

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	Memory Support	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	LPDDR5-5200	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	LPDDR5-5200	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	LPDDR5-5200	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	LPDDR5-5200	Intel Iris Xe Graphics

Operating System

Operating System**^[1]

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

Notes:

1. 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
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^[1]

- 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

Notes:

- 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^[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:

- 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

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:

- 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 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 [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:

- AC adapter offerings depend on the country.

DESIGN

Display

Display^[1]

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
16.3"	(2560x2024)	Multi-touch	Folding OLED	SDR 400nits / HDR 600nits	Anti-smudge	4:3	1000000:1	100% DCI-P3	178°	16.3" when open and 12" when folded, DisplayHDR™ True Black 600, Dolby Vision™

Touchscreen

On-cell touch, supports 10-point touch

Notes:

- 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>

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^[1]

- 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.
- 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:

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 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^[1]

No onboard Ethernet

WLAN + Bluetooth^{[2][3]}

Intel Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

WWAN

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

SIM Card

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^[1]

Standard Ports

- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)

- 2x Thunderbolt 4 / USB 4 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;
USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 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

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^[1]

- Intel vPro® Enterprise
- Non-vPro

Notes:

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

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

Recycled PET Woven Performance fabric cover
97% PCC recycled plastic used in speaker enclosure
97% PCC recycled plastic used in the 48Wh and 16Wh battery
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)

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

CERTIFICATIONS

Green Certifications

Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- ErP Lot 6 and Lot 26
- TCO Certified 9.0
- RoHS compliant

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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