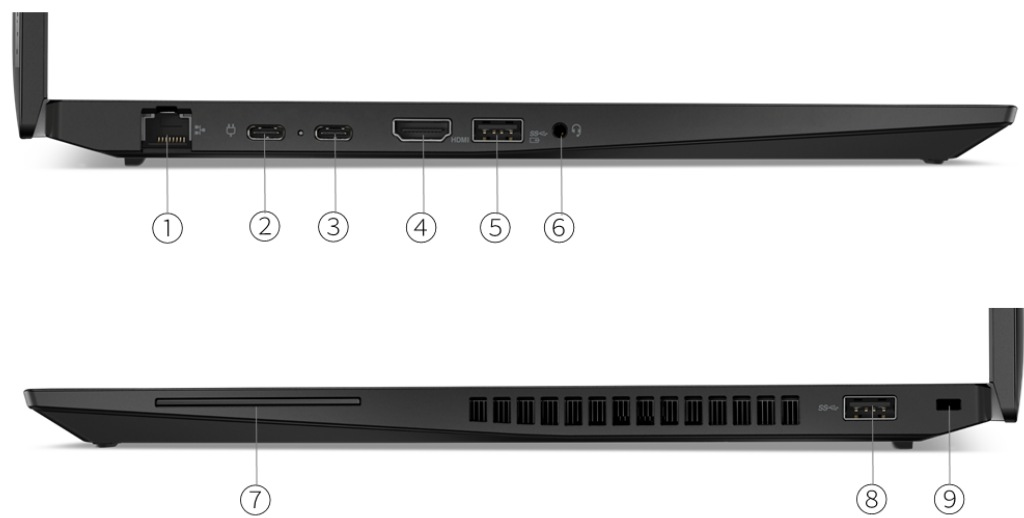


OVERVIEW



| | |
|------------------------------|--|
| 1. Ethernet (RJ-45) | 6. Headphone / microphone combo jack (3.5mm) |
| 2. USB-C 3.2 Gen 2 | 7. Smart card reader * |
| 3. USB-C 3.2 Gen 2 | 8. USB 3.2 Gen 1 |
| 4. HDMI | 9. Security keyhole |
| 5. USB 3.2 Gen 1 (Always On) | |

- Notes:
- Ports with * are only available on selected models
 - Two USB-C 3.2 Gen 2 ports support data transfer, Power Delivery and DisplayPort 1.4

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 PRO 6000 Series Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|-----------------------|-------|---------|----------------|---------------|------------------|----------------|---------------------------|
| AMD Ryzen 5 PRO 6650U | 6 | 12 | 2.9GHz | 4.5GHz | 3MB L2 / 16MB L3 | LPDDR5-6400 | AMD Radeon™ 660M Graphics |
| AMD Ryzen 7 PRO 6850U | 8 | 16 | 2.7GHz | 4.7GHz | 4MB L2 / 16MB L3 | LPDDR5-6400 | AMD Radeon 680M Graphics |

Operating System

Operating System^[1]

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 DG Windows 10 Pro 64
- Ubuntu Linux
- Red Hat Enterprise Linux (certified only)

Notes:

1. As preloaded OS, Ubuntu Linux will be available in September 2022

Graphics

Graphics**

| Graphics | Type | Memory | TGP | Key Features |
|-----------------|------------|--------|----------------|--------------|
| AMD Radeon 660M | Integrated | Shared | Shares CPU TDP | DirectX® 12 |
| AMD Radeon 680M | Integrated | Shared | Shares CPU TDP | DirectX 12 |

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB-C®)

- HDMI supports up to 3840x2160@60Hz
- USB-C supports up to 5120x2880@120Hz (USB-C to DP)

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5-6400

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^[1]

One drive, up to 2TB M.2 2280 SSD

Storage Slot

One M.2 2280 PCIe® Gen 4x4 slot, supports M.2 2280 SSD

Storage Type**

| Disk Type | Interface | RPM | Offering | Security |
|--------------|-------------------------------------|-----|---------------------|----------|
| M.2 2280 SSD | PCIe NVMe®, PCIe 4.0 x4 Performance | - | 512GB / 1TB / 2TB | Opal2 |
| M.2 2280 SSD | PCIe NVMe, PCIe 4.0 x4 Value | - | 256GB / 512GB / 1TB | Opal2 |

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

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby® Audio™

Microphone

- Dual array microphone, far-field
- No microphone

Camera**

- HD 720p, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- IR & FHD 1080p hybrid, with privacy shutter, fixed focus
- No camera

Battery

Battery**

- Integrated Li-Polymer 52.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 86Wh battery

Power Adapter

Power Adapter**[1]

- 65W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C slim (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:

1. AC adapter offerings depend on the country.

DESIGN

Display

Display**[1]

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Key Features |
|-------|-------------------|-------|------|------------|------------|--------------|----------------|-------------|---------------|--------------|
| 16.0" | WUXGA (1920x1200) | None | IPS | 300 nits | Anti-glare | 16:10 | 800:1 | 45% NTSC | 170° | DC dimming |

| | | | | | | | | | | |
|-------|-------------------|-------------|-----|----------|------------|-------|--------|-----------|------|---|
| 16.0" | WUXGA (1920x1200) | None | IPS | 400 nits | Anti-glare | 16:10 | 1000:1 | 100% sRGB | 178° | ICC Template color calibration, Low power, Low blue light, TUV Eye Comfort, DC dimming |
| 16.0" | WUXGA (1920x1200) | Multi-touch | IPS | 300 nits | Anti-glare | 16:10 | 800:1 | 45% NTSC | 170° | DC dimming |
| 16.0" | WUXGA (1920x1200) | Multi-touch | IPS | 500 nits | Anti-glare | 16:10 | 1000:1 | 100% sRGB | 170° | ThinkPad® Privacy Guard, Low Blue Light, TUV Eye Comfort, DC dimming |
| 16.0" | WQXGA (2560x1600) | None | IPS | 400 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 170° | Dolby Vision™, X-Rite® Pantone® Factory Color Calibration (ΔE<2), Low blue light, TUV Eye Comfort, DC dimming |

Color Calibration**

- X-Rite Pantone factory color calibration (WQXGA display)
- ICC Template color calibration (selected WUXGA display)
- No color calibration

Touchscreen

- Capacitive-type on-cell multi-touch, supports 10-point touch
- 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>

Input Device

Keyboard

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

Keyboard Backlight

- LED backlight
- Non-backlight

UltraNav™

3-button TrackPoint® pointing device and glass-like Mylar® surface multi-touch touchpad, 67 x 115 mm (2.64 x 4.53 inches)

Mechanical^[1]

Dimensions (WxDxH)

361.98 x 255.5 x 20.5 mm (14.25 x 10.06 x 0.81 inches)

Weight

| Models | Weight |
|------------------------|---------------------------------|
| Model with black cover | Starting at 1.734 kg (3.82 lbs) |
| Model with grey cover | Starting at 1.779 kg (3.92 lbs) |

Case Color**^[2]

- Black
- Storm grey

Case Material**

- Model with black cover: PC 50% GF + PC 20% CF (top), PPS (bottom)
- Model with grey cover: Aluminium (top), PPS (bottom)

Notes:

1. The system dimensions and weight vary depending on configurations.
2. Storm grey case will be available on September 2022

CONNECTIVITY

Network

Onboard Ethernet**

- Gigabit Ethernet, supports Wake-on-LAN
- Gigabit Ethernet, supports Wake-on-LAN and AMD Pro Manageability
- Gigabit Ethernet, supports Wake-on-LAN and AMD Pro Manageability + USB-C to GbE RJ-45 Dongle

WLAN + Bluetooth®**[1]

- AMD RZ616, Wi-Fi® 6E, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.2
- Qualcomm® NFA-725A Wi-Fi 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2

WWAN**

- Wireless WAN upgradable to 4G (with antenna ready)
- Integrated Mobile Broadband 4G LTE, Quectel EM05-G, CAT4, M.2 card
- Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, CAT16, M.2 card
- No support

SIM Card

- Gemalto eSIM
- No SIM card inbox

NFC

- Near Field Communication
- No support

Notes:

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

Ports^[1]

Standard Ports

- 2x USB 3.2 Gen 1 (one Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery and DisplayPort™ 1.4)
- 1x HDMI, up to 4K/60Hz
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Security keyhole

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 USB-C.

For more compatible docking solutions, please visit [Docking for ThinkPad P16s Gen 1 \(AMD\)](#)

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^[1]

Firmware TPM 2.0 integrated in SoC

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 power button, match-on-chip
- No fingerprint reader

BIOS Security

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

Other Security

- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello

Notes:

1. Discrete TPM 2.0 is for special bid only.

MANAGEABILITY

System Management

System Management

- AMD Pro Manageability
- Non-DASH

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

Sustainability

Material

97% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the 52.5Wh battery
95% PCC recycled plastic used in standard 65W adapter
Low-temperature solder
90% recycled and/or sustainable packaging

Operating Environment

Temperature^[1]

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping package: -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).

CERTIFICATIONS

Green Certifications

Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- TCO Certified 9.0
- RoHS compliant

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) TÜV Rheinland® Eye Comfort Certification
- (Optional) TÜV Rheinland Low Blue Light

ISV Certifications

ISV Certifications

Please visit [ISV certifications for Lenovo Workstations](#)

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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