PERFORMANCE

Processor

Processor Family

7th or 8th Generation Intel® Core™ i3 / i5 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i3-7020U	2	4	2.3GHz	-	3MB	DDR4-2133	Intel HD Graphics 620
Core i3-8130U	2	4	2.2GHz	3.4GHz	4MB	DDR4-2400	Intel UHD Graphics 620
Core i5-8250U	4	8	1.6GHz	3.4GHz	6MB	DDR4-2400	Intel UHD Graphics 620

Operating System

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

Graphics

Graphics	Type	Memory	Key Features
Intel HD Graphics 620	Integrated	Shared	DirectX® 12
Intel UHD Graphics 620	Integrated	Shared	DirectX 12
NVIDIA® GeForce® MX110	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 3840x2160@30Hz)

Chipset

Intel SoC (System on Chip) platform

Memory

Memory Type

DDR4-2133

Memory Slots

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

Max Memory

Up to 12GB (4GB soldered + 8GB SO-DIMM) DDR4-2133 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 2242/2280 SSD
• 2.5" HDD up to 2TB
• M.2 2242 SSD up to 512GB
• M.2 2280 SSD up to 512GB

Storage Type

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

M.2 2280 SSD	SATA 6Gb/s	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-

Removable Storage

Optical

None

Card Reader

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

Multi-Media

Audio Chip

High Definition (HD) Audio

Speakers

Stereo speakers, 1.5W x2, Dolby® Audio™

Microphone

Single microphone

Camera

0.3-megapixel, fixed focus

Battery

Battery

- Integrated Li-Polymer 30Wh battery
- Integrated Li-Polymer 35Wh battery

Max Battery Life

- MobileMark® 2014: 5.5 hr (30Wh)
- MobileMark 2014: 6 hr (35Wh)

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

- 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
15.6"	FHD (1920x1080)	None	TN	220 nits	Anti-glare	16:9	-	-	-	-
15.6"	HD (1366x768)	None	TN	220 nits	Anti-glare	16:9	-	-	-	-

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)

362.2 x 251.5 x 19.9 mm (14.3 x 10 x 0.8 inches)

Weight

1.85 kg (4.1 lbs)

Case Color

- Granite black
- Platinum grey

Surface Treatment

- IMR
- Texture

Case Material

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

CONNECTIVITY

Network

WLAN + Bluetooth™

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

Ports

Standard Ports

- 1x USB 2.0
- 2x USB 3.1 Gen 1
- 1x HDMI 1.4b
- 1x card reader
- 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

Fingerprint Reader

No fingerprint reader

BIOS Security

- Power-on password
- Administrator password
- Hard disk password

SERVICE

Warranty

Base Warranty

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

CERTIFICATIONS

Green Certifications

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