

OVERVIEW



|                   |  |
|-------------------|--|
| 1. USB4           | 5. Headphone / microphone combo jack (3.5mm) |
| 2. USB4           | 6. USB-C 3.2 Gen 2                           |
| 3. SD card reader | 7. Kensington Nano Security Slot             |
| 4. Power button   |  |

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 / 9 Processor

Processor\*\*

| Processor Name         | Cores | Threads | Base Frequency | Max Frequency | Cache            | Processor Graphics |
|------------------------|-------|---------|----------------|---------------|------------------|--------------------|
| AMD Ryzen 5 PRO 7640HS | 6     | 12      | 4.3GHz         | 5.0GHz        | 6MB L2 / 16MB L3 | AMD Radeon™ 760M   |
| AMD Ryzen 7 PRO 7840HS | 8     | 16      | 3.8GHz         | 5.1GHz        | 8MB L2 / 16MB L3 | AMD Radeon 780M    |
| AMD Ryzen 9 PRO 7940HS | 8     | 16      | 4.0GHz         | 5.2GHz        | 8MB L2 / 16MB L3 | AMD Radeon 780M    |

Operating System

Operating System\*\*

- Fedora Linux<sup>[1]</sup>
- Linux<sup>[2]</sup>
- Ubuntu Linux<sup>[3]</sup>
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

Notes:

[1], [2], [3] Some features may not be supported on the system with Linux preload, including but not limited to Intel® RST RAID, MIPI computer vision camera, WWAN, Human Presence Detection, etc.

Graphics

Graphics\*\*

| Graphics            | Type       | Memory    | Key Features        |
|---------------------|------------|-----------|---------------------|
| AMD Radeon 760M     | Integrated | Shared    | DirectX® 12         |
| AMD Radeon 780M     | Integrated | Shared    | DirectX 12          |
| AMD Radeon RX 6550M | Discrete   | 4GB GDDR6 | DirectX 12 Ultimate |

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via USB4® or USB-C®)

- USB-C supports up to 4K@60Hz (4 displays output), 5K@60Hz (3 displays output) or 5K@120Hz (up to 2 displays output)
- USB4 supports up to 8K@30Hz<sup>[1]</sup>

Notes:

[1] 8K resolution support needs 2 display pipes. That is, simultaneous display number will “-1” when 8K resolution displayed.

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory

- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable
- 64GB soldered memory, not upgradable<sup>[1]</sup>

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5x-6400<sup>[2]</sup>

Notes:

- [1] Available for AMD Ryzen 9 PRO models only.
- [2] Installed memory is actually 7500MHz but run at 6400MHz due to platform limitation.

Storage

Storage Support<sup>[1]</sup>

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

Storage Slot

One M.2 2280 PCIe® 4.0 x4 slot

Storage Type

| Disk Type    | Interface                           | Offering          | Security |
|--------------|-------------------------------------|-------------------|----------|
| M.2 2280 SSD | PCIe NVMe®, PCIe 4.0 x4 Performance | 512GB / 1TB / 2TB | Opal 2.0 |

Notes:

- [1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.

Removable Storage

Card Reader

SD card reader, supports UHS-II SD card

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, Dolby® Atmos®

Microphone

Dual-microphone array, 360° far-field, Dolby Voice

Camera\*\*

- FHD 1080p + IR discrete, with E-shutter, fixed focus
- FHD 1080p + IR hybrid, with E-shutter, fixed focus

Battery

Battery

Integrated Li-Polymer 72Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

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

Configuration 1 (max battery life)  
MobileMark® 25: up to 18.46 hr with 726 performance score @250nits  
JEITA 2.0: up to 25.28 hr @150nits  
Local video playback: up to 25.53 hr @150nits

Alternate configuration 2  
MobileMark 25: up to 17.75 hr with 722 performance score @250nits  
JEITA 2.0: up to 25.12 hr @150nits  
Local video playback: up to 24.61 hr @150nits

Alternate configuration 3  
MobileMark 25: up to 8.63 hr with 869 performance score @250nits  
JEITA 2.0: up to 12.11 hr @150nits  
Local video playback: up to 12.65 hr @150nits

Notes:

[1] Configuration 1 (max battery life): WUXGA (non-touch), AMD Ryzen 7 PRO 7840HS, 16GB LPDDR5x, Win 11, 72Wh battery, best power efficiency power mode  
Alternate configuration 2: WUXGA (touch), AMD Ryzen 7 PRO 7840HS, 16GB LPDDR5x, Win 11, 72Wh battery, best power efficiency power mode  
Alternate configuration 3: WQUXGA OLED (touch), AMD Ryzen 7 PRO 7840HS, 32GB LPDDR5x, AMD Radeon RX 6550M, Win 11, 72Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark 2018](#), [MobileMark 25](#), JEITA 2.0, continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level), or Google Power Load Test (PLT) battery-life benchmark tests.  
Actual battery life will vary depending on many factors such as product configuration, software, wireless functionality, power management settings, and screen brightness.  
The maximum capacity of the battery will decrease with time, ambient temperature and use.  
Refer to [Microsoft® link](#) for more information about the Windows Performance power slider.

## Power Adapter

### Power Adapter<sup>[1]</sup>

135W 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\*\*

| Size | Resolution         | Touch         | Type               | Brightness | Surface                      | Aspect Ratio | Contrast Ratio | Color Gamut | Refresh Rate | Viewing Angle (L/R/U/D)       | Key Features   |
|------|--------------------|---------------|--------------------|------------|------------------------------|--------------|----------------|-------------|--------------|-------------------------------|--|
| 16"  | WUXGA (1920x1200)  | None          | IPS <sup>[1]</sup> | 400nits    | Anti-glare                   | 16:10        | 1000:1         | 100% sRGB   | 60Hz         | 89°/89°/80°/80°               | Low power, TÜV Low Blue Light, 92.3% screen to body ratio                      |
| 16"  | WUXGA (1920x1200)  | On-cell touch | IPS <sup>[2]</sup> | 400nits    | Anti-reflection, anti-smudge | 16:10        | 1000:1         | 100% sRGB   | 60Hz         | 89°/89°/80°/80°               | Low power, TÜV Low Blue Light, 92.3% screen to body ratio                      |
| 16"  | WQUXGA (3840x2400) | OGS touch     | OLED               | 400nits    | Anti-reflection, anti-smudge | 16:10        | 100000:1       | 100% DCI-P3 | 60Hz         | 87.5° / 87.5° / 87.5° / 87.5° | 92.3% screen to body ratio, DisplayHDR™ 400, Dolby Vision™, TÜV Low Blue Light |

#### Touchscreen\*\*

- OGS (One Glass Solution) multi-touch, supports 10-point touch
- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:  
[1], [2] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

## Input Device

### Pen

- No pen (purchase separately)
- No support (non-touch display doesn't support pen input)

Keyboard

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

Keyboard Backlight

LED backlight

UltraNav™

TrackPoint® pointing device and glass surface multi-touch Haptic TouchPad, 80 x 120 mm (3.15 x 4.72 inches)

Mechanical

Dimensions (WxDxH)<sup>[1]</sup>

354.4 x 237.4 x 15.8 mm (13.95 x 9.35 x 0.62 inches)

Weight<sup>[2]</sup>

| Models                   | Weight                         |
|--------------------------|--------------------------------|
| OLED models              | Starting at 1.81 kg (3.99 lbs) |
| WUXGA non-touch models   | Starting at 1.83 kg (4.04 lbs) |
| WUXGA multi-touch models | Starting at 1.94 kg (4.28 lbs) |

Case Color

Arctic grey (top), black (bottom)

Case Material

Aluminium (top), aluminium (bottom)

Notes:

[1] The system dimensions may vary depending on configurations.

[2] The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

CONNECTIVITY

Network

Ethernet

No onboard Ethernet<sup>[1]</sup>

WLAN + Bluetooth®

MediaTek Wi-Fi® 6E RZ616, 802.11ax 2x2 Wi-Fi + Bluetooth 5.3<sup>[2]</sup>

WWAN

No support

NFC

No support

Notes:

[1] Ethernet support via optional Lenovo USB-C to Ethernet Adapter.

[2] Wi-Fi 6E full features might be limited by country-level restrictions.

Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

6GHz Wi-Fi 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi 6E, and the regional regulatory certifications & spectrum allocation.

Bluetooth 5.3 operation requires Windows 11. For more information please see [General Bluetooth Support Information on Microsoft](#).

Ports<sup>[1]</sup>

Standard Ports

- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
- 2x USB4 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4a)
- 1x SD card reader
- 1x Headphone / microphone combo jack (3.5mm)

**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;

USB4 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4 40Gbps (USB 40Gbps): 40 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® Z16 Gen 2](#)

## Monitor Cable

### Monitor Cable\*\*\*

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

## SECURITY & PRIVACY

### Security

#### Security Chip

Discrete TPM 2.0 (TCG certified, FIPS 140-2 certified) and Microsoft Pluton TPM 2.0, one enabled at one time

#### Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

#### Smart Card Reader

No smart card reader

#### Fingerprint Reader

Touch style fingerprint reader in keyboard key, match-on-chip

#### BIOS Security

- Power-on password
- Supervisor password
- System management password
- NVMe password
- FIDO (Fast Identity Online) authentication
- Certificate based BIOS authentication
- Self-healing BIOS

#### Other Security

- IR camera for Windows Hello
- E-shutter
- Glance by Mirametrix®

## MANAGEABILITY

### System Management

#### System Management

- DASH
- Non-DASH

## SERVICE

## Warranty

### Base Warranty\*\*

- 1-year courier or carry-in service
- 1-year courier or carry-in with 2-year system board service (Korea only)
- 1-year limited onsite service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service
- No base warranty<sup>[1]</sup>

Notes:

<sup>[1]</sup> No base warranty is for special bid only.

## ENVIRONMENTAL

### Sustainability

#### Material

75% recycled aluminium on top cover  
55% recycled aluminium on bottom cover  
90% PCC recycled plastic used in speaker enclosure  
90% PCC recycled plastic used in the 72Wh battery pack  
90% PCC recycled plastic used in standard 135W adapter  
Low-temperature solder  
FSC certified plastic free packaging with bamboo + sugarcane fiber retail box / standard cushion

### Operating Environment

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

- 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:

<sup>[1]</sup> When you charge the battery, its temperature must be no lower than 10°C (50°F).

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories\*\*\*<sup>[1]</sup>

- Lenovo Powered USB-C Travel Hub
- Lenovo USB-C to Ethernet Adapter (1Gbps)
- Lenovo USB-C to USB-A Adapter
- None

Notes:

<sup>[1]</sup> For more compatible accessory solutions, please visit [Accessories for ThinkPad Z16 Gen 2](#).

## CERTIFICATIONS

### Green Certifications<sup>[1]</sup>

#### Green Certifications

- (Optional) ENERGY STAR® 8.0

- (Optional) EPEAT™ Gold Registered<sup>[2]</sup>
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 9.0

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**Notes:**

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

[2] EPEAT is registered where applicable, please see <https://www.epeat.net> for registration status by country.

## Other Certifications

### Mil-Spec Test

MIL-STD-810H military test passed

### Other Certifications

TÜV Rheinland® Low Blue Light

- 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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