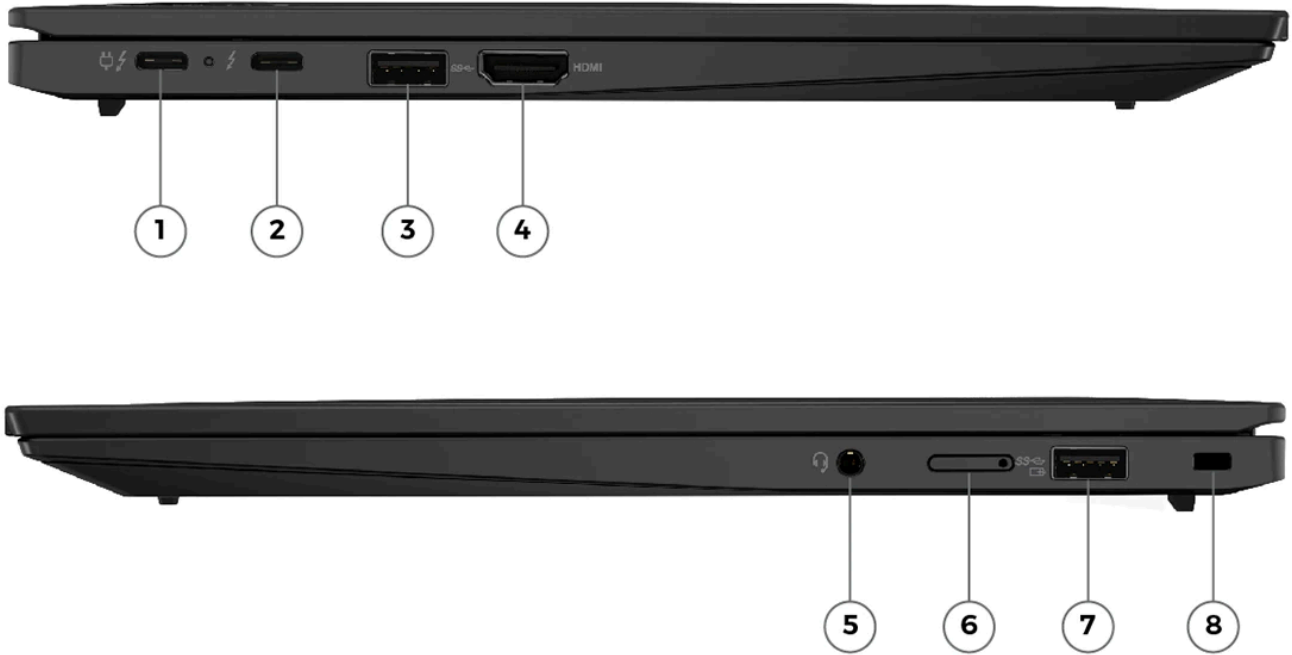


OVERVIEW



1. Thunderbolt 4	5. Headphone / microphone combo jack (3.5mm)
2. Thunderbolt 4	6. Nano-SIM card slot *
3. USB 3.2 Gen 1	7. USB 3.2 Gen 1 (Always On)
4. HDMI	8. Kensington Nano Security Slot

Notes:

- Ports with * are only available on selected models

PERFORMANCE

Processor

Processor Family

12th Generation Intel® Core™ i5 / i7 Processor

Processor**^[1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i5-1235U	10 (2 P-core + 8 E-core)	12	P-core 1.3GHz / E-core 0.9GHz	P-core 4.4GHz / E-core 3.3GHz	12MB	LPDDR5-5200	Intel Iris® Xe Graphics
Core i5-1245U	10 (2 P-core + 8 E-core)	12	P-core 1.6GHz / E-core 1.2GHz	P-core 4.4GHz / E-core 3.3GHz	12MB	LPDDR5-5200	Intel Iris Xe Graphics
Core i7-1255U	10 (2 P-core + 8 E-core)	12	P-core 1.7GHz / E-core 1.2GHz	P-core 4.7GHz / E-core 3.5GHz	12MB	LPDDR5-5200	Intel Iris Xe Graphics
Core i7-1265U	10 (2 P-core + 8 E-core)	12	P-core 1.8GHz / E-core 1.3GHz	P-core 4.8GHz / E-core 3.6GHz	12MB	LPDDR5-5200	Intel Iris Xe Graphics
Core i5-1240P	12 (4 P-core + 8 E-core)	16	P-core 1.7GHz / E-core 1.2GHz	P-core 4.4GHz / E-core 3.3GHz	12MB	LPDDR5-5200	Intel Iris Xe Graphics
Core i5-1250P	12 (4 P-core + 8 E-core)	16	P-core 1.7GHz / E-core 1.2GHz	P-core 4.4GHz / E-core 3.3GHz	12MB	LPDDR5-5200	Intel Iris Xe Graphics
Core i7-1260P	12 (4 P-core + 8 E-core)	16	P-core 2.1GHz / E-core 1.5GHz	P-core 4.7GHz / E-core 3.4GHz	18MB	LPDDR5-5200	Intel Iris Xe Graphics
Core i7-1270P	12 (4 P-core + 8 E-core)	16	P-core 2.2GHz / E-core 1.6GHz	P-core 4.8GHz / E-core 3.5GHz	18MB	LPDDR5-5200	Intel Iris Xe Graphics
Core i7-1280P	14 (6 P-core + 8 E-core)	20	P-core 1.8GHz / E-core 1.3GHz	P-core 4.8GHz / E-core 3.6GHz	24MB	LPDDR5-5200	Intel Iris Xe Graphics

Notes:

1. i7-1280P is NOT available in EMEA.

Operating System

Operating System**

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 Home 64 Single Language
- Windows 11 DG Windows 10 Pro 64
- Fedora Linux
- Linux
- Ubuntu Linux
- No operating system

Graphics

Graphics

Graphics	Type	Memory	TGP	Key Features
Intel Iris Xe Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1

Monitor Support

Monitor Support^[1]

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

- Thunderbolt supports up to 5K@60Hz
- HDMI supports up to 4K@60Hz

Notes:

1. Refresh rates >60hz also supported, however max resolution will be limited.

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory^{[1][2]}

- 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^[3]

LPDDR5-5200

Notes:

1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.
2. 8GB memory is NOT available in EMEA.
3. Installed memory is actually 6400MHz but run at 5200MHz due to processor limitation

Storage

Storage Support^[1]

One drive, up to 2TB M.2 2280 SSD

Storage Slot

One M.2 2280 PCIe® Gen 4x4 slot, supports M.2 2280 SSD

Storage Type^{**[2]}

Disk Type	Interface	Offering	Security
M.2 2280 SSD	PCIe NVMe®, PCIe 4.0 x4 Performance	512GB / 1TB / 2TB	Opal2
M.2 2280 SSD	PCIe NVMe, PCIe x4	256GB / 512GB / 1TB	Opal2

Notes:

1. 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.
2. PCIe x4 SSD may be PCIe 3.0x4 or PCIe 4.0x4 as substitution.
512GB and 1TB M.2 2280 PCIe 4x4 SSD are NOT available in EMEA.

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2 woofers and 0.8W x2 tweeters, Dolby® Atmos®

Microphone

Four microphones, quad-array, 360° far-field, Dolby Voice

Camera^{**[1]}

- HD 720p, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus
- IR & FHD 1080p hybrid, with privacy shutter, fixed focus
- IR & FHD 1080p discrete, with privacy shutter, MIPI, fixed focus, Computer Vision

Notes:

1. 720p camera is NOT available in EMEA.

Battery

Battery

Integrated Li-Polymer 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

Battery Life^[1]

Configuration 1 (max battery life)

MobileMark® 2018: up to 15.0 hr with 838 performance score @200nits

MobileMark 25: up to 13.1 hr with 663 performance score @250nits

JEITA 2.0: up to 24.9 hr @150nits

Local video playback: up to 19.9 hr @150nits

Alternate configuration 2

MobileMark 2018: up to 14.3 hr with 840 performance score @200nits

MobileMark 25: up to 11.3 hr with 623 performance score @250nits

JEITA 2.0: up to 24.9 hr @150nits

Local video playback: up to 19.9 hr @150nits

Alternate configuration 3

MobileMark 2018: up to 14.2 hr with 809 performance score @200nits

MobileMark 25: up to 11.1 hr with 600 performance score @250nits

JEITA 2.0: up to 21.7 hr @150nits

Local video playback: up to 19.7 hr @150nits

Notes:

1. Configuration 1 (max battery life): WUXGA (non-touch), Intel i5-1235U, 8GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 2: WUXGA (non-touch), Intel i5-1240P, 16GB LPDDR5, Win 11, 57Wh battery, best power efficiency power mode
Alternate configuration 3: WUXGA (non-touch), Intel i7-1260P, 16GB LPDDR5, Win 11, 57Wh 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][2]}

- 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

Notes:

1. AC adapter offerings depend on the country.
2. In EMEA only 65W USB-C slim AC adapters are available.

DESIGN

Display

Display^{**[1][2]}

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
14.0"	WUXGA	None	IPS	400 nits	Anti-glare	16:10	1000:1	100%	170°	Low power,

	(1920x1200)							sRGB		Eyesafe® Certified
14.0"	WUXGA (1920x1200)	On-cell touch	IPS	400 nits	Anti-glare	16:10	1000:1	100% sRGB	170°	Low power, Eyesafe Certified
14.0"	WUXGA (1920x1200)	On-cell touch	IPS	500 nits	Anti-glare	16:10	1000:1	100% sRGB	170°	ThinkPad® Privacy Guard, TÜV ePrivacy Certification
14.0"	2.2K (2240x1400)	None	IPS	300 nits	Anti-glare	16:10	1500:1	100% sRGB	170°	TÜV Low Blue Light Method 2
14.0"	2.8K (2880x1800)	None	OLED	SDR 400nits, HDR 500nits	Anti-glare, Anti-reflection, Anti-smudge	16:10	100000:1	100% DCI-P3	170°	DisplayHDR™ 500 True Black, Eyesafe Certified
14.0"	WQUXGA (3840x2400)	None	IPS	500 nits	Glossy	16:10	1500:1	100% DCI-P3	170°	Low power, Dolby Vision™, DisplayHDR 400, Eyesafe Certified
14.0"	WQUXGA (3840x2400)	Add On Film Touch	IPS	500 nits	Anti-glare, Anti-reflection, Anti-smudge	16:10	1500:1	100% DCI-P3	170°	Low power, Dolby Vision, DisplayHDR 400, Eyesafe Certified

Touchscreen**

- Add-on Film Touch, supports 10-point touch
- On-cell touch, supports 10-point touch
- Non-touch

Notes:

1. 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>
2. 2.2K display and Add on Film Touch display are NOT available in EMEA.

Input Device

Keyboard

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

Keyboard Backlight

LED backlight

UltraNav™

TrackPoint® pointing device and glass surface multi-touch touchpad, 56 x 110 mm (2.20 x 4.33 inches)

Mechanical^[1]

Dimensions (WxDxH)

Models	Dimensions
Model with 720p camera	315.6 x 222.5 x 14.95 mm (12.43 x 8.76 x 0.59 inches)
Model with other camera	315.6 x 222.5 x 15.36 mm (12.43 x 8.76 x 0.60 inches)

Weight

Starting at 1.12 kg (2.48 lbs)

Case Color**

- Deep black, paint
- Deep black, weave

Case Material

Carbon fiber (top), aluminium (bottom)

Notes:

1. The system dimensions and weight vary depending on configurations.

CONNECTIVITY

Network

Ethernet^[1]

No Ethernet

WLAN + Bluetooth®**^{[2][3]}

- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1
- Intel Wi-Fi 6E AX211, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1

WWAN**

- Wireless WAN upgradable to 4G (with antenna ready)
- Fibocom FM350-GL 5G NR module, M.2 Card, with embedded eSIM functionality
- Fibocom L860-GL-16, 4G LTE CAT16, MIMO 4x4, M.2 card
- No support

SIM Card

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

NFC

- Near Field Communication
- 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 6 and 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 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4a)
- 1x HDMI, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)

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 / USB-C.

For more compatible docking solutions, please visit [Docking for ThinkPad X1 Carbon Gen 10](#)

Monitor Cable

Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- No monitor cable

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Smart Card Reader

No smart card reader

Fingerprint Reader

Touch style fingerprint reader on power button, match-on-chip

BIOS Security

- Power-on password
- Supervisor password
- System management password
- NVMe password
- USB FIDO (Fast Identity Online) device integration
- Certificate based BIOS authentication
- Firmware Resiliency 3.0

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- (Optional) Computer Vision-based User Presence Sensing including lock on leave
- Mirametrix Glance
- Tile ready

MANAGEABILITY

System Management

System Management**^[1]

- Intel vPro Enterprise
- Intel vPro Essentials
- Non-vPro

Notes:

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

SERVICE

Warranty

Base Warranty**^[1]

- 1-year depot service
- 1-year depot with 2-year system board service (Korea only)
- 1-year limited onsite service
- 3-year (1-yr battery) depot service
- 3-year (1-yr battery) limited onsite service
- No base warranty

Notes:

1. More information of warranty policy, please access <https://pcsupport.lenovo.com/warranty>

ENVIRONMENTAL

Sustainability

Material

- 95% PCC recycled plastic used in speaker enclosure
- 25-30% PCC recycled plastic used in the 57Wh battery
- 95% 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 USB-C to Ethernet Adapter
- None

CERTIFICATIONS**Green Certifications****Green Certifications**

- EPEAT™ Gold
- ENERGY STAR® 8.0
- ErP Lot 3
- TCO Certified 9.0
- RoHS compliant

Other Certifications**Mil-Spec Test**

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe Certified
- (Optional) Intel Evo™ Platform
- TÜV Rheinland® Dynamic Privacy Filter (DPF) Certification (Privacy Guard models)
- (Optional) TÜV Rheinland Low Blue Light Method 2

• Feature with ** means that only one offering listed under the feature is configured on selected models.

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