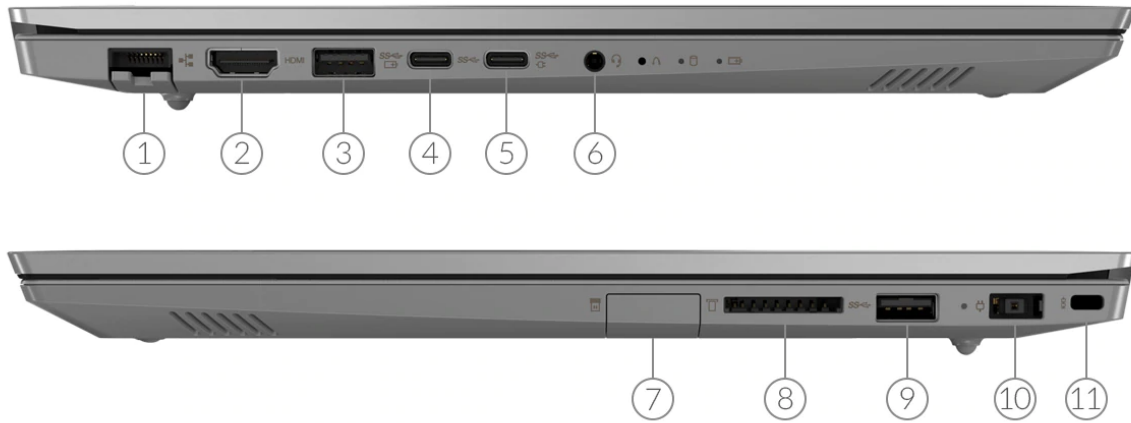


OVERVIEW



1. Ethernet (RJ-45)	7. USB 2.0
2. HDMI 1.4b	8. Card reader
3. USB 3.1 Gen 1 (Always On)	9. USB 3.1 Gen 1
4. USB-C 3.1 Gen 1	10. Power connector
5. USB-C 3.1 Gen 2	11. Kensington Security Slot
6. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

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

Processor

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

Operating System

Operating System

- Windows® 10 Home 64
- Windows 10 Home in S mode
- Windows 10 Pro 64
- Windows 10 Pro in S mode
- FreeDOS

Graphics

Graphics

Graphics	Type	Memory	Key Features
Intel UHD Graphics	Integrated	Shared	DirectX® 12
AMD Radeon™ 620	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)

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Memory Type

DDR4-2666

Memory Slots

One memory soldered to systemboard, one DDR4 SO-DIMM slot

Max Memory^[1]

- Up to 36GB (4GB soldered + 32GB SO-DIMM) DDR4-2666
- Up to 40GB (8GB soldered + 32GB SO-DIMM) 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 2242/2280 SSD

- 2.5" HDD up to 2TB
- 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
2.5" SATA HDD	SATA 6Gb/s	7.2K	APS (Active Protection System™)
2.5" SATA HDD	SATA 6Gb/s	5.4K	APS (Active Protection System)
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x2	-	-
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	-	-
Intel Optane Memory M10	PCIe NVMe, PCIe 3.0 x2	-	-

Removable Storage

Optical

None

Card Reader

4-in-1 card reader (SD, SDHC, SDXC, MMC)

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby® Audio™

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)
- Integrated Li-Polymer 57Wh battery

Max Battery Life^[1]

- MobileMark® 2014: 12 hr (57Wh)
- MobileMark 2014: 9 hr (45Wh)

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

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

DESIGN

Display

Display^[1]

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
15.6"	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9	800:1	-	-	-

15.6"	FHD (1920x1080)	None	TN	220 nits	Anti-glare	16:9	500:1	-	-	-
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Touchscreen

Non-touch

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**Keyboard**

6-row, spill-resistant, multimedia Fn keys, numeric keypad

Keyboard Backlight

- LED backlight
- Not support

Touchpad

Buttonless Mylar® surface multi-touch touchpad

Mechanical**Dimensions (WxDxH)**

364 x 245 x 18.9 mm (14.33 x 9.65 x 0.74 inches)

Weight

1.8 kg (3.97 lbs)

Case Color

Mineral grey

Surface Treatment

Anodizing sandblasting

Case Material

Aluminium (top), PC + ABS (bottom)

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

Gigabit Ethernet

WLAN + Bluetooth™^[1]

- 802.11ac 1x1 Wi-Fi + Bluetooth 5.0, M.2 card
- 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 Card
- 802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 Card

Notes:

1. 802.11ax full features might be limited by country level restrictions

Ports^[1]**Standard Ports^[2]**

- 1x USB-C 3.1 Gen 1
- 1x USB 2.0
- 1x USB-C 3.1 Gen 2 (support data transfer, Power Delivery and DisplayPort™)
- 1x card reader
- 1x USB 3.1 Gen 1
- 1x USB 3.1 Gen 1 (Always On)
- 1x HDMI 1.4b
- 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

- 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

Green Certifications

- EPEAT™ Silver
- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

Other Certifications

Mil-Spec Test

MIL-STD-810G military test passed

