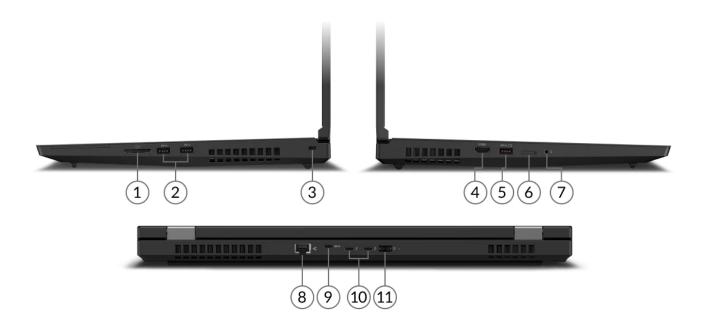


# **OVERVIEW**



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

## Notes:

• Ports with \* are only available on selected models



## **PERFORMANCE**

### **Processor**

#### **Processor Family**

10th 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 i5-10400H	4	8	2.6GHz	4.6GHz	8MB	DDR4-2933	Intel UHD 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	DDR4-3200	Intel UHD Graphics
Core i9-10885H	8	16	2.4GHz	5.3GHz	16MB	DDR4-2933	Intel UHD Graphics
Core i9-10980HK	8	16	2.4GHz	5.3GHz	16MB	DDR4-3200	Intel UHD Graphics
Xeon W-10855M	6	12	2.8GHz	5.1GHz	12MB	DDR4-2933	Intel UHD Graphics
Xeon W-10885M	8	16	2.4GHz	5.3GHz	16MB	DDR4-2933	Intel UHD Graphics

# **Operating System**

### Operating System\*\*

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

## **Graphics**

### Graphics\*\*

Graphics	Туре	Memory	Key Features
NVIDIA® Quadro® RTX 3000	Discrete	6GB GDDR6	Dynamic Boost 2.0, DirectX® 12
NVIDIA Quadro T1000	Discrete	4GB GDDR6	DirectX 12
NVIDIA Quadro T2000	Discrete	4GB GDDR5	DirectX 12
NVIDIA Quadro RTX 4000 with Max-Q Design	Discrete	8GB GDDR6	DirectX 12
NVIDIA Quadro RTX 5000 with Max-Q Design	Discrete	16GB GDDR6	DirectX 12

# **Monitor Support**

## **Monitor Support**

Supports up to 5 independent displays (native display and 4 external monitors via HDMI®, USB-C® and Thunderbolt™)

- HDMI supports up to 4K@60Hz
- USB-C supports up to 4K@60Hz
- Thunderbolt supports up to 4K@60Hz / 5K@60Hz

## Chipset

## Chipset

Intel WM490 chipset

## **Memory**

## Max Memory[1]

Up to 128GB DDR4-2933

### **Memory Slots**

Four DDR4 SO-DIMM slots, dual-channel capable

Memory Type\*\*[2]

## ThinkPad P17 Gen 1



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

## **Storage**

#### Storage Support[1]

Up to two drives, 2x M.2 SSD

• M.2 2280 SSD up to 2TB

#### Storage Type

Disk Type	Interface	RPM	Security
M.2 2280 SSD	PCle® NVMe®, PCle 3.0 x4	-	Opal2

#### **RAID**

RAID 0/1 support

### Notes:

1. The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

## **Removable Storage**

#### **Optical**

None

### Card Reader

SD card reader

## Multi-Media

### **Audio Chip**

High Definition (HD) Audio, Realtek® ALC3286 codec

### **Speakers**

Stereo speakers, Dolby® Atmos®

#### Microphone

- · Dual array microphone, far-field
- · No microphone

#### Camera

- IR & HD 720p hybrid, with ThinkShutter, 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[1]

MobileMark® 2014: 14.6 hr MobileMark 2018: 9.75 hr

JEITA 2.0: 16.6 hr

#### Notes:

1. All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, JEITA 2.0, continuous 1080p video playback (with 150nits brightness and default volume level) or Google Power Load Test (PLT) 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\*\*[1]

- 170W slim tip (2-pin) AC adapter, 100-240V, 50-60Hz
- 170W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- 230W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

#### Notes:

1. AC adapter offerings depend on the country.

## **DESIGN**

## **Display**

### Display\*\*[1][2]

Size	Resolution	Touch	Туре	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
17.3"	FHD (1920x1080)	None	IPS	300 nits	Anti- glare	16:9	700:1	72% NTSC	160°	-
17.3"	UHD (3840x2160)	None	IPS	500 nits	Anti- glare	16:9	1500:1	100% Adobe® RGB	178°	Dolby Vision™, DisplayHDR™ 400

#### **Color Calibration**

- X-Rite® Pantone® factory color calibration (UHD display)
- · No color calibration

#### **Touchscreen**

Non-touch

#### Notes:

1. 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

2. For non-OLED display, HDR is only supported under hybrid mode.

# **Input Device**

### Pen

No support

#### 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**<sup>®</sup>

### Dimensions (WxDxH)

415.44 x 280.81 x 25.11-33.25 mm (16.36 x 11.06 x 0.99-1.31 inches)

### Weight

Models	Weight			
FHD models	3.5 kg (7.7 lbs)			

#### **Case Color**

Black

#### **Case Material**

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



#### Notes:

1. The system dimensions and weight vary depending on configurations.

### CONNECTIVITY

#### **Network**

#### Onboard Ethernet\*\*

- · Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro models), supports Wake-on-LAN
- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), supports Wake-on-LAN

#### WLAN + Bluetooth®

- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

#### WWAN\*\*

- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- No support

#### SIM Card

No SIM card inbox

# Notes:

1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation

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

#### **Standard Ports**

- 3x USB 3.2 Gen 1 (one Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery and DisplayPort™ 1.4)
- 2x Thunderbolt 3 (support data transfer, Power Delivery, and DisplayPort 1.4)
- 1x HDMI 2.0
- 1x SD card reader
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)

### Optional Ports\*\*\*

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

#### 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 3/4: 40 Gbit/s

## **Docking**

### **Docking**

Various docking solutions supported via Thunderbolt or USB-C.

For more compatible docking solutions, please visit <u>Docking for ThinkPad® P17 Gen 1</u>

## **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
- · Firmware TPM 2.0 integrated in chipset
- Disabled (in some regions)

#### **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**

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

#### **Other Security**

(Optional) IR camera for Windows Hello

## **MANAGEABILITY**

## **System Management**

#### System Management[1]

- Intel vPro
- Non-vPro

## Notes:

1. Intel vPro offers a superset of DASH's defined capabilities.

## **SERVICE**

## Warranty

## Base Warranty\*\*[1]

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

#### Notes

1. More information of warranty policy, please access https://pcsupport.lenovo.com/warranty

## **ENVIRONMENTAL**

# **Operating Environment**

### Temperature[1]

- Operating: 5°C (41°F) to 35°C (95°F)
- 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)

#### 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).

## **ACCESSORIES**

### **Bundled Accessories**

**Bundled Accessories** 

None

## **CERTIFICATIONS**

# **Green Certifications**

### **Green Certifications**

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

### **Other Certifications**

Mil-Spec Test

MIL-STD-810G military test passed

#### **ISV Certifications**

#### **ISV Certifications**

Please visit www.thinkworkstations.com/isv-certifications/

- Feature with \*\* means that only one offering listed under the feature is configured on selected models.
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