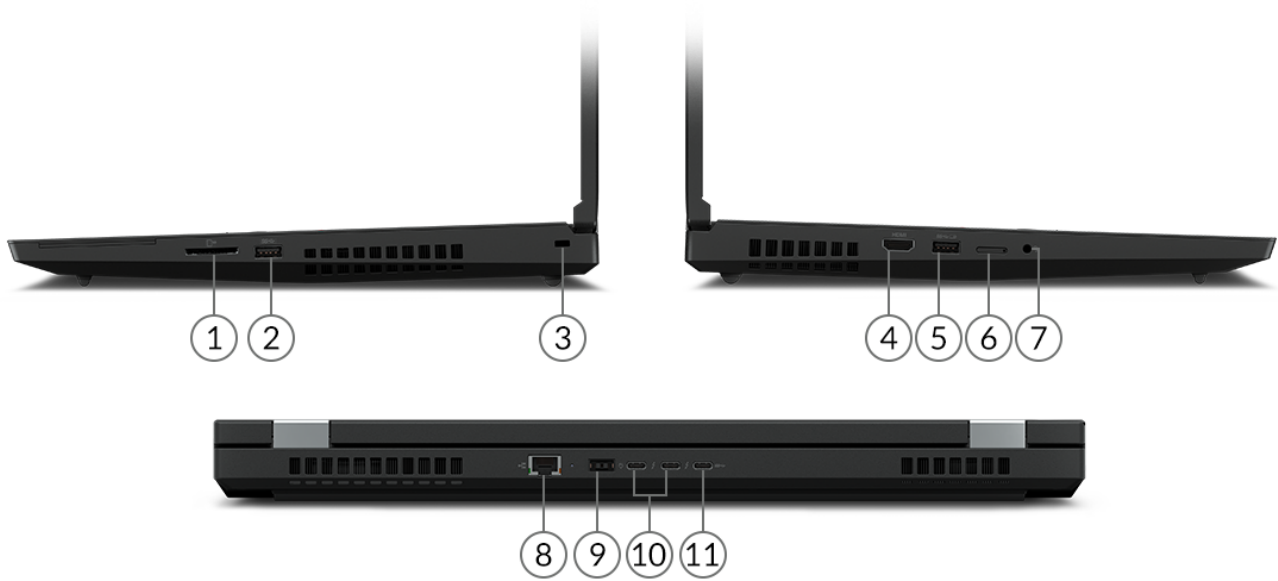


**OVERVIEW**



1. SD card reader	7. Headphone / microphone combo jack (3.5mm)
2. USB 3.2 Gen 1	8. 2.5GbE (RJ-45)
3. Kensington Security Slot	9. Power connector
4. HDMI 2.1 / 2.0	10. 2x Thunderbolt 4
5. USB 3.2 Gen 1 (Always On)	11. USB-C 3.2 Gen 2
6. Nano-SIM card slot *	

Notes:

- Ports with \* are only available on selected models

## PERFORMANCE

### Processor

#### Processor Family

11th Generation Intel® Core™ i5 / i7 / i9 or Intel Xeon® Processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i5-11500H	6	12	2.9GHz	4.6GHz	12MB	DDR4-3200	Intel UHD Graphics
Core i7-11800H	8	16	2.3GHz	4.6GHz	24MB	DDR4-3200	Intel UHD Graphics
Core i7-11850H	8	16	2.5GHz	4.8GHz	24MB	DDR4-3200	Intel UHD Graphics
Core i9-11950H	8	16	2.6GHz	5.0GHz	24MB	DDR4-3200	Intel UHD Graphics
Xeon W-11855M	6	12	3.2GHz	4.9GHz	18MB	DDR4-3200	Intel UHD Graphics
Xeon W-11955M	8	16	2.6GHz	5.0GHz	24MB	DDR4-3200	Intel UHD Graphics

### Operating System

#### Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations
- Fedora Linux
- Ubuntu Linux LTS

### Graphics

#### Graphics

Graphics	Type	Memory	Boost Clock	TGP	Connector	Max Resolution	Key Features	Remark
NVIDIA® RTX A2000	Discrete	4GB GDDR6	-	-	-	-	DirectX® 12	-
NVIDIA RTX A3000	Discrete	6GB GDDR6	-	-	-	-	DirectX 12	-
NVIDIA RTX A5000	Discrete	16GB GDDR6	-	-	-	-	DirectX 12	-
NVIDIA T1200	Discrete	4GB GDDR6	-	-	-	-	DirectX 12	-
NVIDIA RTX A4000	Discrete	8GB GDDR6	-	-	-	-	DirectX 12	-

### Monitor Support

#### Monitor Support

Supports up to 5 independent displays via native display and 4 external monitors, hybrid mode only; supports external monitors via HDMI® (up to 4K@60Hz on NVIDIA T1200 / 8K@60Hz on other discrete graphics), USB-C (up to 5120x3200@60Hz) or Thunderbolt™ (up to 5120x3200@60Hz)

### Chipset

#### Chipset

Intel WM590 chipset

### Memory

#### Max Memory<sup>[1]</sup>

Up to 128GB, both ECC and non-ECC

#### Memory Slots

Four DDR4 SO-DIMM slots, dual-channel capable

#### Memory Type

- DDR4-3200 ECC
- DDR4-3200 non-ECC

#### Memory Protection

ECC on models with ECC DIMMs and Xeon processor

## 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 three M.2 2280 SSD, up to 2TB each

### Storage Slot<sup>[1]</sup>

Three M.2 2280 PCIe slots for SSD:

- 1x M.2 2280 PCIe Gen 4x4 slot, supports M.2 2280 SSD
- 2x M.2 2280 PCIe Gen 3x4 slots, supports M.2 2280 SSD

### Storage Type

Disk Type	Interface	RPM	Offering	Security
M.2 2280 SSD	PCIe NVMe	-	256GB / 512GB / 1TB / 2TB	Opal2

### RAID

RAID 0/1 support on two M.2 PCIe Gen 3x4 slots

## Notes:

1. M.2 PCIe Gen 4 SSD in a M.2 PCIe Gen 3 slot runs at PCIe Gen 3 speeds

## Removable Storage

### Optical

None

### Card Reader

SD card reader

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

### Speakers

Stereo speakers, Dolby® Atmos®

### Microphone

- Dual array microphone, near-field
- No microphone

### Camera

- IR & 720p hybrid, with privacy shutter, fixed focus
- No camera

## Battery

### Battery

Integrated Li-Polymer 94Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 230W AC adapter

### Max Battery Life<sup>[1]</sup>

MobileMark® 2018: 8.3 hr

JEITA 2.0: 11 hr

## 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

- 170W slim tip AC adapter (3-pin)
- 230W slim tip AC adapter (3-pin)

## DESIGN

### Display

#### Display<sup>[2]</sup>

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
17.3"	FHD (1920x1080)	None	IPS	300 nits	Anti-glare	16:9	800:1	100% sRGB	170°	-
17.3"	UHD (3840x2160)	None	IPS	500 nits	Anti-glare	16:9	1000:1	100% Adobe®	170°	Dolby Vision™, HDR 400

#### Color Calibration

X-Rite Pantone factory color calibration (UHD display)

#### Touchscreen

Non-touch

#### 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>
- For non-OLED display, HDR is only supported under hybrid mode

### Input Device

#### Pen

None

#### Keyboard

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

#### Keyboard Backlight

LED backlight

#### UltraNav™

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

### Mechanical

#### Dimensions (WxDxH)

415.44 x 280.81 x 24.31-32.45 mm (16.36 x 11.06 x 0.96-1.28 inches)

#### Weight<sup>[1]</sup>

3.67 kg (8.09 lbs)

#### Case Color

Black

#### Case Material

PPS695 + GF 50% (top), PA + 50% GF (bottom)

#### Notes:

- The system weight varies depending on configurations

## CONNECTIVITY

### Network

#### Onboard Ethernet

- 2.5GbE, Intel Ethernet Connection I225-LM (vPro models), supports Wake-on-LAN
- 2.5GbE, Intel Ethernet Connection I225-V (non-vPro models), supports Wake-on-LAN

#### WLAN + Bluetooth®

- Intel Wi-Fi 6E AX210, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2
- No WLAN and Bluetooth

**WWAN**

- Wireless WAN upgradable to 4G
- Integrated Mobile Broadband 4G LTE, Quectel EM160R, MIMO 4x4, M.2 card, with embedded eSIM functionality
- No support

**SIM Card**

No SIM card inbox

**NFC**

No support

**Ports<sup>[1]</sup>****Standard Ports<sup>[2]</sup>**

- 2x USB 3.2 Gen 1 (one Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 2x Thunderbolt 4 / USB4™ 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4a)
- 1x HDMI 2.1 (HDMI 2.0 on NVIDIA T1200 model)
- 1x SD card reader
- 1x Ethernet (2.5GbE RJ-45)
- 1x headphone / microphone combo jack (3.5mm)
- 1x Security keyhole

**Optional Ports**

- 1x Nano-SIM card slot (WWAN model)
- 1x Smart card reader

**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

**Monitor Cable****Monitor Cable**

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to DisplayPort Adapter
- Lenovo USB-C to VGA Adapter
- No monitor cable

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

Discrete TPM 2.0, TCG certified

**Physical Locks**

Kensington® Security Slot (3 x 7 mm)

**Smart Card Reader**

- Smart card reader
- No smart card reader

**Fingerprint Reader**

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

**BIOS Security**

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

## MANAGEABILITY

### System Management

#### System Management

- Intel vPro Technology, DASH
- None

## SERVICE

### Warranty

#### Base Warranty

- 1-year depot service
- 1-year depot with 2-year system board service
- 3-year (1-yr battery) depot service
- 3-year (1-yr battery) limited onsite service

## ENVIRONMENTAL

### Operating Environment

#### Temperature<sup>[1]</sup>

- Storage and transportation in original shipping packaging: -20°C (-4°F) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)
- Operating: 5°C (41°F) to 35°C (95°F)

#### Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage and transportation: 5% to 95% at wet-bulb temperature 27°C (81°F)

#### Altitude

Maximum altitude (without pressurization): 3048 m (10,000 ft)

#### Notes:

1. When you charge the battery, its temperature must be no lower than 10°C (50°F)

## CERTIFICATIONS

### Green Certifications

#### Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- RoHS compliant

### Other Certifications

#### Mil-Spec Test

MIL-STD-810H military test passed

### ISV Certifications

#### ISV Certifications

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

