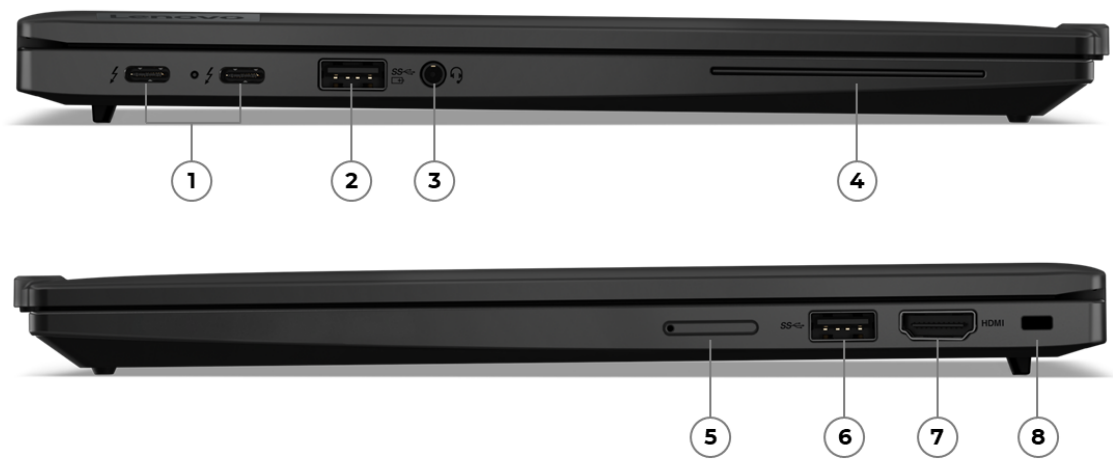


OVERVIEW



1. 2x Thunderbolt 4	5. Nano-SIM card slot *
2. USB-A (USB 5Gbps), Always On	6. USB-A (USB 5Gbps)
3. Headphone / microphone combo jack (3.5mm)	7. HDMI
4. Smart card reader *	8. Kensington Nano Security Slot

- Notes:
- Items with \* are only available on selected models

PERFORMANCE

Processor

Processor Family

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

Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU
Core Ultra 5 125H	14 (4 P-core + 8 E-core + 2 LPE-core)	18	P-core 1.2GHz / E-core 700MHz / LPE-core 700MHz	P-core 4.5GHz / E-core 3.6GHz / LPE-core 2.5GHz	18MB	Intel® Arc™ Graphics	Intel® AI Boost
Core Ultra 5 125U	12 (2 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.3GHz / E-core 800MHz / LPE-core 700MHz	P-core 4.3GHz / E-core 3.6GHz / LPE-core 2.1GHz	12MB	Intel® Graphics	Intel® AI Boost
Core Ultra 5 135U	12 (2 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.6GHz / E-core 1.1GHz / LPE-core 700MHz	P-core 4.4GHz / E-core 3.6GHz / LPE-core 2.1GHz	12MB	Intel® Graphics	Intel® AI Boost
Core Ultra 7 155H	16 (6 P-core + 8 E-core + 2 LPE-core)	22	P-core 1.4GHz / E-core 900MHz / LPE-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LPE-core 2.5GHz	24MB	Intel® Arc™ Graphics	Intel® AI Boost
Core Ultra 7 155U	12 (2 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.7GHz / E-core 1.2GHz / LPE-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LPE-core 2.1GHz	12MB	Intel® Graphics	Intel® AI Boost
Core Ultra 7 165U	12 (2 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.7GHz / E-core 1.2GHz / LPE-core 700MHz	P-core 4.9GHz / E-core 3.8GHz / LPE-core 2.1GHz	12MB	Intel® Graphics	Intel® AI Boost

AI (Artificial Intelligence)

AI PC Category

AI PC

NPU

Integrated Intel® AI Boost, up to 11 TOPS

Operating System

Operating System\*\*

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- Windows® 11 IoT Enterprise LTSC 2024
- Windows® 11 DG Windows® 10 Pro 64
- Windows® 10 IoT Enterprise LTSC 2021
- Ubuntu Linux<sup>[1]</sup>
- Linux<sup>[2]</sup>
- No preload operating system

Notes:

[1], [2] 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® Arc™ Graphics	Integrated	Shared	DirectX® 12.2
Intel® Graphics	Integrated	Shared	DirectX® 12.1

Monitor Support

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

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

- HDMI® supports up to 4K@60Hz
- Thunderbolt™ supports up to 8K@60Hz<sup>[2]</sup>

Notes:

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

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory

- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable
- 64GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

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 2TB M.2 2280 SSD

Storage Slot

One M.2 2280 PCIe® 4.0 x4 slot

Storage Type\*\*

Disk Type	Interface	Offering	Security
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB	Opal 2.0
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4 Performance	512GB / 1TB / 2TB	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, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™ Premium

Microphone

- Dual-microphone array, 360° far-field, Dolby Voice®
- No microphone

**Camera\*\***

- 5.0MP + IR discrete, with privacy shutter, fixed focus, temporal noise reduction
- 5.0MP, with privacy shutter, fixed focus, temporal noise reduction
- No camera

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

- Integrated Li-Polymer 41Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 54.7Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Battery Life<sup>[2]</sup>**

Configuration 1 (max battery life)

MobileMark® 25: up to 15.2 hr with 667 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 12.4 hr / 31.2 hr @200nits

Local video playback: up to 21.7 hr @150nits

Alternate configuration 2

MobileMark® 25: up to 13.2 hr with 652 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 11.7 hr / 24.1 hr @200nits

Local video playback: up to 20.1 hr @150nits

Alternate configuration 3

MobileMark® 25: up to 13.1 hr with 730 performance score @250nits

JEITA-BAT 3.0 (Video/Idle): up to 11.7 hr / 30.8 hr @200nits

Local video playback: up to 20.1 hr @150nits

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**Notes:**

[1] Rapid charge is only guaranteed when the computer is turned off or in standby mode or in hibernation mode. When the computer is powered on, the Charge Time will vary depending on system power consumption and AC adapter power.

[2] Configuration 1 (max battery life): WUXGA low power (non-touch), Intel® Core™ Ultra 5 125U, 16GB LPDDR5x, Win 11, 54.7Wh battery, best power efficiency power mode

Alternate configuration 2: WUXGA (non-touch), Intel® Core™ Ultra 5 125U, 16GB LPDDR5x, Win 11, 54.7Wh battery, best power efficiency power mode

Alternate configuration 3: WUXGA low power (non-touch), Intel® Core™ Ultra 5 125H, 16GB LPDDR5x, Win 11, 54.7Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark® 25](#), JEITA 3.0, 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>**

- 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<sup>[2]</sup>

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**Notes:**

[1] AC adapter offerings depend on the country.

[2] No power adapter is for special bid only.

**DESIGN****Display**

Display\*\*

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
13.3"	WUXGA (1920x1200)	None	IPS <sup>[1]</sup>	300nits	Anti-glare	16:10	1000:1	100% sRGB	60Hz	85° / 85° / 85° / 85°	-
13.3"	WUXGA (1920x1200)	Multi-touch	IPS <sup>[2]</sup>	300nits	Anti-glare	16:10	1000:1	100% sRGB	60Hz	85° / 85° / 85° / 85°	-
13.3"	WUXGA (1920x1200)	None	IPS <sup>[3]</sup>	400nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	85° / 85° / 85° / 85°	Low power, Eyesafe® Certified 2.0

Touchscreen

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

Notes:

[1], [2], [3] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Pen

No support

Keyboard

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

Keyboard Backlight

- LED backlight
- Non-backlight

UltraNav™

TrackPoint® pointing device, double-tap to open the TrackPoint® Quick Menu  
Glass-like Mylar® surface multi-touch touchpad, 61 x 115 mm (2.40 x 4.53 inches)

Mechanical

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

301.7 x 214.8 x 15.95 mm (11.88 x 8.46 x 0.63 inches)

Weight<sup>[2]</sup>

Models	Weight
Models with 54.7Wh battery and carbon fiber hybrid top cover	Starting at 1.17 kg (2.58 lbs)
Models with 41Wh battery and CFRP top cover	Starting at 1.12 kg (2.47 lbs)
Models with 41Wh battery and carbon fiber hybrid top cover	Starting at 1.13 kg (2.49 lbs)
Models with 54.7Wh battery and CFRP top cover	Starting at 1.17 kg (2.58 lbs)

Case Color

Black

Case Material

Carbon fiber hybrid or CFRP (top), aluminium (bottom)

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>®</sup>\*\*<sup>[2]</sup>

- Intel<sup>®</sup> Wi-Fi<sup>®</sup> 6E AX211, 802.11ax 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.3<sup>[3]</sup>
- Intel<sup>®</sup> Wi-Fi<sup>®</sup> 7 BE200, 802.11be 2x2 Wi-Fi<sup>®</sup> + Bluetooth<sup>®</sup> 5.3 (Bluetooth<sup>®</sup> 5.4 hardware ready)<sup>[4]</sup>

### WWAN\*\*

- Wireless WAN upgradable to 4G (with antenna ready)<sup>[5]</sup>
- Quectel EM061K-GL, 4G LTE CAT6, M.2 Card, with embedded eSIM functionality
- Fibocom FM350-GL, 5G Sub-6 GHz, M.2 Card, with embedded eSIM functionality
- No support

### SIM Card

No physical SIM card inbox

### NFC

- Near Field Communication
- No support

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#### Notes:

[1] Ethernet support via optional Lenovo<sup>®</sup> USB-C<sup>®</sup> to Ethernet Adapter.

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

[3] Wi-Fi<sup>®</sup> 6E full features might be limited by country-level restrictions.

Wi-Fi<sup>®</sup> 6E is only enabled on Windows<sup>®</sup> 11 and operates as Wi-Fi<sup>®</sup> 6 with Windows<sup>®</sup> 10.

6GHz Wi-Fi<sup>®</sup> 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi<sup>®</sup> 6E, and the regional regulatory certifications & spectrum allocation.

Bluetooth<sup>®</sup> 5.3 operation requires Windows<sup>®</sup> 11. For more information please visit [General Bluetooth<sup>®</sup> Support Information on Microsoft<sup>®</sup>](#).

[4] Wi-Fi<sup>®</sup> 7 is only enabled on Windows<sup>®</sup> 11 and operates as Wi-Fi<sup>®</sup> 6 with Windows<sup>®</sup> 10.

6GHz Wi-Fi<sup>®</sup> 7 operation is subject to the regulation rules in each country.

Bluetooth<sup>®</sup> 5.3 operation requires Windows<sup>®</sup> 11. For more information please visit [General Bluetooth<sup>®</sup> Support Information on Microsoft<sup>®</sup>](#).

[5] Wireless WAN upgradable to 4G is only available in EMEA.

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

### Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 2x USB-C<sup>®</sup> (Thunderbolt<sup>™</sup> 4 / USB4<sup>®</sup> 40Gbps), with USB PD 3.0 and DisplayPort<sup>™</sup> 2.1
- 1x HDMI<sup>®</sup> 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)

### Optional Ports\*\*\*

- 1x Smart card reader
- 1x Nano-SIM card slot (WWAN support 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 theoretical speed.

## Docking

### Docking

Various docking solutions supported via Thunderbolt<sup>™</sup> / USB-C<sup>®</sup>.

For more compatible docking solutions, please visit [Docking for ThinkPad<sup>®</sup> X13 Gen 5](#)

## SECURITY & PRIVACY

## Security

### Security Chip

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

### Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

### Smart Card Reader

- Smart card reader, supports ISO 7816 and EMV
- No smart card reader

### Fingerprint Reader

- Touch style fingerprint reader integrated in power button, match-on-chip
- No fingerprint reader

### BIOS Security

- NVMe® password
- Power-on password
- Supervisor password
- System management password
- Certificate based BIOS authentication
- FIDO (Fast Identity Online) authentication
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)

### Other Security

- Camera privacy shutter (camera models)
- (Optional) IR camera for Windows® Hello (facial recognition)
- Ultrasonic Human Presence Detection (IR camera models)

## MANAGEABILITY

### System Management

#### System Management

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

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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

## ACCESSORIES

### Bundled Accessories

#### Bundled Accessories\*\*\*<sup>[1]</sup>

- Lenovo® HDMI® to VGA Monitor Adapter
- Lenovo® USB-C® to DisplayPort™ Adapter
- Lenovo® USB-C® to Ethernet Adapter (1Gbps)
- Lenovo® USB-C® to VGA Adapter
- None

## Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkPad® X13 Gen 5](#).

## OPERATING REQUIREMENTS

### 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)

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

90% recycled magnesium on keyboard frame  
55% recycled aluminium on bottom cover  
85% PCC recycled plastic used in keycaps  
90% PCC recycled plastic used in speaker enclosure  
90% PCC recycled plastic used in the battery enclosure  
90% PCC recycled plastic used in standard 45W and 65W adapters  
Plastic free packaging with FSC certified

## Notes:

[1] PCC: Post Consumer Content, recycled materials from customers.

## CERTIFICATIONS

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

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

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered<sup>[3]</sup>
- ErP Lot 6/26
- RoHS compliant
- TCO Certified 10.0

## 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 optional and only available on the models with preloaded 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

#### Other Certifications



- (Optional) Intel® Evo™ Platform
  - (Optional) Eyesafe® Certified 2.0
- 
- Feature with \*\* means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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