN + Bluetooth<sup>[1]</sup>**

- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2, M.2 Card

**Notes:**

- Intel WiFi 6 full features might be limited by country level restrictions  
Bluetooth 5.2 is supported with driver version 22.30 and later

**Ports<sup>[1]</sup>****Standard Ports<sup>[2]</sup>**

- 1x USB 2.0
- 1x USB 3.1 Gen 1
- 1x USB 3.1 Gen 1 (Always On)
- 1x USB-C 3.1 Gen 1 (support data transfer, Power Delivery and DisplayPort™)
- 1x HDMI 1.4b

- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)

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**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

- Discrete TPM 2.0, TCG certified
- Firmware TPM 2.0 integrated in chipset

#### Physical Locks

Kensington® Security Slot

#### Fingerprint Reader

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

#### BIOS Security

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

## SERVICE

### Warranty

#### Base Warranty

- 1-year mail-in service
- 1-year depot service
- 1-year depot with 2-year system board service
- 1-year limited onsite service
- No base warranty

## ENVIRONMENTAL

### Operating Environment

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

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping package: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)

#### Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage and transportation: 5% to 95% at wet-bulb temperature 27°C (81°F)

#### Altitude

Maximum altitude (without pressurization): 3048 m (10,000 ft)

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**Notes:**

1. When you charge the battery, its temperature must be no lower than 10°C (50°F)

## CERTIFICATIONS

## Green Certifications

### Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- TCO
- RoHS compliant

## Other Certifications

### Mil-Spec Test

MIL-STD-810G military test passed

