

## 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

### AI (Artificial Intelligence)

#### AI PC Category

AI PC

#### NPU

Integrated AMD Ryzen™ AI, up to 10 TOPS

### Operating System

#### Operating System\*\*

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 DG Windows® 10 Pro 64
- Fedora Linux<sup>[1]</sup>
- Ubuntu Linux<sup>[2]</sup>
- Linux<sup>[3]</sup>
- No preload 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® and 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 LPDDR5x-7500 but run as LPDDR5x-6400 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<sup>[1]</sup>

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

### Battery Life<sup>[2]</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] Rapid charge is only guaranteed when the computer is turned off or in standby mode or in hibernation mode. When the computer is powered on, the Charge Time will vary depending on system power consumption and AC adapter power.

[2] 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® 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 (Hardware Solution), 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 (Hardware Solution), 92.3% screen to body ratio
16"	WQUXGA (3840x2400)	OGS touch	OLED	400nits	Anti-reflection, anti-smudge	16:10	100,000:1	100% DCI-P3	60Hz	87.5° / 87.5° / 87.5° / 87.5°	DisplayHDR™ 400, Dolby Vision®, TÜV Low Blue Light (Hardware Solution), 92.3% screen to body ratio

**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, double-tap to open the TrackPoint® Quick Menu  
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 visit [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 Headphone / microphone combo jack (3.5mm)
- 1x SD 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;

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](#)

## 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

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

#### Other Security

- E-shutter
- Glance by Mirametrix®
- IR camera for Windows® Hello (facial recognition)

## 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:

[1] No base warranty is for special bid only.

## ACCESSORIES

### Bundled Accessories

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

- Lenovo® Powered USB-C® Travel Hub
- Lenovo® USB-C® to DisplayPort™ Adapter
- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- Lenovo® USB-C® to HDMI® Adapter
- Lenovo® USB-C® to USB-A Adapter
- Lenovo® USB-C® to VGA Adapter
- None

Notes:

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

## OPERATING REQUIREMENTS

### 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)

#### Relative 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).

## ENVIRONMENTAL

### Sustainability

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

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 frame  
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

Notes:

[1] PCC: Post Consumer Content, recycled materials from customers.

## CERTIFICATIONS

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

#### Green Certifications<sup>[2]</sup>

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered<sup>[3]</sup>
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 9.0

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit <https://compliance.lenovo.com>.

[2] EPEAT™ registration and ENERGY STAR® certification are optional and only available on the models with preloaded OS. Please visit [epeat.net](https://epeat.net) and [energystar.gov](https://energystar.gov) for more information.

[3] EPEAT™ is registered where applicable, please visit [epeat.net](https://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 (Hardware Solution)

- Feature with \*\* means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
- Feature with \*\*\* means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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