

PERFORMANCE

Processor

Processor Family

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Pentium Gold 5405U	2	4	2.3GHz	-	2MB	DDR4-2133	Intel UHD Graphics
Core i3-8145U	2	4	2.1GHz	3.9GHz	4MB	DDR4-2400	Intel UHD Graphics
Core i5-8265U	4	8	1.6GHz	3.9GHz	6MB	DDR4-2400	Intel UHD Graphics
Core i7-8565U	4	8	1.8GHz	4.6GHz	8MB	DDR4-2400	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
NVIDIA® GeForce® MX110	Discrete	2GB GDDR5	DirectX 12
NVIDIA GeForce MX230	Discrete	2GB GDDR5	DirectX 12

Monitor Support

Supports up to 2 independent displays via native display and 1 external monitor; supports external monitor via HDMI® (up to 1920x1080@60Hz)

Chipset

Intel SoC (System on Chip) platform

Memory

Memory Type

- DDR4-2133
- DDR4-2400

Memory Slots

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

Max Memory

- Soldered memory, not upgradable
- Up to 12GB (4GB soldered + 8GB SO-DIMM) DDR4-2400 offering
- Up to 8GB (8GB SO-DIMM) DDR4-2400 offering
- Up to 8GB (8GB SO-DIMM) DDR4-2133 offering
- Up to 16GB (16GB SO-DIMM) DDR4-2400 offering

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

Up to 2 drives, 1x 2.5" HDD + 1x M.2 2242 SSD or 1x 2.5" HDD + 1x M.2 2280 SSD

- 2.5" HDD up to 2TB
- M.2 2242 SSD up to 512GB
- M.2 2280 SSD up to 512GB

- 2.5" SSD up to 256GB
- Optional Intel Optane™ Memory, M.2

Storage Type

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	5.4K	-
2.5" SATA SSD	SATA 6Gb/s	-	-
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x2	-	-
M.2 2280 SSD	SATA 6Gb/s	-	-

Removable Storage**Optical**

- DVD burner (DVD±RW), SATA 1.5Gb/s, slim (9.0mm)
- Not configured

Card Reader

Not Support

Multi-Media**Audio Chip**

High Definition (HD) Audio

Speakers

Stereo speakers, 1.5W x2, Dolby® Audio™

Microphone

Single microphone

Camera

- 0.3-megapixel, with privacy shutter, fixed focus
- 720p, with privacy shutter, fixed focus

Battery**Battery**

Integrated Li-Polymer 36Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max Battery Life

MobileMark® 2014: 7.7 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 round tip (Wall Mount) AC adapter
- 65W round tip (Wall Mount) AC adapter

DESIGN**Display****Display**

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
17.3"	HD+ (1600x900)	None	TN	220 nits	Anti-glare	16:9	-	60% NTSC	-	-
17.3"	HD+ (1600x900)	None	TN	220 nits	Anti-glare	16:9	-	-	-	-

17.3"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	-	72% NTSC	-	-
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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, multimedia Fn keys, numeric keypad

Keyboard Backlight

Not support

Touchpad

Buttonless Mylar® surface multi-touch touchpad

Mechanical**Dimensions (WxDxH)**

413 x 284.6 x 24.3 mm (16.26 x 11.2 x 0.96 inches)

Weight

2.8 kg (6.2 lbs)

Case Color

- Granite black
- Platinum grey

Surface Treatment

IMR

Case Material

PC + ABS (top), PC + ABS (bottom)

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

Gigabit Ethernet

WLAN + Bluetooth™

802.11ac 1x1 Wi-Fi + Bluetooth 4.2, M.2 card

Ports**Standard Ports**

- 2x USB 3.1 Gen 1
- 1x USB-C 3.1 Gen 1
- 1x HDMI 1.4b
- 1x Ethernet (RJ-45)
- 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

Firmware TPM 2.0 integrated in chipset

Physical Locks

Kensington® Security Slot

Fingerprint Reader

Not Support

BIOS Security

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

Other Security

Camera privacy shutter

SERVICE

Warranty

Base Warranty

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

CERTIFICATIONS

Green Certifications

- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS

