



# Product Specifications Reference

ThinkPad Tablets



Version 631

June 5th, 2024



# Contents

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|                               |           |
|-------------------------------|-----------|
| <b>Cover</b>                  | <b>1</b>  |
| <b>Contents</b>               | <b>2</b>  |
| <b>Summary Of Change</b>      | <b>3</b>  |
| <b>ThinkPad Tablets</b>       | <b>4</b>  |
| ThinkPad X12 Detachable       | 4         |
| ThinkPad X12 Detachable Gen 2 | 12        |
| <b>Legal Information</b>      | <b>20</b> |

# Summary of Changes

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This section describes the technical changes made in this edition.

This edition might also include minor corrections and editorial changes which are not identified.

## June 5, 2024 - Version 631

### Additions in this update

- **New product(s)**

ThinkPad X12 Detachable Gen 2

- **Spec updated**

None

### Withdrawals in this update

- **Withdrawn product(s)**

None

OVERVIEW



|  |                        |
|--|------------------------|
| 1. Power button                              | 5. Thunderbolt 4       |
| 2. Volume button                             | 6. Nano-SIM card slot* |
| 3. Kensington Nano Security Slot             | 7. USB-C 3.2 Gen 2     |
| 4. Headphone / microphone combo jack (3.5mm) |                        |

- Notes:
- Items with \* are only available on selected models
  - Pogo pin connector (8-point) not shown on the sample product above

PERFORMANCE

Processor

Processor Family

11th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor\*\*

| Processor Name  | Cores | Threads | Base Frequency | Max Frequency | Cache | Processor Graphics                      |
|-----------------|-------|---------|----------------|---------------|-------|---|
| Core™ i3-1110G4 | 2     | 4       | 2.5GHz         | 3.9GHz        | 6MB   | Intel® UHD Graphics                     |
| Core™ i5-1130G7 | 4     | 8       | 1.8GHz         | 4.0GHz        | 8MB   | Intel® Iris® Xe Graphics <sup>[1]</sup> |
| Core™ i5-1140G7 | 4     | 8       | 1.8GHz         | 4.2GHz        | 8MB   | Intel® Iris® Xe Graphics <sup>[2]</sup> |
| Core™ i7-1160G7 | 4     | 8       | 2.1GHz         | 4.4GHz        | 12MB  | Intel® Iris® Xe Graphics <sup>[3]</sup> |
| Core™ i7-1180G7 | 4     | 8       | 2.2GHz         | 4.6GHz        | 12MB  | Intel® Iris® Xe Graphics <sup>[4]</sup> |

Notes:

<sup>[1]</sup>, <sup>[2]</sup>, <sup>[3]</sup>, <sup>[4]</sup> Intel® Iris® Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel® Iris® Xe Graphics will function as Intel® UHD Graphics.

Operating System

Operating System\*\*

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 DG Windows® 10 Pro 64
- Windows® 10 Pro 64
- Windows® 10 Home 64
- Windows® 10 Home 64 Single Language
- No preload operating system

Graphics

Graphics\*\*

| Graphics                                | Type       | Memory | TGP           | Key Features  |
|---|------------|--------|---------------|---------------|
| Intel® UHD Graphics                     | Integrated | Shared | Share CPU TDP | DirectX® 12   |
| Intel® Iris® Xe Graphics <sup>[1]</sup> | Integrated | Shared | Share CPU TDP | DirectX® 12.1 |

Notes:

<sup>[1]</sup> Intel® Iris® Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel® Iris® Xe Graphics will function as Intel® UHD Graphics.

Monitor Support

Monitor Support

Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via USB-C® (5120x3200@60Hz) or Thunderbolt™ (5120x3200@60Hz)

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory

- 4GB soldered LPDDR4x-3733, not upgradable
- 8GB soldered LPDDR4x-4266, not upgradable
- 16GB soldered LPDDR4x-4266, not upgradable

Memory Type\*\*

- LPDDR4x-3733

- LPDDR4x-4266<sup>[1]</sup>

Notes:

[1] 8GB or 16GB LPDDR4x-4266 soldered, dual-channel.

Storage

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

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

Storage Type

| Disk Type    | Interface                 | Offering                    |
|--------------|---------------------------|-----------------------------|
| M.2 2242 SSD | PCIe® NVMe®, PCIe® 3.0 x4 | 128GB / 256GB / 512GB / 1TB |

Notes:

[1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.

Multi-Media

Speakers

Stereo speakers, Realtek® ALC3306-GRT codec, 1W x2, Dolby Audio™

Microphone

Dual-microphone array, 360° far-field for Cortana, near-field for Alexa

Camera

Front 5.0MP + IR hybrid user-facing camera, privacy shutter, fixed focus

Rear 8.0MP, autofocus

Sensor

Vibration Motor

No support

Sensors

- Accelerometer (G) sensor
- Gyroscope sensor
- Hall sensor
- Inclinator sensor
- Proximity (P) sensor (WWAN models)

Battery

Battery

Integrated Li-Polymer 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

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

MobileMark® 2018: 10.36 hr

JEITA 2.0: 12.42 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, JEITA 2.0, continuous 1080p video playback (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 and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter\*\*

- 45W USB-C® (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 45W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® (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

DESIGN

Display

Display

| Size  | Resolution       | Touch       | Type               | Brightness | Surface                      | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle (L/R/U/D) | Key Features              |
|-------|------------------|-------------|--------------------|------------|------------------------------|--------------|----------------|-------------|-------------------------|---------------------------|
| 12.3" | FHD+ (1920x1280) | Multi-touch | IPS <sup>[1]</sup> | 400nits    | Anti-reflection, anti-smudge | 3:2          | 1500:1         | 100% sRGB   | 178°                    | Corning® Gorilla® Glass 5 |

Touchscreen

GF2 multi-touch, supports 10-point touch

Notes:

[1] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Pen<sup>\*\*[1]</sup>

- Lenovo® Digital Pen with replaceable AAAA alkaline battery, 4096 levels of pressure sensitivity. For more information, please read [Lenovo® Digital Pen Overview](#)
- Lenovo® Digital Pen without replaceable AAAA alkaline battery, 4096 levels of pressure sensitivity. For more information, please read [Lenovo® Digital Pen Overview](#)
- 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)

Notes:

[1] Lenovo® Precision Pen: might not be installed with an AAAA alkaline battery.

Mechanical

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

| Models                     | Dimensions  |
|----------------------------|---|
| Tablet                     | Tablet: 283.3 x 203.5 x 8.8 mm (11.15 x 8.01 x 0.34 inches)   |
| Tablet with folio keyboard | Tablet: 283.3 x 203.5 x 8.8 mm (11.15 x 8.01 x 0.35 inches)<br>Folio keyboard: 283.3 x 217.8 x 5.7 mm (11.15 x 8.57 x 0.22 inches)<br>Total: 283.3 x 208.1 x 14.5 mm (11.15 x 8.19 x 0.57 inches) |

Weight<sup>[2]</sup>

| Models                     | Weight   |
|----------------------------|--|
| Tablet                     | Tablet: around 760 g (1.67 lbs)  |
| Tablet with folio keyboard | Tablet: around 760 g (1.67 lbs)<br>Folio keyboard: 340 g (0.75 lbs)<br>Total: 1,100 g (2.42 lbs) |

Case Color

Black

Case Material<sup>[3]</sup>

Magnesium-aluminium

Others

- Hinge open angle: 170°
- Kensington® Nano Security Slot™

Buttons

- Power button

- Volume button

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.
- [3] Surface treatment: Peachskin paint.

CONNECTIVITY

Network

WLAN + Bluetooth<sup>[1]</sup>

Intel® Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1, MU-MIMO<sup>[2]</sup>

WWAN

- Fibocom L850-GL, 4G LTE CAT9, M.2 card
- No support

SIM Card

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

NFC

- Near Field Communication
- No support

Wi-Fi® Direct

Support

Wi-Fi® Display

Support

Location Services\*\*

| Models      | Location              |
|-------------|-----------------------|
| WLAN models | No location service   |
| WWAN models | GPS + GLONASS + A-GPS |

Notes:

- [1] Bluetooth® 5.2 is hardware ready but may run at a lower version due to OS limitations.
- [2] Wi-Fi® 6 full features might be limited by country-level restrictions.

Ports<sup>[1]</sup>

Standard Ports

- 1x USB-C® 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Pogo pin connector (8-point)

Optional Ports

1x Nano-SIM card slot (WWAN 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.



## SECURITY & PRIVACY

### Security

#### Security Chip

Discrete TPM 2.0, TCG certified

#### Fingerprint Reader

- Touch style fingerprint reader on folio keyboard, match-on-chip
- No fingerprint reader

#### BIOS Security

- Power-on password
- Supervisor password
- System management password
- Hard disk password
- Self-healing BIOS

## MANAGEABILITY

### System Management

#### System Management

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

Notes:

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

## SERVICE

### Warranty

#### Base Warranty\*\*<sup>[1]</sup>

- 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] 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>.

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories\*\*\*

- Lenovo® USB-C® Port Replicator
- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- Lenovo® USB-C® to HDMI® Adapter
- Lenovo® USB-C® to VGA Adapter
- ThinkPad® X12 Folio Keyboard, with touchpad (pogo pin, detachable), 3-level backlight
- None

## OPERATING REQUIREMENTS

### Operating Environment

**Temperature<sup>[1]</sup>**

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -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)

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**Notes:**

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

## CERTIFICATIONS

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

**Green Certifications**

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered<sup>[2]</sup>
- ErP Lot 3
- FAA certified
- Low Halogen
- RoHS compliant
- TCO Certified 8.0

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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. For ESG & regulatory compliance documents, please visit <https://compliance.lenovo.com>.

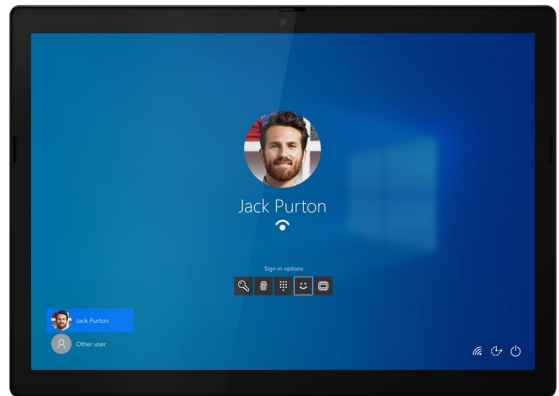
[2] EPEAT™ is registered where applicable, please visit [epeat.net](https://epeat.net) for registration status by country.

### Other Certifications

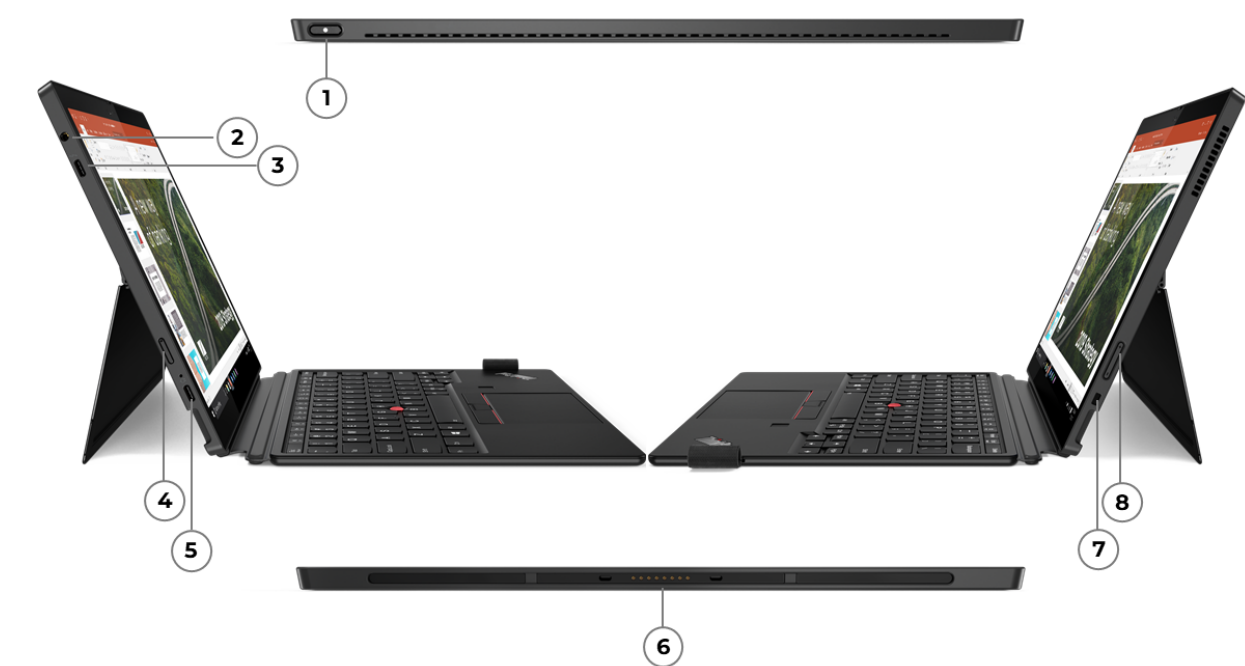
**Mil-Spec Test**

MIL-STD-810H military test passed

- 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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OVERVIEW



|  |   |
|--|---|
| 1. Power button                              | 5. USB-C (USB 10Gbps), with USB PD 3.0 & DP 2.1 |
| 2. Headphone / microphone combo jack (3.5mm) | 6. Pogo pin connector (8-point)                 |
| 3. Thunderbolt 4                             | 7. Kensington Nano Security Slot                |
| 4. Nano-SIM card slot *                      | 8. Volume button                                |

- Notes:
- Items with \* are only available on selected models
  - Folio keyboard shown on above image is for demo only. It is available on selected models.

PERFORMANCE

Processor

Processor Family

Intel® U Series Core™ Ultra 5 / 7 Processor (Series 1)

Processor\*\*

| Processor Name     | Cores                                 | Threads | Base Frequency                                  | Max Frequency                                   | Cache | Processor Graphics | AI Engine       |
|--------------------|---------------------------------------|---------|---|---|-------|--------------------|-----------------|
| Core™ Ultra 5 134U | 12 (2 P-core + 8 E-core + 2 LPE-core) | 14      | P-core 700MHz / E-core 500MHz / LPE-core 400MHz | P-core 4.4GHz / E-core 3.6GHz / LPE-core 2.1GHz | 12MB  | Intel® Graphics    | Intel® AI Boost |
| Core™ Ultra 7 164U | 12 (2 P-core + 8 E-core + 2 LPE-core) | 14      | P-core 1.1GHz / E-core 700MHz / LPE-core 400MHz | P-core 4.8GHz / E-core 3.8GHz / LPE-core 2.1GHz | 12MB  | Intel® Graphics    | Intel® AI Boost |

Operating System

Operating System\*\*

- Windows® 11 Pro
- Windows® 11 Home
- No preload operating system

Graphics

Graphics

| Graphics        | Type       | Memory | TGP           | Key Features  |
|-----------------|------------|--------|---------------|---------------|
| Intel® Graphics | Integrated | Shared | Share CPU TDP | DirectX® 12.2 |

Monitor Support

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

Supports up to 3 independent displays (native display and 2 external monitors via USB-C® and Thunderbolt™)

- USB-C® supports up to 6K@60Hz
- Thunderbolt™ supports up to 8K@60Hz

Notes:

[1] Refresh rates >60hz also supported, however max resolution will be limited. 6K / 8K resolution support needs 2 display pipes. That is, simultaneous display number will “-1” when 6K / 8K resolution displayed.

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory

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

Memory Type

LPDDR5x-6400<sup>[1]</sup>

Notes:

[1] 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 1TB M.2 2242 SSD

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.

Multi-Media

Speakers

Stereo speakers, 1W x2, Dolby Audio™

Microphone

Dual-microphone array, Dolby Voice®

Camera

Front 5.0MP + IR discrete user-facing camera, privacy shutter, fixed focus  
Rear 8.0MP, autofocus

Sensor

Vibration Motor

No support

Sensors

- Accelerometer (G) sensor
- Gyroscope sensor
- Hall sensor
- Inclinator sensor
- Proximity (P) sensor (WWAN models)

Battery

Battery

Integrated Li-Polymer 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

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

MobileMark25@250nits: 12.47 hr  
Local video (1080p) playback@150nits: 17.52 hr  
JEITA-BAT 3.0@200nits (Video/Idle): 9.98 hr / 19.31 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the [MobileMark® 25](#), JEITA 3.0, continuous 1080p video playback (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 and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter

Power Adapter<sup>\*\*[1]</sup>

- 45W USB-C® (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 45W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® (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

Notes:

[1] AC adapter offerings depend on the country.

DESIGN

Display

Display<sup>[1]</sup>



| Size  | Resolution       | Touch       | Type | Brightness | Surface                      | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle (L/R/U/D) | Key Features            |
|-------|------------------|-------------|------|------------|------------------------------|--------------|----------------|-------------|-------------------------|-------------------------|
| 12.3" | FHD+ (1920x1280) | Multi-touch | IPS  | 400nits    | Anti-reflection, anti-smudge | 3:2          | 1500:1         | 100% sRGB   | 89°/89°/89°/89°         | Corning® Gorilla® Glass |

Touchscreen

GMF / GF2 (Metal mesh film sensor) multi-touch, supports 10-point touch

Notes:

[1] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Pen\*\*

- Lenovo® Digital Pen with replaceable AAAA alkaline battery, 4096 levels of pressure sensitivity. For more information, please read [Lenovo® Digital Pen Overview](#)
- 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)

Mechanical

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

| Models                     | Dimensions  |
|----------------------------|---|
| Tablet                     | 283.3 x 203.5 x 8.8 mm (11.15 x 8.01 x 0.34 inches)   |
| Tablet with folio keyboard | Tablet: 283.3 x 203.5 x 8.8 mm (11.15 x 8.01 x 0.35 inches)<br>Folio keyboard: 283.3 x 217.8 x 5.7 mm (11.15 x 8.57 x 0.22 inches)<br>Total: 283.3 x 208.1 x 14.5 mm (11.15 x 8.19 x 0.57 inches) |

Weight<sup>[2]</sup>

| Models                     | Weight   |
|----------------------------|--|
| Tablet                     | around 0.76 kg (1.67 lbs)  |
| Tablet with folio keyboard | Tablet: 0.76 kg (1.67 lbs)<br>Folio keyboard: 0.34 kg (0.75 lbs)<br>Total: 1.1 kg (2.42 lbs) |

Case Color

Black

Case Material

Magnesium-aluminium

Others

- Hinge open angle: 170°
- Kensington® Nano Security Slot™

Buttons

- Power button
- Volume button

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

WLAN + Bluetooth<sup>[1]</sup>

Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3

WWAN

- Quectel EM160R-GL Gen 2, 4G LTE CAT16, M.2 card, with embedded eSIM functionality
- No support

NFC

- Near Field Communication
- No support

Location Services

| Models      | Location                                 |
|-------------|--|
| WLAN models | No location service                      |
| WWAN models | GPS + GLONASS + Galileo + Beidou + A-GPS |

Notes:

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

Ports

Standard Ports<sup>[1]</sup>

- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 2.1
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Pogo pin connector (8-point)

Optional Ports

1x Nano-SIM card slot (WWAN models)

Notes:

[1] The transfer speed of the 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 the theoretical speed.

Docking

Docking

Various docking solutions supported via Thunderbolt™ or USB-C®.  
For more compatible docking solutions, please visit [Docking for ThinkPad® X12 Detachable Gen 2](#)

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Fingerprint Reader

- Touch style fingerprint reader on folio keyboard, match-on-chip
- No fingerprint reader

BIOS Security

- Power-on password
- Supervisor password
- System management password
- Hard disk password
- Self-healing BIOS

MANAGEABILITY

System Management

System Management

- Intel® vPro® Enterprise
- Non-vPro®

## SERVICE

### Warranty

#### Base Warranty\*\*

- 1-year courier or carry-in service
- 3-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) limited onsite service

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories\*\*\*[1]

- Lenovo® USB-C® Port Replicator
- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- Lenovo® USB-C® to HDMI® Adapter
- Lenovo® USB-C® to VGA Adapter
- ThinkPad® X12 Detachable Gen 2 Folio Keyboard, with touchpad (pogo pin, detachable)
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® X12 Detachable Gen 2](#).

## OPERATING REQUIREMENTS

### Operating Environment

#### Temperature[1]

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage and transportation in original shipping packaging: -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

90% recycled magnesium on top cover  
30% PCC recycled plastic on keyboard cover  
30% PCC recycled plastic on bottom cover  
30% PCC recycled plastic used in speaker enclosure  
50% recycled aluminium used in the kickstand  
25% PCC recycled plastic used in the 42Whr battery enclosure  
Up to 90% PCC recycled plastic used in standard 45W and 65W USB-C®, and Slim 65W adaptors  
FSC-certified with 85% recycled plastic and/or sustainable content

## CERTIFICATIONS

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

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

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered<sup>[3]</sup>
- ErP Lot 6
- ErP Lot 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 dependent on system 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

- 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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#### Lenovo Services:

**Carry-in or Mail-in Service:** Parts and labor repair coverage where the customer is responsible for shipping (including packaging) or delivery to authorized warranty provider or repair center.

**Depot or Courier Service:** Parts and labor repair coverage where shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

**Expedited Depot:** Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.

**Onsite / In-home Service:** Parts and labor repair coverage where labor is provided onsite at your place of business.

If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.

**International Warranty Service (IWS):** PC repair coverage for customers who require a critical warranty repair while travelling internationally. Visit [www.lenovo.com/internationalwarranty](http://www.lenovo.com/internationalwarranty) for details. Visit [www.lenovo.com/warranty](http://www.lenovo.com/warranty) for Lenovo Warranty Services terms and conditions for complete details and restrictions.

**Included software:** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

**Battery life:** Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

Visit <http://psref.lenovo.com/> for the latest version of Product Specifications Reference.

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