

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 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language

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^[1]

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[1]

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**^[1]

- 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:

^[1] 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 400nits / HDR 600nits	Anti-smudge	4:3	1,000,000:1	100% 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 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](#)
- Lenovo® Precision Pen, 4096 levels of pressure sensitivity, magnetically attached to the system. For more information, please read [Lenovo® Precision Pen Overview](#)
- 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.^[1]
- No keyboard and stand

Keyboard Backlight

LED backlight on optional keyboard

UltraNav™

TrackPoint® pointing device and glass surface multi-touch Haptic Touchpad, 50 x 110 mm (1.97 x 4.33 inches)

Notes:

^[1] ThinkPad® Bluetooth® TrackPoint® Keyboard and Stand is sold as a single unit and components are not available individually.

Mechanical

Dimensions (WxDxH)^[1]

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^[2]

Models	Weight
WLAN models with 48Wh battery	X1 Fold 16: starting at 1.26 kg (2.78 lbs) Keyboard and stand: around 627 g (1.38 lbs) Total: around 1.887 kg (4.16 lbs)
WLAN models with 64Wh battery	X1 Fold 16: starting at 1.311 kg (2.89 lbs) Keyboard and stand: around 627 g (1.38 lbs) Total: around 1.938 kg (4.27 lbs)
WWAN models with 64Wh battery	X1 Fold 16: starting at 1.314 kg (2.9 lbs) Keyboard and stand: around 627 g (1.38 lbs) 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^[1]

WLAN + Bluetooth[®]^[2]

Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1 (Bluetooth® 5.2 hardware ready)^[3]

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® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.
- [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^[1]

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
- Self-healing BIOS

Other Security

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

MANAGEABILITY

System Management

System Management

- Intel® vPro® Enterprise^[1]
- Non-vPro®

Notes:

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

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^[1]

Notes:

[1] 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^[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)

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).

ACCESSORIES

Bundled Accessories

Bundled Accessories^{***[1]}

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

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® X1 Fold 16 Gen 1](#).

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered^[3]
- 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.

[2] EPEAT™ registration and ENERGY STAR® certification are dependent on system OS. Please visit [epeat.net](#) and [energystar.gov](#) for more information.

[3] EPEAT™ is registered where applicable, please see [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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