

**OVERVIEW**



|                   |                    |
|-------------------|--------------------|
| 1. Thunderbolt 4  | 4. USB-C 3.2 Gen 2 |
| 2. Volume buttons | 5. Thunderbolt 4   |
| 3. Power button   |                    |

Notes:

- Optional nano-SIM card slot on the left of Port 1 (not shown on the sample product above)

## PERFORMANCE

### Processor

#### Processor Family

12th Generation Intel® Core™ i5 / i7 Processor

#### Processor\*\*

| Processor Name | Cores                    | Threads | Base Frequency                | Max Frequency                 | Cache | Processor Graphics      |
|----------------|--------------------------|---------|-------------------------------|-------------------------------|-------|-------------------------|
| Core i5-1230U  | 10 (2 P-core + 8 E-core) | 12      | P-core 1.0GHz / E-core 0.7GHz | P-core 4.4GHz / E-core 3.3GHz | 12MB  | Intel Iris® Xe Graphics |
| Core i5-1240U  | 10 (2 P-core + 8 E-core) | 12      | P-core 1.1GHz / E-core 0.8GHz | P-core 4.4GHz / E-core 3.3GHz | 12MB  | Intel Iris Xe Graphics  |
| Core i7-1250U  | 10 (2 P-core + 8 E-core) | 12      | P-core 1.1GHz / E-core 0.8GHz | P-core 4.7GHz / E-core 3.5GHz | 12MB  | Intel Iris Xe Graphics  |
| Core i7-1260U  | 10 (2 P-core + 8 E-core) | 12      | P-core 1.1GHz / E-core 0.8GHz | P-core 4.7GHz / E-core 3.5GHz | 12MB  | Intel Iris Xe Graphics  |

### Operating System

#### Operating System\*\*

- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro

### Graphics

#### Graphics

| Graphics               | Type       | Memory | Key Features  |
|------------------------|------------|--------|---------------|
| Intel Iris Xe Graphics | Integrated | Shared | DirectX® 12.1 |

### Monitor Support

#### Monitor Support

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

- USB-C supports up to 3840x2160@60Hz
- Thunderbolt supports up to 5120x3200@60Hz

### Chipset

#### Chipset

Intel SoC (System on Chip) platform

### Memory

#### Max Memory

- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

#### Memory Slots

Memory soldered to systemboard, no slots, 8-channel

#### Memory Type

LPDDR5-5200

### Storage

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

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

#### Storage Slot

One M.2 2242 PCIe® 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.

**Removable Storage****Card Reader**

No card reader

**Multi-Media****Audio Chip**

High Definition (HD) Audio

**Speakers**

Stereo speakers, 2W x3, Dolby® Atmos®, 2 of 3 speakers enabled in each posture

**Microphone**

Quad-microphone array, far-field, Dolby Voice, 2 of 4 microphones enabled in each posture

**Camera\*\***

- 5.0MP + IR discrete, MIPI, fixed focus
- 5.0MP + IR discrete, MIPI, fixed focus, Computer Vision

**Battery****Battery\*\***

- Integrated Li-Polymer 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
- Integrated Li-Polymer 64Wh (48Wh + 16Wh) battery, gets 4 hours of runtime with a 30-minute charge

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

Configuration 1 (max battery life)

MobileMark® 2018: up to 11.28 hr with 834 performance score @200nits

MobileMark 25: up to 10.23 hr with 818 performance score @250nits

JEITA 2.0: up to 14.65 hr @150nits

Local video playback: up to 15.18 hr @150nits

Alternate configuration 2

MobileMark 2018: up to 11.23 hr with 830 performance score @200nits

MobileMark 25: up to 9.73 hr with 843 performance score @250nits

JEITA 2.0: up to 14.5 hr @150nits

Local video playback: up to 14.75 hr @150nits

Alternate configuration 3

MobileMark 2018: up to 8.06 hr with 768 performance score @200nits

MobileMark 25: up to 6.58 hr with 771 performance score @250nits

JEITA 2.0: up to 10.5 hr @150nits

Local video playback: up to 9.96 hr @150nits

Notes:

[1] Configuration 1 (max battery life): 2560x2024 OLED, Intel i5-1240U, 16GB LPDDR5, Win 11, 64Wh battery, best power efficiency power mode

Alternate configuration 2: 2560x2024 OLED, Intel i5-1240U, 16GB LPDDR5, Win 11, 64Wh battery, best power efficiency power mode

Alternate configuration 3: 2560x2024 OLED, Intel i5-1240U, 8GB LPDDR5, Win 11, 48Wh 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>

- 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

Notes:

<sup>[1]</sup> AC adapter offerings depend on the country.

## DESIGN

### Display

#### Display

| Size  | Resolution | Touch       | Type         | Brightness                         | Surface     | Aspect Ratio | Contrast Ratio | Color Gamut    | Viewing Angle (L/R/U/D) | Key Features   |
|-------|------------|-------------|--------------|------------------------------------|-------------|--------------|----------------|----------------|-------------------------|--|
| 16.3" | 2560x2024  | Multi-touch | Folding OLED | SDR<br>400nits /<br>HDR<br>600nits | Anti-smudge | 4:3          | 1000000:1      | 100%<br>DCI-P3 | 89°/89°/89°/89°         | 16.3" when open and 12" when folded, DisplayHDR™ True Black 600, Dolby Vision™ |

#### Touchscreen

On-cell multi-touch, supports 10-point touch

### Multi-mode

#### Multi-mode

Laptop with OSK (on screen keyboard) or split screen, laptop with keyboard, landscape with keyboard, portrait with keyboard, tablet and book

### Input Device

#### Pen\*\*

- Lenovo Precision Pen, 4096 levels of pressure sensitivity, magnetically attached to the system. For more information, please read [Lenovo Precision Pen Overview](#)
- Lenovo Precision Pen 2 with USB cable, built-in rechargeable battery, 4096 levels of pressure sensitivity, tilt detection, supports WGP, AES 2.0 and MPP 2.0 protocols. For more information, please read [Lenovo Precision Pen 2](#)
- No pen (purchase separately)

#### Keyboard

- ThinkPad® Bluetooth® TrackPoint® Keyboard and Stand. Full size keyboard with LED backlight, magnetically attachable to bottom, charging via USB-C cable. Stand supports system in both portrait & landscape modes and magnetically attaches to system in portrait mode. Living hinge for angle adjustment.<sup>[1]</sup>
- No keyboard and stand

#### Keyboard Backlight

LED backlight on optional keyboard

#### UltraNav™

TrackPoint pointing device and glass surface multi-touch touchpad with 3 haptic buttons, 50 x 110 mm (1.97 x 4.33 inches)

Notes:

<sup>[1]</sup> ThinkPad Bluetooth TrackPoint Keyboard and Stand is sold as a single unit and components are not available individually.

### Mechanical

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

Folded: 176.2 x 276.2 x 17.4 mm (6.94 x 10.87 x 0.69 inches)

Unfolded: 345.7 x 276.2 x 8.6 mm (13.61 x 10.87 x 0.34 inches)

**Weight<sup>[2]</sup>**

| Models                        | Weight  |
|-------------------------------|---|
| WLAN models with 48Wh battery | X1 Fold 16: starting at 1.26 kg (2.78 lbs)<br>Keyboard and stand: around 627 g (1.38 lbs)<br>Total: around 1.887 kg (4.16 lbs)  |
| WLAN models with 64Wh battery | X1 Fold 16: starting at 1.311 kg (2.89 lbs)<br>Keyboard and stand: around 627 g (1.38 lbs)<br>Total: around 1.938 kg (4.27 lbs) |
| WWAN models with 64Wh battery | X1 Fold 16: starting at 1.314 kg (2.9 lbs)<br>Keyboard and stand: around 627 g (1.38 lbs)<br>Total: around 1.941 kg (4.28 lbs)  |

**Case Color**

Performance black

**Case Material**

Aluminium + 100% recycled woven performance fabric

## 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<sup>[2]</sup>**Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1<sup>[3]</sup>**WWAN**

- Fibocom FM350-GL, 5G Sub-6 GHz, M.2 Card, with embedded eSIM functionality
- No support

**SIM Card**

No physical 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 limitations.

[3] 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.

**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 Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4a)

**Optional Ports**

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;

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 Thunderbolt or USB-C.

For more compatible docking solutions, please visit [Docking for ThinkPad X1 Fold 16 Gen 1](#)

## SECURITY & PRIVACY

### Security

#### Security Chip

Discrete TPM 2.0, TCG certified, FIPS 140-2 certified

#### Smart Card Reader

No smart card reader

#### Fingerprint Reader

- Touch style fingerprint reader in keyboard key, match-on-chip
- No fingerprint reader

#### BIOS Security

- Power-on password
- Supervisor password
- System management password
- NVMe password
- FIDO (Fast Identity Online) authentication
- Firmware Resiliency 3.0
- Self-healing BIOS

#### Other Security

- IR camera for Windows Hello
- Glance by Mirametrix®
- (Optional) Computer Vision-based User Presence Sensing including lock on leave
- Tile ready

## MANAGEABILITY

### System Management

#### System Management

- Intel vPro® Enterprise<sup>[1]</sup>
- Non-vPro

Notes:

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

## SERVICE

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

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

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**Notes:**

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://pcsupport.lenovo.com/warranty>.

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

## ENVIRONMENTAL

### Sustainability

#### Material

Recycled Performance Woven fabric cover  
97% PCC recycled plastic used in speaker enclosure  
97% PCC recycled plastic used in the 48Wh and 16Wh batteries  
At least 90% 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)

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**Notes:**

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

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories<sup>\*\*\*</sup>

- Lenovo Powered USB-C Travel Hub
- Lenovo USB-C to Ethernet Adapter
- None

## CERTIFICATIONS

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

#### Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered<sup>[2]</sup>
- ErP Lot 6/26
- TCO Certified 9.0
- RoHS compliant

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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

(Optional) Intel Evo™ Platform

- 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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