# **OVERVIEW**



1. Headphone / microphone combo jack (3.5mm)	3. USB4
2. Power button	4. USB4

# PERFORMANCE

## Processor

## Processor Family

AMD Ryzen<sup>™</sup> 5 / 7 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
AMD Ryzen 7 PRO 6860Z	8	16	2.7GHz	4.725GHz	4MB L2 / 16MB L3	LPDDR5- 6400	AMD Radeon 680M Graphics

## **Operating System**

## **Operating System**\*\*

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

## Graphics

### Graphics\*\*

Graphics	Туре	Memory	Key Features	
AMD Radeon 660M	Integrated	Shared	DirectX® 12	
AMD Radeon 680M	Integrated	Shared	DirectX 12	

## **Monitor Support**

## Monitor Support<sup>[1]</sup>

Supports up to 3 independent displays (native display and 2 external monitors via USB4®)

USB4 supports up to 8K@30Hz

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<sup>[1]</sup>

- 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<sup>[1]</sup>

One drive, up to 1TB M.2 2242 SSD

## Storage Slot

One M.2 2242 PCIe<sup>®</sup> 4.0 x4 slot

## Storage Type

Disk Type	Interface	Offering	Security
M.2 2242 SSD	PCIe NVMe®, PCIe 4.0 x4	256GB / 512GB / 1TB	Opal 2.0

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® ALC3306 codec

### Speakers

Stereo speakers, 2W x2, Dolby<sup>®</sup> Atmos<sup>®</sup>

### Microphone

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

### Camera\*\*

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

## **Battery**

## Battery

Integrated Li-Polymer 51.5Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

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

Configuration 1 (max battery life) MobileMark® 2018: up to 18.33 hr with 666 performance score @200nits MobileMark 25: up to 16.66 hr with 759 performance score @250nits JEITA 2.0: up to 22.8 hr @150nits Local video playback: up to 22.8 hr @150nits

Alternate configuration 2 MobileMark 2018: up to 17.93 hr with 651 performance score @200nits MobileMark 25: up to 14.3 hr with 785 performance score @250nits JEITA 2.0: up to 22.1 hr @150nits Local video playback: up to 21.35 hr @150nits

Alternate configuration 3 MobileMark 2018: up to 7.81 hr with 635 performance score @200nits MobileMark 25: up to 7.4 hr with 794 performance score @250nits JEITA 2.0: up to 11.71 hr @150nits Local video playback: up to 13.55 hr @150nits

#### Notes:

- 1. Configuration 1 (max battery life): WUXGA (non-touch), AMD Ryzen 7 PRO 6850U, 16GB LPDDR5, Win 11, 51.5Wh battery, best power efficiency power mode
- Alternate configuration 2: WUXGA (non-touch), AMD Ryzen 5 PRO 6650U, 16GB LPDDR5, Win 11, 51.5Wh battery, best power efficiency power mode
  - Alternate configuration 3: 2.8K OLED (touch), AMD Ryzen 5 PRO 6650U, 32GB LPDDR5, Win 11, 51.5Wh battery, best power efficiency

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power mode

All battery life claims are approximate maximum and based on results using <u>MobileMark 2018</u>, <u>MobileMark 25</u>, 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 and depends 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 <u>Microsoft<sup>®</sup> link</u> for more information about the Windows Performance power slider.

Refer to <u>merosore mix</u> for more mo

## **Power Adapter**

#### Power Adapter\*\*[1][2]

- 65W USB-C<sup>®</sup> (2-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
- 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
- No power adapter

Notes:

1. AC adapter offerings depend on the country.

2. No power adapter is for special bid only.

# DESIGN

## Display

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

Size	Resolution	Touch	Туре	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
13.3″	WUXGA (1920x1200)	None	IPS	400 nits	Anti-glare	16:10	1500:1	100% sRGB	178°	Low power, TÜV Low Blue Light, 91.6% screen to body ratio
13.3″	WUXGA (1920x1200)	On-cell touch	IPS	400 nits	Anti- reflection, Anti- smudge	16:10	1500:1	100% sRGB	178°	Low power, TÜV Low Blue Light, 91.6% screen to body ratio
13.3″	2.8K (2880x1800)	OGS touch	OLED	SDR 400nits / HDR 500nits	Anti- reflection, Anti- smudge	16:10	100000:1	100% DCI-P3	175°	TÜV Low Blue Light, Dolby Vision™, 91.6% screen to body ratio

#### Touchscreen\*\*

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

### Pen

No pen (purchase separately)

#### Keyboard

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

#### Keyboard Backlight

LED backlight

## UltraNav™

# ThinkPad Z13 Gen 1

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TrackPoint® pointing device and glass surface multi-touch Haptic ForcePad, 67 x 120 mm (2.64 x 4.72 inches)

## **Mechanical**<sup>III</sup>

## Dimensions (WxDxH)

294.4 x 199.6 x 13.99 mm (11.59 x 7.86 x 0.55 inches)

## Weight

Models	Weight
Touch models	Starting at 1.26 kg (2.78 lbs)
Non-touch models	Starting at 1.19 kg (2.63 lbs)

#### Case Color\*\*[2]

- Arctic grey (top), black (bottom)
- Black (top), black (bottom)
- Bronze with black vegan leather (top), black (bottom)

#### Case Material

Aluminium (top), aluminium (bottom)

#### Notes:

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

2. Black top cover is NOT available in NA and EMEA.

# CONNECTIVITY

## Network

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

No onboard Ethernet

### WLAN + Bluetooth®<sup>[2][3]</sup>

Qualcomm<sup>®</sup> Wi-Fi<sup>®</sup> 6E NFA725A, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

#### WWAN\*\*

- Fibocom L860-GL-16, 4G LTE CAT16, M.2 card
- Quectel EM05-G, 4G LTE CAT4, M.2 card
- No support

#### SIM Card

- Gemalto eSIM card (physical)
- No SIM card inbox

#### NFC

No support

#### Notes:

- 1. Ethernet support via optional Lenovo USB-C to Ethernet Adapter
- 2. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation
- 3. Wi-Fi 6E full features might be limited by country level restrictions.
- Wi-Fi 6E 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.

## **Ports**<sup>III</sup>

#### **Standard Ports**

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

## **Optional Ports**

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

Notes:

<sup>1.</sup> 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;

# ThinkPad Z13 Gen 1

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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 <u>Docking for ThinkPad® Z13 Gen 1</u>

## **Monitor Cable**

#### **Monitor Cable**

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

# **SECURITY & PRIVACY**

## Security

#### Security Chip\*\*

- Discrete TPM 2.0, TCG certified, with Microsoft Pluton TPM 2.0 integrated in SoC
- Microsoft Pluton TPM 2.0 integrated in SoC

#### 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
- USB FIDO (Fast Identity Online) device integration
- Certificate based BIOS authentication
- Self-healing BIOS

## Other Security

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

# MANAGEABILITY

## System Management

### System Management

- DASH
- Non-DASH

# SERVICE

## Warranty

### Base Warranty\*\*[1]

- 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

Notes:

1. No base warranty is for special bid only.

# **ENVIRONMENTAL**

## Sustainability

### Material

75% post-consumer recycled aluminum 97% PCC recycled plastic used in speaker enclosure 97% PCC recycled plastic used in the 50Wh battery 95% PCC recycled plastic used in standard 65W adapter Low-temperature solder 90% recycled and/or sustainable packaging

# 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:

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

# ACCESSORIES

## **Bundled Accessories**

### Bundled Accessories\*\*\*

- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- None

# CERTIFICATIONS

## **Green Certifications**

## Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- ErP Lot 3
- TCO Certified 9.0
- RoHS compliant

## **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
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