

PERFORMANCE

Processor

Processor Family

10th Generation Intel® Core™ i5 / i7 / i9 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i5-10300H	4	8	2.5GHz	4.5GHz	8MB	DDR4-2933	Intel UHD Graphics
Core i7-10750H	6	12	2.6GHz	5.0GHz	12MB	DDR4-2933	Intel UHD Graphics
Core i7-10870H	8	16	2.2GHz	5.0GHz	16MB	DDR4-3200	Intel UHD Graphics
Core i7-10875H	8	16	2.3GHz	5.1GHz	16MB	DDR4-3200	Intel UHD Graphics
Core i9-10980HK	8	16	2.4GHz	5.3GHz	16MB	DDR4-3200	Intel UHD Graphics

Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- FreeDOS
- No operating system

Graphics

Graphics	Type	Memory	Key Features
NVIDIA® GeForce® GTX 1650 Ti	Discrete	4GB GDDR6	DirectX® 12
NVIDIA GeForce GTX 1660 Ti Max-Q	Discrete	6GB GDDR6	VR ready, DirectX 12
NVIDIA GeForce RTX™ 2060 Max-Q	Discrete	6GB GDDR6	VR ready, DirectX 12

Monitor Support

Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via USB-C (up to 4096x2304@60Hz)

Chipset

Intel HM470 chipset

Memory

Memory Type

- DDR4-2933
- DDR4-3200

Notes:

- Installed memory is actually 3200MHz but may run at 2933MHz due to processor limitation

Memory Slots

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

Max Memory

- Up to 32GB (16GB soldered + 16GB SO-DIMM) DDR4-3200 offering
- Up to 16GB (8GB soldered + 8GB SO-DIMM) DDR4-2933 offering
- Up to 32GB (16GB soldered + 16GB SO-DIMM) DDR4-2933 offering
- Up to 16GB (8GB soldered + 8GB SO-DIMM) DDR4-3200 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 two drives, 2x M.2 2280 SSD

- M.2 2280 SSD up to 2TB

Storage Type

Disk Type	Interface	RPM	Security
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-

Removable Storage

Optical

Not Support

Card Reader

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

Multi-Media

Audio Chip

High Definition (HD) Audio, ALC3306 codec

Speakers

Stereo speakers, 2W x2, Dolby® Atmos® speaker system for gaming

Microphone

Dual array microphone

Camera

720p, with privacy shutter, fixed focus

Battery

Battery

Integrated Li-Polymer 71Wh battery, supports Rapid Charge Boost (get 2 hours of runtime with a 15-minute charge)

Max Battery Life

MobileMark® 2018: 5.8 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

- 170W slim tip AC adapter
- 230W slim tip 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	IPS	300 nits	Anti-glare	16:9	-	100% sRGB	-	Refresh rate 144Hz, DC dimmer, Dolby Vision™
15.6"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	-	100% sRGB	-	Refresh rate 60Hz, DC dimmer, Dolby Vision
15.6"	UHD (3840x2160)	None	IPS	500 nits	Anti-glare	16:9	-	100% Adobe® RGB	-	Refresh rate 60Hz, VESA HDR 400, DC dimmer, 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, numeric keypad

Keyboard Backlight

- RGB LED backlight
- White LED backlight

Touchpad

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

Mechanical

Dimensions (WxDxH)

356 x 250 x 15.9-17.9 mm (14.01 x 9.84 x 0.6-0.7 inches)

Weight

1.86 kg (4.1 lbs)

Case Color

Slate grey

Surface Treatment

Anodizing

Case Material

Aluminium (top), Aluminium (bottom)

System Lighting

"Y" Logo with white lighting on top cover
RGB lighting on power button

CONNECTIVITY

Network

Onboard Ethernet

Not Support

WLAN + Bluetooth™

- 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Killer Wi-Fi 6 AX1650, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

Ports

Standard Ports

- 1x USB 3.2 Gen 2
- 1x USB 3.2 Gen 2 (Always On)
- 2x USB-C 3.2 Gen 2 / Thunderbolt™ 3 (support data transfer, Power Delivery 100w and DisplayPort™ 1.4)
- 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

Monitor Cable

- 1x Lenovo USB-C 3-in-1 Hub (USB-C to VGA/HDMI®/USB-A)
- Not configured

SECURITY & PRIVACY

Security

Fingerprint Reader

Touch style fingerprint reader on power button

BIOS Security

- Supervisor password
- Hard disk password

Other Security

Camera privacy shutter

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

- ErP Lot 3
- RoHS

