

PERFORMANCE

Processor

Processor Family

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

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i7-10750H	6	12	2.6GHz	5.0GHz	12MB	DDR4-2933	Intel UHD Graphics
Core i7-10850H	6	12	2.7GHz	5.1GHz	12MB	DDR4-2933	Intel UHD Graphics
Core i7-10875H	8	16	2.3GHz	5.1GHz	16MB	DDR4-2933	Intel UHD Graphics
Core i9-10885H	8	16	2.4GHz	5.3GHz	16MB	DDR4-2933	Intel UHD Graphics
Xeon W-10855M	6	12	2.8GHz	5.1GHz	12MB	DDR4-2933	Intel UHD Graphics

Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations
- Fedora Linux
- Red Hat Enterprise Linux (certified only)
- Ubuntu Linux LTS
- No operating system

Graphics

Graphics	Type	Memory	Key Features
Intel UHD Graphics	Integrated	Shared	DirectX® 12
NVIDIA® Quadro® T1000 Max-Q	Discrete	4GB GDDR6	DirectX 12
NVIDIA Quadro T2000 Max-Q	Discrete	4GB GDDR6	DirectX 12

Monitor Support

Supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via HDMI® (up to 4K@60Hz) or Thunderbolt™ (up to 5K@60Hz)

Chipset

Intel WM490 chipset

Memory

Memory Type

- DDR4-2933 ECC
- DDR4-2933 non-ECC

Notes:

- Non-ECC memory is actually DDR4-3200 but may run at DDR4-2933 due to processor limitation

Memory Slots

Two DDR4 DIMM slots, dual-channel capable

Memory Protection

ECC on models with ECC DIMMs and Xeon processor

Max Memory

Up to 64GB

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 each

RAID

RAID 0/1 support

Storage Type

Disk Type	Interface	RPM	Security
M.2 2280 SSD	PCIe NVMe	-	Opal2
M.2 2280 SSD	PCIe NVMe	-	-

Removable Storage

Optical

Not Support

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3286 codec

Speakers

Stereo speakers, Dolby® Atmos® sound system

Microphone

- Dual array microphone, far-field
- Not configured

Camera

- 720p, with ThinkShutter, fixed focus
- IR & 720p, with ThinkShutter, fixed focus
- Not configured

Battery

Battery

Integrated Li-Polymer 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 135W AC adapter

Max Battery Life

MobileMark® 2014: 15.9 hr  
MobileMark 2018: 12 hr  
JEITA 2.0: 17.1 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

- 135W slim tip AC adapter
- 170W slim tip AC adapter

DESIGN

Display

Display

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
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15.6"	UHD (3840x2160)	Multi-touch	OLED	SDR 400nit, HDR 540nit (peak)	Anti-reflection Anti-smudge	16:9	100000:1	100% DCI-P3	170°	Dolby Vision™, HDR
15.6"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	700:1	72% NTSC	170°	-
15.6"	FHD (1920x1080)	None	IPS	500 nits	Anti-glare	16:9	800:1	72% NTSC	170°	Dolby Vision, HDR
15.6"	UHD (3840x2160)	None	IPS	600 nits	Anti-glare	16:9	1400:1	100% Adobe® RGB	178°	Dolby Vision, HDR

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>

Color Calibration

- X-Rite Pantone factory color calibration (UHD display)
- Not configured

Touchscreen

- On-cell touch, supports 10-point touch
- Non-touch

Input Device

Pen

- Lenovo Pen Pro
- None

Keyboard

6-row, spill-resistant, multimedia Fn keys with Unified Communications controls

Keyboard Backlight

LED backlight

UltraNav™

3-button TrackPoint® pointing device and 2-button glass surface multi-touch touchpad

Mechanical

Dimensions (WxDxH)

Models	Dimensions
Non-touch models	361.8 x 245.7 x18.4 mm (14.24 x 9.67 x 0.72 inches)
Touch models	361.8 x 245.7 x18.7 mm (14.24 x 9.67 x 0.74 inches)

Weight

Models	Weight
Non-touch models	1.7 kg (3.75 lbs)
Touch models	1.8 kg (3.97 lbs)

Case Color

Black

Case Material

- Carbon Fiber (Black) + PC + PPS Hybrid (top), Aluminum + PC + ABS (bottom)
- Carbon Fiber (Woven pattern) + PC + PPS Hybrid (top), Aluminum + PC + ABS (bottom)

CONNECTIVITY

Network

**Onboard Ethernet**

- Lenovo USB-C to Ethernet Adapter
- Not configured

**WLAN + Bluetooth™**

- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Not configured

**WWAN**

- Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card
- Not configured

**SIM Card**

Not Support

**NFC**

Not support

**Ports****Standard Ports**

- 2x USB 3.2 Gen 1 (one Always On)
- 2x USB-C 3.2 Gen 2 / Thunderbolt 3 (support data transfer, Power Delivery and DisplayPort™)
- 1x HDMI 2.0
- 1x SD card reader
- 1x headphone / microphone combo jack (3.5mm)
- 1x Security keyhole

**Notes:**

- Depending on many factors, actual data transfer speed may be lower than theoretical speed

**Optional Ports**

1x Nano-SIM card slot (WWAN models)

**Monitor Cable**

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to DisplayPort Adapter
- Lenovo USB-C to VGA Adapter

**SECURITY & PRIVACY****Security****Security Chip**

- Discrete TPM 2.0, TCG certified
- Firmware TPM 2.0 integrated in chipset
- Disabled (in some regions)

**Physical Locks**

Kensington® Security Slot

**Smart Card Reader**

Not Support

**Fingerprint Reader**

Touch style fingerprint reader on palm rest, match-on-chip

**BIOS Security**

- Power-on password
- Supervisor password
- Hard disk password
- Self-healing BIOS

**Other Security**

- (Optional) ThinkShutter camera cover
- (Optional) IR camera for Windows Hello

## MANAGEABILITY

### System Management

- Intel vPro Technology, DASH
- None

## SERVICE

### Warranty

#### Base Warranty

- 1-year depot service
- 1-year limited onsite service
- 1-year depot with 2-year system board service
- 1-year + 2-year depot service
- 1-year + 2-year limited onsite service
- 3-year (1-yr battery) depot service
- 3-year (1-yr battery) limited onsite service
- No base warranty

## ACCESSORIES

### Bundled Accessories

Not Support

## CERTIFICATIONS

### Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- RoHS

### Other Certifications

#### Mil-Spec Test

MIL-STD-810G military test passed

### ISV Certifications

Please visit [www.thinkworkstations.com/isv-certifications/](http://www.thinkworkstations.com/isv-certifications/)

