



Product Specifications Reference

ThinkBook Laptops



Version 657

December 10, 2025



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Summary of Changes

This section describes the technical changes made in this edition.

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

December 10, 2025 - Version 657

Additions in this update

➤ **New product(s)**

None

Spec updated

ThinkBook 16 G9 IRL

ThinkBook 14 G9 IRL

ThinkBook 14 G8 IAL

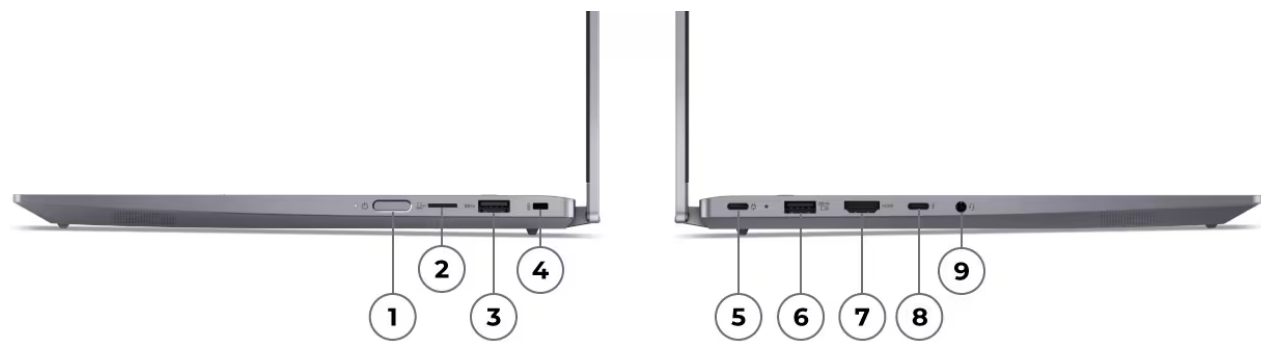
ThinkBook 16 G8 IAL

Withdrawals in this update

➤ **Withdrawn product(s)**

None

OVERVIEW



1. Power button (with fingerprint reader)	6. USB-A (USB 5Gbps), Always On
2. microSD card reader	7. HDMI
3. USB-A (USB 5Gbps)	8. Thunderbolt 4
4. Kensington Nano Security Slot	9. Headphone / microphone combo jack (3.5mm)
5. USB-C (USB 10Gbps), with USB PD 3.0 & DP 1.4	

PERFORMANCE

Processor

Processor Family

Intel® U Series Core Ultra 5 / 7 Processor (Series 2)

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU
Core Ultra 5 225U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.5GHz / E-core 1.3GHz / LP E-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LP E-core 2.4GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 12 TOPS
Core Ultra 7 255U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 2GHz / E-core 1.7GHz / LP E-core 700MHz	P-core 5.2GHz / E-core 4.2GHz / LP E-core 2.4GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 12 TOPS

AI (Artificial Intelligence)

AI PC Category

AI PC^[1]

NPU

Integrated Intel® AI Boost, up to 12 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the optional Microsoft® Copilot key or using Win + C.

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language
- 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^[1]

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@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]

Up to 32GB DDR5-5600 offering

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD
• M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type**

Disk Type	Interface	Offering	Security
M.2 2242 SSD ^[3]	PCIe® NVMe®, PCIe® 4.0 x4	512GB / 1TB	Opal 2.0
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB	-

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® only offers one SSD configuration, another SSD slot for user self-extension.

The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

[3] SSD with Opal 2.0 is available for Romania only.

Removable Storage

Card Reader

microSD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Atmos®, audio by HARMAN

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery

60Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)^[1]

Max Battery Life^[2]

MobileMark® 30@250nits: 11.2 hr
PCMark 10@120nits: 19 hr

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] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018,

MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**[1]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
14"	WUXGA (1920x1200)	Multi-touch	IPS[1]	300nits	Glossy, Anti-fingerprint	16:10	1000:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Corning® Gorilla® Glass, Dolby Vision®, Eyesafe® Certified 2.0

Touchscreen

OGM (One Glass Metal mesh) multi-touch, supports 10-point touch

Screen-to-Body Ratio

90%

Notes:

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

Multi-mode

Multi-mode

Laptop, tent, stand, and tablet modes supported by 360° hinge

Input Device

Pen

- Lenovo® Yoga® Pen
- No pen (purchase separately)

Keyboard

6-row, spill-resistant, multimedia Fn keys, key travel 1.5mm, Copilot key

Keyboard Backlight

LED backlight

Touchpad

Buttonless glass-like Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

313 x 224 x 16.9-18.5 mm (12.32 x 8.82 x 0.67-0.73 inches)

Weight^[2]

Starting at 1.64 kg (3.62 lbs)

Case Color

Luna grey, dual-tone design

Case Material

Aluminium (top), aluminium (bottom)

Surface Treatment

Anodizing sandblasting

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®**^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card^[2]

WWAN

No support

Ethernet

No onboard Ethernet

Notes:

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

[2] Wi-Fi® 6E operation is subject to the regulation rules in each country.

Ports^[1]

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 1.4
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x microSD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 14 2-in-1 G5 IAU](#)

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

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator^{\[1\]}](#)

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 14 2-in-1 G5 IAU](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

50% recycled aluminum on top cover and bottom cover
25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in keycaps
30% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in standard 65W adapter
FSC certified content in carton and accessory box
Dry pressed pulp cushion
100% use of paper in sealing label and tape
Bamboo fiber bag and screen sheet

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- Eyesafe® Certified 2.0
- TÜV Rheinland® Low Blue Light (Hardware Solution)

- 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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OVERVIEW



1. SD card reader	6. USB 3.2 Gen 1 (Always On)
2. USB 3.2 Gen 1	7. HDMI
3. Ethernet (RJ-45)	8. Thunderbolt 4
4. Kensington Nano Security Slot	9. Headphone / microphone combo jack (3.5mm)
5. USB-C 3.2 Gen 2	

PERFORMANCE

Processor

Processor Family

13th Generation Intel® U, P or H Series Core i3 / i5 / i7 Processor

Processor**

Processor Name	Cores	Threads	Max Frequency	Cache	Processor Graphics
Core i3-1315U	6 (2 P-core + 4 E-core)	8	P-core 4.5GHz / E-core 3.3GHz	10MB Intel® Smart Cache	Intel® UHD Graphics
Core i5-1334U	10 (2 P-core + 8 E-core)	12	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[1]
Core i5-1335U	10 (2 P-core + 8 E-core)	12	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[2]
Core i5-1340P	12 (4 P-core + 8 E-core)	16	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[3]
Core i5-13420H	8 (4 P-core + 4 E-core)	12	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® UHD Graphics
Core i5-13500H	12 (4 P-core + 8 E-core)	16	P-core 4.7GHz / E-core 3.5GHz	18MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[4]
Core i7-1355U	10 (2 P-core + 8 E-core)	12	P-core 5.0GHz / E-core 3.7GHz	12MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[5]
Core i7-1360P	12 (4 P-core + 8 E-core)	16	P-core 5.0GHz / E-core 3.7GHz	18MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[6]
Core i7-13700H	14 (6 P-core + 8 E-core)	20	P-core 5.0GHz / E-core 3.7GHz	24MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[7]

Notes:

[1], [2], [3], [4], [5], [6], [7] 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
- No preload operating system

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® UHD Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1
Intel® Iris® Xe Graphics ^[1]	Integrated	Shared	Share CPU TDP	DirectX® 12.1

Notes:

[1] 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 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)

- HDMI® supports up to 3840x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@60Hz

Chipset

Chipset
Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]
Up to 64GB DDR5-5200
Memory Slots
Two DDR5 SODIMM slots, dual-channel capable

Memory Type
DDR5-5200^[2]

Notes:
[1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.
[2] Installed memory is actually DDR5-5600 but runs as DDR5-5200 due to platform limitation.

Storage

Max Storage Support^[1]
Up to two drives, 2x M.2 SSD
• M.2 2242 SSD up to 1TB
• M.2 2280 SSD up to 2TB

Storage Slot^[2]
Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type***

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4	512GB / 1TB

Notes:
[1] The system supports dual SSD via two M.2 slots, but Lenovo® only offers one SSD configuration, another SSD slot for user self-extension.
The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.
[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader
SD card reader

Multi-Media

Audio Chip
High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers
Stereo speakers, 2W x2, Dolby Audio™

Microphone
Dual-microphone array with smart noise-cancelling

Camera**
• HD 720p, with privacy shutter, fixed focus
• FHD 1080p + IR hybrid, with privacy shutter, fixed focus
• FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 60Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)

Max Battery Life^[1]

- Models with 45Wh battery:
MobileMark® 2018: 9.03 hr
MobileMark® 25: 8.68 hr
Local video (1080p) playback@150nits: 13.78 hr
- Models with 60Wh battery:
MobileMark® 2018: 11.4 hr
MobileMark® 25: 12.1 hr
Local video (1080p) playback@150nits: 16.53 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2018, MobileMark® 25, 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**^[1]

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

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

DESIGN

Display

Display**^[1]

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
14"	WUXGA (1920x1200)	Non-touch	IPS	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	Multi-touch	IPS	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	Non-touch	IPS	300nits	Anti-glare	16:10	1000:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0
14"	2.2K (2240x1400)	Non-touch	IPS	300nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0

Touchscreen

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

Screen-to-Body Ratio

90%

Notes:

[1] 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, key travel 1.5mm

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

313.5 x 224 x 16.9 mm (12.34 x 8.82 x 0.67 inches)

Weight^[2]

Starting at 1.38 kg (3.04 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), aluminium (bottom)

Surface Treatment

Anodizing sandblasting

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®**^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, Intel® vPro® technology support, M.2 card^[2]

WWAN

No support

Ethernet**^[3]

- Gigabit Ethernet, Intel® Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel® Ethernet Connection I219-V (non-vPro® models), 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Intel® vPro® platform requires the hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. For detailed vPro® support information, please refer to the System Management section.

[3] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]

Standard Ports

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 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 HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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.

Thunderbolt™ 5: 80 Gbit/s (bidirectional), up to 120 Gbit/s in bandwidth boost mode for video-intensive applications.

Docking

Docking

Various docking solutions supported via Thunderbolt™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 14 G6 IRL](#)

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

Touch style fingerprint reader integrated in smart power button

BIOS Security

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

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

MANAGEABILITY

System Management

System Management^[1]

- Intel® vPro® Essentials^[2]
- Non-vPro®

Notes:

[1] Intel® vPro® platform require an eligible Intel® processor, a supported operating system, Intel® LAN and/or WLAN

silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. See [Intel® vPro® Platform](#) for details.
[2] Intel® vPro® offers a superset of DASH’s defined capabilities.

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 14 G6 IRL](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
90% PCC recycled plastic used in standard 65W and 100W adapter
95% recycled content in PIC cushion
30% recycled content in OBP bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- FSC certified package
- RoHS compliant
- TCO Certified 9.0^[4]

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

[4] TCO certification is NOT available in India and Brazil.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) Intel® Evo™ Platform
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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.
- Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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OVERVIEW



1. SD card reader	6. USB-A (USB 5Gbps), Always On
2. USB-A (USB 5Gbps)	7. HDMI
3. Ethernet (RJ-45)	8. USB-C (USB4 40Gbps), with USB PD 3.0 & DP 1.4
4. Kensington Nano Security Slot	9. Headphone / microphone combo jack (3.5mm)
5. USB-C (USB 10Gbps), with USB PD 3.0 & DP 1.4	

PERFORMANCE

Processor

Processor Family

- AMD Ryzen™ 3 / 5 / 7 7000 Series Processor
- AMD Ryzen™ 5 / 7 100 Series Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
AMD Ryzen™ 3 7335U	4	8	3.0GHz	4.3GHz	2MB L2 / 8MB L3	AMD Radeon™ 660M
AMD Ryzen™ 5 150	6	12	3.3GHz	4.55GHz	3MB L2 / 16MB L3	AMD Radeon™ 660M
AMD Ryzen™ 5 7533HS	6	12	3.3GHz	4.45GHz	3MB L2 / 16MB L3	AMD Radeon™ 660M
AMD Ryzen™ 5 7535HS	6	12	3.3GHz	4.55GHz	3MB L2 / 16MB L3	AMD Radeon™ 660M
AMD Ryzen™ 7 170	8	16	3.2GHz	4.75GHz	4MB L2 / 16MB L3	AMD Radeon™ 680M
AMD Ryzen™ 7 7735HS	8	16	3.2GHz	4.75GHz	4MB L2 / 16MB L3	AMD Radeon™ 680M

Operating System

Operating System**^[1]

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

Notes:

^[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
AMD Radeon™ 660M	Integrated	Shared	Share CPU TDP	DirectX® 12
AMD Radeon™ 680M	Integrated	Shared	Share CPU TDP	DirectX® 12

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and USB4®). More external displays can be supported via docking or daisy chain.

- HDMI® supports up to 4K@60Hz
- USB-C® supports up to 5K@60Hz
- USB4® supports up to 5K@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR5-4800

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-4800

Notes:

[1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type^[3]

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	128GB / 256GB / 512GB / 1TB

Notes:

- [1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.
The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.
- [2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).
- [3] 128GB SSD is qualified for Belgium, Netherlands, and Luxembourg only.

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- HD 720p, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 60Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)

Max Battery Life^[1]

- Models with 45Wh battery:
MobileMark® 25: 7.46 hr
Local video (1080p) playback@150nits: 14.85 hr
- Models with 60Wh battery:
MobileMark® 25: 11.0 hr
Local video (1080p) playback@150nits: 17.75 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**^[1]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

^[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
14"	WUXGA (1920x1200)	Non-touch	IPS ^[1]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	Multi-touch	IPS ^[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	Non-touch	IPS ^[3]	300nits	Anti-glare	16:10	1000:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0

Touchscreen

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

Screen-to-Body Ratio

90%

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, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

Models	Dimensions
--------	------------

Models with aluminium (top) and PC-ABS (bottom)	313.5 x 224 x 17.6 mm (12.34 x 8.82 x 0.69 inches)
Models with aluminium (top) and aluminium (bottom)	313.5 x 224 x 16.9 mm (12.34 x 8.82 x 0.67 inches)

Weight^[2]

Models	Weight
Models with aluminium (top) and PC-ABS (bottom)	Starting at 1.36 kg (2.99 lbs)
Models with aluminium (top) and aluminium (bottom)	Starting at 1.38 kg (3.04 lbs)

Case Color**

- Arctic grey, dual-tone design
- Cosmic blue, dual-tone design

Case Material**

- Aluminium (top), PC-ABS (bottom)
- Aluminium (top), aluminium (bottom)

Surface Treatment

Anodizing sandblasting

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®**^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

- [1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.
- [2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 1.4
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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 USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 14 G7 ARP](#)

SECURITY & PRIVACY

Security

Security Chip**

- Firmware TPM 2.0 integrated in SoC
- Discrete TPM 2.0, TCG certified^[1]

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

- Touch style fingerprint reader integrated in power button, match-on-chip
- No fingerprint reader^[2]

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)^[3]

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] The Discrete TPM 2.0 is available for India only.

[2] No fingerprint reader is for special bid only.

[3] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 14 G7 ARP](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
97% recycled content in PIC cushion
90% recycled content in OBP bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- 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. 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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

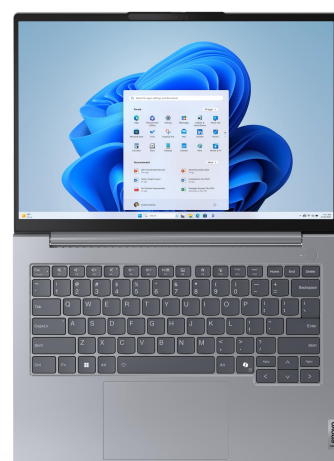
- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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.

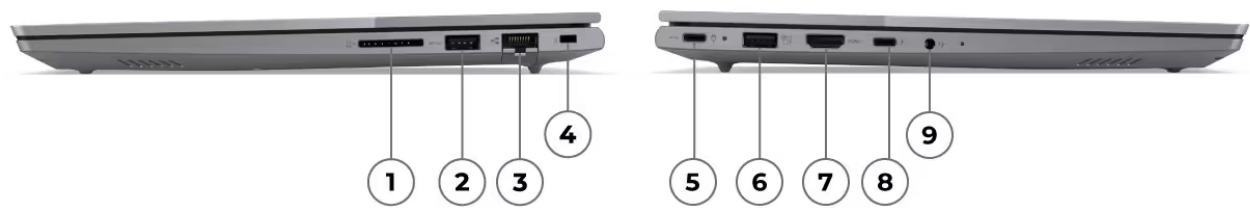
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OVERVIEW



1. SD card reader	6. USB-A (USB 5Gbps), Always On
2. USB-A (USB 5Gbps)	7. HDMI
3. Ethernet (RJ-45)	8. Thunderbolt 4
4. Kensington Nano Security Slot	9. Headphone / microphone combo jack (3.5mm)
5. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	

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	Intel® vPro® Eligibility	NPU
Core Ultra 5 125U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.3GHz / E-core 800MHz / LP E-core 700MHz	P-core 4.3GHz / E-core 3.6GHz / LP E-core 2.1GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® vPro® Essentials	Intel® AI Boost
Core Ultra 7 155U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.7GHz / E-core 1.2GHz / LP E-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LP E-core 2.1GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® vPro® Essentials	Intel® AI Boost
Core Ultra 5 125H	14 (4 P-core + 8 E-core + 2 LP E-core)	18	P-core 1.2GHz / E-core 700MHz / LP E-core 700MHz	P-core 4.5GHz / E-core 3.6GHz / LP E-core 2.5GHz	18MB Intel® Smart Cache	Intel® Arc™ Graphics ^[1]	Intel® vPro® Essentials	Intel® AI Boost
Core Ultra 7 155H	16 (6 P-core + 8 E-core + 2 LP E-core)	22	P-core 1.4GHz / E-core 900MHz / LP E-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LP E-core 2.5GHz	24MB Intel® Smart Cache	Intel® Arc™ Graphics ^[2]	Intel® vPro® Essentials	Intel® AI Boost

Notes:

[1], [2] Intel® Arc™ Graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

AI (Artificial Intelligence)

AI PC Category

AI PC^[1]

NPU

Integrated Intel® AI Boost, up to 11 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the optional Microsoft® Copilot key or using Win + C.

Operating System

Operating System**^[1]

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

Notes:

[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® Arc™ Graphics ^[1]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1

Notes:

[1] Intel® Arc™ Graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

Monitor Support

Monitor Support

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@60Hz

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

[1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each^[2]

Storage Slot^[3]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

[2] The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[3] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);

PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);

PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- HD 720p, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 60Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)

Max Battery Life^[1]

- Models with 45Wh battery:
MobileMark® 25: 6.5 hr
Local video (1080p) playback@150nits: 13.01 hr
- Models with 60Wh battery:
MobileMark® 25: 9.22 hr
Local video (1080p) playback@150nits: 21.9 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**^[1]

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

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
14"	WUXGA (1920x1200)	Non-touch	IPS ^[1]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	Multi-touch	IPS ^[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	Non-touch	IPS ^[3]	300nits	Anti-glare	16:10	1000:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0
14"	2.8K (2880x1800)	Non-touch	IPS ^[4]	400nits	Anti-glare	16:10	1500:1	100% sRGB	120Hz (Max)	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0

Touchscreen

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

Screen-to-Body Ratio

90%

Notes:

[1], [2], [3], [4] 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, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

Models	Dimensions
Models with aluminium (top) and PC-ABS (bottom)	313.5 x 224 x 17.6 mm (12.34 x 8.82 x 0.69 inches)
Models with aluminium (top) and aluminium (bottom)	313.5 x 224 x 16.9 mm (12.34 x 8.82 x 0.67 inches)

Weight^[2]

Models	Weight
Models with aluminium (top) and PC-ABS (bottom)	Starting at 1.36 kg (2.99 lbs)
Models with aluminium (top) and aluminium (bottom)	Starting at 1.38 kg (3.04 lbs)

Case Color

Arctic grey, dual-tone design

Case Material**

- Aluminium (top), PC-ABS (bottom)
- Aluminium (top), aluminium (bottom)

Surface Treatment

Anodizing sandblasting

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®**^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6 AX203, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, Intel® vPro® technology support, M.2 card^[2]

WWAN

No support

Ethernet**^[3]

- Gigabit Ethernet, Intel® Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel® Ethernet Connection I219-V (non-vPro® models), 1x RJ-45, supports Wake-on-LAN

Notes:

^[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

^[2] Intel® vPro® platform requires the hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. For detailed vPro® support information, please refer to the System Management section.

^[3] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 14 G7 IML](#)

SECURITY & PRIVACY

Security

Security Chip^[1]

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)^[2]

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] The Discrete TPM 2.0 is technical readiness.

[2] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

MANAGEABILITY

System Management

System Management^[1]

- Intel® vPro® Essentials^[2]
- Non-vPro®

Notes:

[1] Intel® vPro® platform require an eligible Intel® processor, a supported operating system, Intel® LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. See [Intel® vPro® Platform](#) for details.

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

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 14 G7 IML](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
97% recycled content in PIC cushion
90% recycled content in OBP bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- 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. 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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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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OVERVIEW



1. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. Thunderbolt 4	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

- Intel® H Series Core Ultra 5 Processor (Series 1)
- Intel® U or H Series Core Ultra 5 / 7 Processor (Series 2)

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
Core Ultra 5 135H	14 (4 P-core + 8 E-core + 2 LP E-core)	18	P-core 1.7GHz / E-core 1.2GHz / LP E-core 700MHz	P-core 4.6GHz / E-core 3.6GHz / LP E-core 2.5GHz	18MB Intel® Smart Cache	Intel® Arc™ Graphics ^[1]	Intel® AI Boost, up to 11 TOPS	Up to 33 TOPS
Core Ultra 5 225H	14 (4 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.7GHz / E-core 1.3GHz / LP E-core 700MHz	P-core 4.9GHz / E-core 4.3GHz / LP E-core 2.5GHz	18MB Intel® Smart Cache	Intel® Arc™ 130T GPU, up to 63 TOPS ^[2]	Intel® AI Boost, up to 13 TOPS	Up to 83 TOPS
Core Ultra 5 225U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.5GHz / E-core 1.3GHz / LP E-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LP E-core 2.4GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 12 TOPS	-
Core Ultra 5 235U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 2.0GHz / E-core 1.6GHz / LP E-core 700MHz	P-core 4.9GHz / E-core 4.1GHz / LP E-core 2.4GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 12 TOPS	-
Core Ultra 7 255H	16 (6 P-core + 8 E-core + 2 LP E-core)	16	P-core 2GHz / E-core 1.5GHz / LP E-core 700MHz	P-core 5.1GHz / E-core 4.4GHz / LP E-core 2.5GHz	24MB Intel® Smart Cache	Intel® Arc™ 140T GPU, up to 74 TOPS ^[3]	Intel® AI Boost, up to 13 TOPS	Up to 96 TOPS

Notes:

[1], [2], [3] Intel® Arc™ Graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

AI (Artificial Intelligence)

AI PC Category

AI PC^[1]

NPU

Integrated Intel® AI Boost, up to 13 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the optional Microsoft® Copilot key or using Win + C.

Operating System

Operating System**^[1]

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

Notes:

[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® Arc™ 130T GPU ^[1]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Arc™ 140T GPU ^[2]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Arc™ Graphics ^[3]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.2

Notes:

- [1], [2] Intel® Arc™ Graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.
- [3] Intel® Arc™ graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

Monitor Support

Monitor Support^[1]

- Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)
- HDMI® supports up to 4096x2160@60Hz
 - USB-C® supports up to 5120x2880@60Hz
 - Thunderbolt™ supports up to 5120x2880@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]

Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

- [1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.

Storage

Max Storage Support^[1]

- Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

- [1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.
- The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.
- [2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe®

device. The listed values represent theoretical maximums.
PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)^[1]
- 60Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)^[2]

Max Battery Life^[3]

- Models with 45Wh battery:
MobileMark® 30@250nits: 9.2 hr
Local video (1080p) playback@150nits: 14.2 hr
- Models with 60Wh battery:
MobileMark® 30@250nits: 11.5 hr
Local video (1080p) playback@150nits: 18.5 hr

Notes:

[1], [2] 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.

[3] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**^[1]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
14"	WUXGA (1920x1200)	Non-touch	IPS ^[1]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	Multi-touch	IPS ^[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)

Touchscreen

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

Screen-to-Body Ratio

90%

Notes:

[1], [2] 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, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

313.5 x 224 x 17.5 mm (12.34 x 8.82 x 0.69 inches)

Weight^[2]

Starting at 1.36 kg (2.99 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting (top), texture (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

WLAN + Bluetooth®

**^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6 AX203, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

^[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

^[2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]**Standard Ports**

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 14 G8 IAL](#)**SECURITY & PRIVACY****Security****Security Chip**

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator^{\[1\]}](#)

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

MANAGEABILITY

System Management

System Management

Non-vPro®

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toplayer, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 14 G8 IAL](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

15% PCC recycled plastic used in the cover frame
25% PCC recycled plastic used in the battery frame
50% PCC recycled plastic used in keycaps

30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
FSC certified content in carton box and accessory box
Dry pressed pulp cushion
Bamboo fiber bag (for NA / EMEA)
Bamboo fiber screen sheet
90% recycled content in OBP bag

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

TÜV Rheinland® Low Blue Light (Software Solution)

- 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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- The specifications on this page may not be available in all regions, and may be changed or updated without notice.



OVERVIEW



1. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. Thunderbolt 4	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

Intel® U Series Core 3 Processor (Series 1), Intel® H Series Core 5 / 7 Processor (Series 2), or 13th Generation Intel® Core™ i5 Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i5-13420H	8 (4 P-core + 4 E-core)	12	-	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® UHD Graphics
Core 3 100U	6 (2 P-core + 4 E-core)	8	P-core 1.2GHz / E-core 900MHz	P-core 4.7GHz / E-core 3.3GHz	10MB Intel® Smart Cache	Intel® Graphics
Core 5 210H	8 (4 P-core + 4 E-core)	12	P-core 2.2GHz / E-core 1.6GHz	P-core 4.8GHz / E-core 3.6GHz	12MB Intel® Smart Cache	Intel® Graphics
Core 5 220U	10 (2 P-core + 8 E-core)	12	P-core 1.4GHz / E-core 900MHz	P-core 5.0GHz / E-core 3.8GHz	12MB Intel® Smart Cache	Intel® Graphics
Core 7 240H	10 (6 P-core + 4 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 5.2GHz / E-core 4.0GHz	24MB Intel® Smart Cache	Intel® Graphics

Operating System

Operating System**^[1]

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

Notes:

^[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

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

Monitor Support

Monitor Support

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@60Hz

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]

- Up to 64GB DDR5-5200
- Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type**

- DDR5-5200^[2]
- DDR5-5600

Notes:

- [1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.
- [2] The memory installed on the model with Intel® Core™ 3 100U or Intel® Core™ i5-13420H is actually DDR5-5600 but runs as DDR5-5200 due to platform limitation.

Storage

Max Storage Support^[1]

- Up to two drives, 2x M.2 SSD
- M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

- [1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.
- The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.
- [2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
- PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
- PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
- PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)^[1]
- 60Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)^[2]

Max Battery Life^[3]

- Models with 45Wh battery:
MobileMark® 30@25Onits: 6.1 hr
Local video (1080p) playback@15Onits: 12.63 hr
- Models with 60Wh battery:
MobileMark® 30@25Onits: 8.5 hr
Local video (1080p) playback@15Onits: 16.65 hr

Notes:

[1], [2] 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.

[3] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**[1]
- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
 - 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
 - No power adapter

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

DESIGN

Display

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
14"	WUXGA (1920x1200)	Non-touch	IPS[1]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	Multi-touch	IPS[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)

- Touchscreen
- Add-on Film Touch, supports 10-point touch
 - Non-touch

Screen-to-Body Ratio

90%

Notes:

[1], [2] 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, key travel 1.5mm, Copilot key

- Keyboard Backlight
- LED backlight
 - Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

313.5 x 224 x 17.5 mm (12.34 x 8.82 x 0.69 inches)

Weight^[2]

Starting at 1.36 kg (2.99 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

- Aluminium (top), PC-ABS (bottom)
- Aluminium (top), aluminium (bottom)^[3]

Surface Treatment

Anodizing sandblasting (top), texture (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.

[3] Aluminium bottom cover is for special bid on Pakistan only.

CONNECTIVITY

Network

WLAN + Bluetooth®**^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6 AX203, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 14 G8 IRL](#)

SECURITY & PRIVACY

Security

Security Chip**

- Firmware TPM 2.0 integrated in SoC
- Discrete TPM 2.0, TCG certified^[1]

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

- Touch style fingerprint reader integrated in smart power button
- No fingerprint reader

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)^[2]

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] Discrete TPM 2.0 is for special bid only.

[2] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

MANAGEABILITY

System Management

System Management

Non-vPro®

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 14 G8 IRL](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

25% PCC recycled plastic used in the battery pack enclosure

50% PCC recycled plastic used in key caps

30% PCC recycled plastic used in speaker

90% PCC recycled plastic used in standard 65W adapter

Plastic free packaging (for EMEA & NA)

Dry pressed pulp cushion

90% recycled content in OBP bag or bamboo fiber bag

FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

TÜV Rheinland® Low Blue Light (Software Solution)

- 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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OVERVIEW



1. USB-C (USB4 40Gbps), USB PD 3.0 & DP1.4a	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. USB-C (USB4 40Gbps), USB PD 3.0 & DP 1.4a	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 3 / 5 / 7 200 Series Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
AMD Ryzen™ 3 210	4	8	3.0GHz	4.7GHz	4MB L2 / 8MB L3	AMD Radeon™ 740M	-	-
AMD Ryzen™ 5 220	6	12	3.2GHz	4.9GHz	6MB L2 / 16MB L3	AMD Radeon™ 740M	-	-
AMD Ryzen™ 7 250	8	16	3.3GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 780M	AMD Ryzen™ AI, up to 16 TOPS	Up to 38 TOPS

AI (Artificial Intelligence)

AI PC Category

AI PC (models with AMD Ryzen™ 7 250 processor)

NPU^[1]

Integrated AMD Ryzen™ AI, up to 16 TOPS

Notes:

[1] Only for the models with AMD Ryzen™ 7 250 processor.

Operating System

Operating System**

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

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
AMD Radeon™ 740M	Integrated	Shared	Share CPU TDP	DirectX® 12
AMD Radeon™ 780M	Integrated	Shared	Share CPU TDP	DirectX® 12

Monitor Support

Monitor Support^[1]

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB4®)

- HDMI® supports up to 4096x2160@60Hz
- USB4® supports up to 5120x2880@60Hz

Notes:

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

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

[1] Maximum memory 64GB DDR5-5600 is only to test technical readiness of notebook. Available memory to sell would vary.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2242 SSD up to 2TB
- M.2 2280 SSD up to 2TB

Storage Slot^[2]

Two M.2 slots

- One M.2 2242 PCIe® 4.0 x4 slot
- One M.2 2280 PCIe® 4.0 x4 slot

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

- PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- 5.0MP, with privacy shutter, fixed focus

Battery

Battery**

- 48Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 64Wh Rechargeable Li-ion Battery

Battery Life^[1]

Configuration 1

MobileMark® 30: up to 10.25 hr @25Onits

Local video playback: up to 13.05 hr @15Onits

Configuration 2

MobileMark® 30: up to 9.38 hr @250nits
Local video playback: up to 13.71 hr @150nits

Notes:

- [1] Configuration 1: WUXGA (non-touch), AMD Ryzen™ 5 220, 16GB DDR5, Win 11, 48Wh battery, best power efficiency power mode
Configuration 2: WUXGA (non-touch), AMD Ryzen™ 7 250, 32GB DDR5, Win 11, 48Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark® 30](#), continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level). 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® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

- [1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
14"	WUXGA (1920x1200)	Non-touch	IPS ^[1]	400nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	In-cell touch	IPS ^[2]	400nits	Anti-glare	16:10	1200:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0
14"	2.8K (2880x1800)	Non-touch	IPS ^[3]	500nits	Anti-glare	16:10	1500:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0

Touchscreen

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

Screen-to-Body Ratio

90%

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, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical**Dimensions (WxDxH)^[1]**

313.5 x 224 x 17.5 mm (12.34 x 8.82 x 0.69 inches)

Weight^[2]

Starting at 1.36 kg (2.99 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting (top), texture (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****WLAN + Bluetooth®**^[1]**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]**Standard Ports**

- 1x USB-A (USB 5Gbps), Always On
- 1x USB-A (USB 5Gbps)
- 2x USB-C® (USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 1.4a
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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 USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 14 G9 AHP](#)

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories***[1]

- Lenovo® 16-inch Laptop Topload T210 Black (ECO)
- Lenovo® Essential Wired Mouse (Plastic Free)
- Lenovo® USB-A Wired Stereo Headset Gen 2 (Plastic Free)
- ThinkBook® Bluetooth® Silent Mouse (Plastic Free)
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 14 G9 AHP](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)

- Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

30% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
Plastic free packaging (for EMEA & NA)
Dry pressed pulp cushion
90% recycled content in OBP bag or bamboo fiber bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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.
- Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.

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AMD



AMD



AMD



AMD



AMD



AMD

OVERVIEW



1. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. Thunderbolt 4	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

- 13th Generation Intel® H Series Core i5 Processor
- Intel® H Series Core 5 / 7 Processor (Series 2)
- Intel® U Series Core 3 Processor (Series 1)

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i5-13420H	8 (4 P-core + 4 E-core)	12	-	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® UHD Graphics
Core 3 100U	6 (2 P-core + 4 E-core)	8	P-core 1.2GHz / E-core 900MHz	P-core 4.7GHz / E-core 3.3GHz	10MB Intel® Smart Cache	Intel® Graphics
Core 5 210H	8 (4 P-core + 4 E-core)	12	P-core 2.2GHz / E-core 1.6GHz	P-core 4.8GHz / E-core 3.6GHz	12MB Intel® Smart Cache	Intel® Graphics
Core 7 240H	10 (6 P-core + 4 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 5.2GHz / E-core 4.0GHz	24MB Intel® Smart Cache	Intel® Graphics

Operating System

Operating System**

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

Graphics

Graphics

Graphics	Type	Memory	TGP	Key Features
Intel® UHD Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.2

Monitor Support

Monitor Support^[1]

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@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]

- Up to 64GB DDR5-5200
- Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type**

- DDR5-5200^[2]

- DDR5-5600

Notes:

[1] Maximum memory is only to test technical readiness of notebook. Available memory to sell would vary.

[2] The memory installed on the model with Intel® Core™ i5-13420H is actually DDR5-5600 but runs as DDR5-5200 due to platform limitation.

Storage

Max Storage Support^[1]

- Up to two drives, 2x M.2 SSD
- M.2 2242 SSD up to 2TB
 - M.2 2280 SSD up to 2TB

Storage Slot^[2]

- Two M.2 slots
- One M.2 2242 PCIe® 4.0 x4 slot
 - One M.2 2280 PCIe® 4.0 x4 slot

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);

PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);

PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- 5.0MP, with privacy shutter, fixed focus

Battery

Battery**

- 48Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 64Wh Rechargeable Li-ion Battery

Battery Life^[1]

Configuration 1

MobileMark® 30: up to 11.13 hr @250nits

Local video playback: up to 17.58 hr @150nits

Configuration 2

MobileMark® 30: up to 8.43 hr @250nits

Local video playback: up to 12.21 hr @150nits

Notes:

- [1] Configuration 1: WUXGA (touch), Intel® Core™ 7 240H, 32GB DDR5, Win 11, 64Wh battery, best power efficiency power mode
- Configuration 2: WUXGA (non-touch), Intel® Core™ i5-13420H, 16GB DDR5, Win 11, 48Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark® 30](#), continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level). 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® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

- [1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
14"	WUXGA (1920x1200)	Non-touch	IPS ^[1]	400nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
14"	WUXGA (1920x1200)	In-cell touch	IPS ^[2]	400nits	Anti-glare	16:10	1200:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0

Touchscreen

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

Screen-to-Body Ratio

90%

Notes:

- [1], [2] 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, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical**Dimensions (WxDxH)^[1]**

313.5 x 224 x 17.5 mm (12.34 x 8.82 x 0.69 inches)

Weight^[2]

Starting at 1.36 kg (2.99 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting (top), texture (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****WLAN + Bluetooth®**^[1]**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6 AX203, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]**Standard Ports**

- 1x USB-A (USB 5Gbps), Always On
- 1x USB-A (USB 5Gbps)
- 1x USB-C® (USB 10Gbps), with USB Power Delivery 3.0 and DisplayPort™ 1.4
- 1x Thunderbolt™ 4, with USB PD 3.0 and DisplayPort™ 1.4
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 14 G9 IRL](#)

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories***[1]

- Lenovo® 16-inch Laptop Topload T210 Black (ECO)
- Lenovo® Essential Wired Mouse (Plastic Free)
- Lenovo® USB-A Wired Stereo Headset Gen 2 (Plastic Free)
- ThinkBook® Bluetooth® Silent Mouse (Plastic Free)
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 14 G9 IRL](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)

- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

30% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
Plastic free packaging (for EMEA & NA)
Dry pressed pulp cushion
90% recycled content in OBP bag or bamboo fiber bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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.

- Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.

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OVERVIEW



1. SD card reader	6. USB 3.2 Gen 1 (Always On)
2. USB 3.2 Gen 1	7. HDMI
3. Ethernet (RJ-45)	8. Thunderbolt 4
4. Kensington Nano Security Slot	9. Headphone / microphone combo jack (3.5mm)
5. USB-C 3.2 Gen 2	

PERFORMANCE

Processor

Processor Family

13th Generation Intel® U, P or H Series Core i3 / i5 / i7 Processor

Processor**

Processor Name	Cores	Threads	Max Frequency	Cache	Processor Graphics
Core i3-1315U	6 (2 P-core + 4 E-core)	8	P-core 4.5GHz / E-core 3.3GHz	10MB Intel® Smart Cache	Intel® UHD Graphics
Core i5-1334U	10 (2 P-core + 8 E-core)	12	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[1]
Core i5-1335U	10 (2 P-core + 8 E-core)	12	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[2]
Core i5-1340P	12 (4 P-core + 8 E-core)	16	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[3]
Core i5-13420H	8 (4 P-core + 4 E-core)	12	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® UHD Graphics
Core i5-13500H	12 (4 P-core + 8 E-core)	16	P-core 4.7GHz / E-core 3.5GHz	18MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[4]
Core i7-1355U	10 (2 P-core + 8 E-core)	12	P-core 5.0GHz / E-core 3.7GHz	12MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[5]
Core i7-1360P	12 (4 P-core + 8 E-core)	16	P-core 5.0GHz / E-core 3.7GHz	18MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[6]
Core i7-13700H	14 (6 P-core + 8 E-core)	20	P-core 5.0GHz / E-core 3.7GHz	24MB Intel® Smart Cache	Intel® Iris® Xe Graphics ^[7]

Notes:

[1], [2], [3], [4], [5], [6], [7] 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
- No preload operating system

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® UHD Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1
Intel® Iris® Xe Graphics ^[1]	Integrated	Shared	Share CPU TDP	DirectX® 12.1

Notes:

[1] 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 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and Thunderbolt™)

- HDMI® supports up to 3840x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@60Hz

Chipset

Chipset
Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]
Up to 64GB DDR5-5200

Memory Slots
Two DDR5 SODIMM slots, dual-channel capable

Memory Type
DDR5-5200^[2]

Notes:
[1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.
[2] Installed memory is actually DDR5-5600 but runs as DDR5-5200 due to platform limitation.

Storage

Max Storage Support^[1]
Up to two drives, 2x M.2 SSD
• M.2 2242 SSD up to 1TB
• M.2 2280 SSD up to 2TB

Storage Slot^[2]
Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type^{***}

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4	512GB / 1TB

Notes:
[1] The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.
[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader
SD card reader

Multi-Media

Audio Chip
High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers
Stereo speakers, 2W x2, Dolby Audio™

Microphone
Dual-microphone array with smart noise-cancelling

Camera^{**}
• HD 720p, with privacy shutter, fixed focus
• FHD 1080p + IR hybrid, with privacy shutter, fixed focus
• FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 71Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Max Battery Life^[1]

- Models with 45Wh battery:
MobileMark® 2018: 9.15 hr
MobileMark® 25: 8.0 hr
Local video (1080p) playback@150nits: 14.43 hr
- Models with 71Wh battery:
MobileMark® 2018: 13.48 hr
MobileMark® 25: 11.82 hr
Local video (1080p) playback@150nits: 17.72 hr

Notes:

^[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2018, MobileMark® 25, 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**^[1]

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

Notes:

^[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

DESIGN

Display

Display**^[1]

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
16"	WUXGA (1920x1200)	Multi-touch	IPS	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	Non-touch	IPS	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	Non-touch	IPS	300nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0
16"	WQXGA (2560x1600)	Non-touch	IPS	350nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0
16"	WQXGA (2560x1600)	Non-touch	IPS	350nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0

Touchscreen

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

Screen-to-Body Ratio

90%

Notes:

[1] 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, numeric keypad, key travel 1.5mm

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

356 x 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

Weight^[2]

Starting at 1.7 kg (3.75 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting

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®**^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, Intel® vPro® technology support, M.2 card^[2]

WWAN

No support

Ethernet**^[3]

- Gigabit Ethernet, Intel® Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel® Ethernet Connection I219-V (non-vPro® models), 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Intel® vPro® platform requires the hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. For detailed vPro® support information, please refer to the System Management section.

[3] Wake-on-LAN needs the power adapter plugged in.

Ports

Standard Ports

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 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 HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

Docking

Docking

Various docking solutions supported via Thunderbolt™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G6 IRL](#)

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

Touch style fingerprint reader integrated in smart power button

BIOS Security

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

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

MANAGEABILITY

System Management

System Management^[1]

- Intel® vPro® Essentials^[2]
- Non-vPro®

Notes:

[1] Intel® vPro® platform require an eligible Intel® processor, a supported operating system, Intel® LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. See [Intel® vPro® Platform](#) for details.

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

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service

- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G6 IRL](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
90% PCC recycled plastic used in standard 65W and 100W adapter
95% recycled content in PIC cushion
30% recycled content in OBP bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 8.0 (till October 27th, 2025)
- ErP Lot 6/26
- FSC certified package
- RoHS compliant
- TCO Certified 9.0^[3]

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 and energystar.gov for more information.

[3] TCO certification is NOT available in India and Brazil.

Other Certifications

Mil-Spec Test

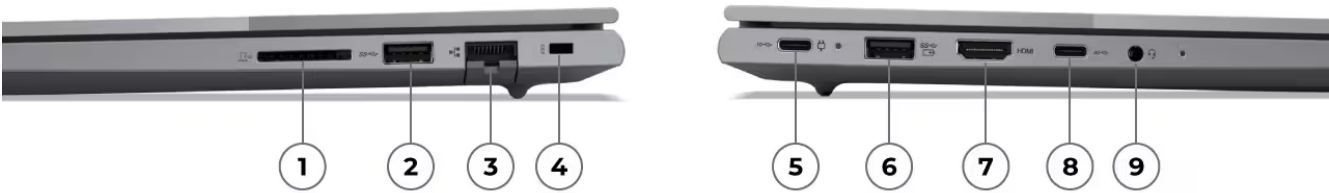
MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
 - (Optional) Intel® Evo™ Platform
 - (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
 - (Optional) TÜV Rheinland® Low Blue Light (Software Solution)
-
- 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.
 - Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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 - The specifications on this page may not be available in all regions, and may be changed or updated without notice.



OVERVIEW



1. SD card reader	6. USB-A (USB 5Gbps), Always On
2. USB-A (USB 5Gbps)	7. HDMI
3. Ethernet (RJ-45)	8. USB-C (USB4 40Gbps), with USB PD 3.0 & DP 1.4
4. Kensington Nano Security Slot	9. Headphone / microphone combo jack (3.5mm)
5. USB-C (USB 10Gbps), with USB PD 3.0 & DP 1.4	

PERFORMANCE

Processor

Processor Family

- AMD Ryzen™ 3 / 5 / 7 7000 Series Processor
- AMD Ryzen™ 5 / 7 100 Series Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
AMD Ryzen™ 3 7335U	4	8	3.0GHz	4.3GHz	2MB L2 / 8MB L3	AMD Radeon™ 660M
AMD Ryzen™ 5 150	6	12	3.3GHz	4.55GHz	3MB L2 / 16MB L3	AMD Radeon™ 660M
AMD Ryzen™ 5 7533HS	6	12	3.3GHz	4.45GHz	3MB L2 / 16MB L3	AMD Radeon™ 660M
AMD Ryzen™ 5 7535HS	6	12	3.3GHz	4.55GHz	3MB L2 / 16MB L3	AMD Radeon™ 660M
AMD Ryzen™ 7 170	8	16	3.2GHz	4.75GHz	4MB L2 / 16MB L3	AMD Radeon™ 680M
AMD Ryzen™ 7 7735HS	8	16	3.2GHz	4.75GHz	4MB L2 / 16MB L3	AMD Radeon™ 680M

Operating System

Operating System**^[1]

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

Notes:

^[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
AMD Radeon™ 660M	Integrated	Shared	Share CPU TDP	DirectX® 12
AMD Radeon™ 680M	Integrated	Shared	Share CPU TDP	DirectX® 12

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI®, USB-C® and USB4®). More external displays can be supported via docking or daisy chain.

- HDMI® supports up to 4K@60Hz
- USB-C® supports up to 5K@60Hz
- USB4® supports up to 5K@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR5-4800

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-4800

Notes:

[1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type**

Disk Type	Interface	Offering	Security
M.2 2242 SSD ^[3]	PCIe® NVMe®, PCIe® 4.0 x4	512GB / 1TB	Opal 2.0
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB	-

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);

PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);

PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

[3] SSD with Opal 2.0 is available for Romania only.

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- HD 720p, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 71Wh Rechargeable Li-ion Battery

Max Battery Life^[1]

- Models with 45Wh battery:
MobileMark® 25: 7.23 hr
Local video (1080p) playback@150nits: 12.5 hr
- Models with 71Wh battery:
MobileMark® 25: 12.75 hr
Local video (1080p) playback@150nits: 18.43 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**^[1]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

^[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
16"	WUXGA (1920x1200)	Multi-touch	IPS ^[1]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	Non-touch	IPS ^[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	Non-touch	IPS ^[3]	300nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0

Touchscreen

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

Screen-to-Body Ratio

90%

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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

356 x 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

Weight^[2]

Starting at 1.7 kg (3.75 lbs)

Case Color**

- Arctic grey, dual-tone design
- Cosmic blue, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting

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®**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card^[1]
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card^[2]

WWAN

No support

Ethernet^[3]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® 6 full features might be limited by country-level restrictions.

[2] Wi-Fi® 6E full features might be limited by country-level restrictions.

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.

[3] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 1.4
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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 USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G7 ARP](#)

SECURITY & PRIVACY

Security

Security Chip**

- Firmware TPM 2.0 integrated in SoC
- Discrete TPM 2.0, TCG certified^[1]

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

- Touch style fingerprint reader integrated in power button, match-on-chip
- No fingerprint reader^[2]

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)^[3]

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] The Discrete TPM 2.0 is available for Romania only.

[2] No fingerprint reader is for special bid only.

[3] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G7 ARP](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
97% recycled content in PIC cushion
90% recycled content in OBP bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- 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. 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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

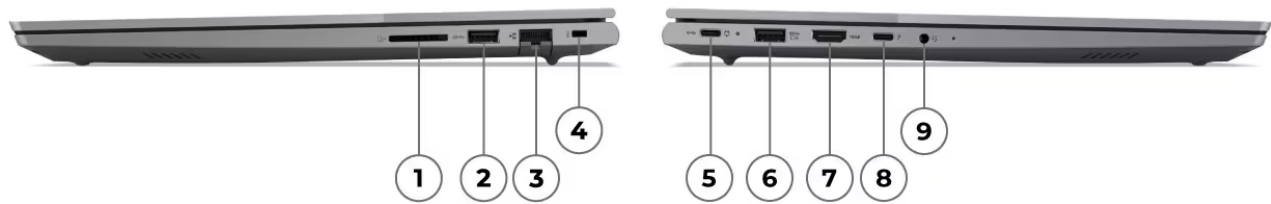
• Feature with ** means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.

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OVERVIEW



1. SD card reader	6. USB-A (USB 5Gbps), Always On
2. USB-A (USB 5Gbps)	7. HDMI
3. Ethernet (RJ-45)	8. Thunderbolt 4
4. Kensington Nano Security Slot	9. Headphone / microphone combo jack (3.5mm)
5. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	

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	Intel® vPro® Eligibility	NPU
Core Ultra 5 125U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.3GHz / E-core 800MHz / LP E-core 700MHz	P-core 4.3GHz / E-core 3.6GHz / LP E-core 2.1GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® vPro® Essentials	Intel® AI Boost
Core Ultra 7 155U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.7GHz / E-core 1.2GHz / LP E-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LP E-core 2.1GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® vPro® Essentials	Intel® AI Boost
Core Ultra 5 125H	14 (4 P-core + 8 E-core + 2 LP E-core)	18	P-core 1.2GHz / E-core 700MHz / LP E-core 700MHz	P-core 4.5GHz / E-core 3.6GHz / LP E-core 2.5GHz	18MB Intel® Smart Cache	Intel® Arc™ Graphics	Intel® vPro® Essentials	Intel® AI Boost
Core Ultra 7 155H	16 (6 P-core + 8 E-core + 2 LP E-core)	22	P-core 1.4GHz / E-core 900MHz / LP E-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LP E-core 2.5GHz	24MB Intel® Smart Cache	Intel® Arc™ Graphics	Intel® vPro® Essentials	Intel® AI Boost

AI (Artificial Intelligence)

AI PC Category

AI PC^[1]

NPU

Integrated Intel® AI Boost, up to 11 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the optional Microsoft® Copilot key or using Win + C.

Operating System

Operating System**^[1]

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

Notes:

[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® Arc™ Graphics ^[1]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1

Notes:

[1] Intel® Arc™ Graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

Monitor Support

Monitor Support

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@60Hz

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

[1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- HD 720p, with privacy shutter, fixed focus
- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 71Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Max Battery Life^[1]

- Models with 45Wh battery:
MobileMark® 25: 6.65 hr
Local video (1080p) playback@150nits: 16.73 hr
- Models with 71Wh battery:
MobileMark® 25: 11.05 hr
Local video (1080p) playback@150nits: 23.83 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**^[1]

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

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
16"	WUXGA (1920x1200)	Multi-touch	IPS ^[1]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	Non-touch	IPS ^[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	Non-touch	IPS ^[3]	300nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0
16"	WQXGA (2560x1600)	Non-touch	IPS ^[4]	350nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Factory color calibration, Eyesafe® Certified 2.0

Touchscreen

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

- Non-touch

Screen-to-Body Ratio

90%

Color Calibration

- TCON (Timing Controller) color calibration
- No color calibration

Notes:

[1], [2], [3], [4] 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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

356 x 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

Weight^[2]

Starting at 1.7 kg (3.75 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting

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®^[1]**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6 AX203, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, Intel® vPro® technology support, M.2 card^[2]

WWAN

No support

Ethernet^[3]**

- Gigabit Ethernet, Intel® Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel® Ethernet Connection I219-V (non-vPro® models), 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Intel® vPro® platform requires the hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. For detailed vPro® support information, please refer to the System Management section.

[3] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]**Standard Ports**

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G7 IML](#)

SECURITY & PRIVACY**Security****Security Chip^[1]**

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator^{\[2\]}](#)

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] The Discrete TPM 2.0 is technical readiness.

[2] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

MANAGEABILITY

System Management

System Management^[1]

- Intel® vPro® Essentials^[2]
- Non-vPro®

Notes:

[1] Intel® vPro® platform require an eligible Intel® processor, a supported operating system, Intel® LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. See [Intel® vPro® Platform](#) for details.

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

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G7 IML](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter

97% recycled content in PIC cushion
90% recycled content in OBP bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- 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. 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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

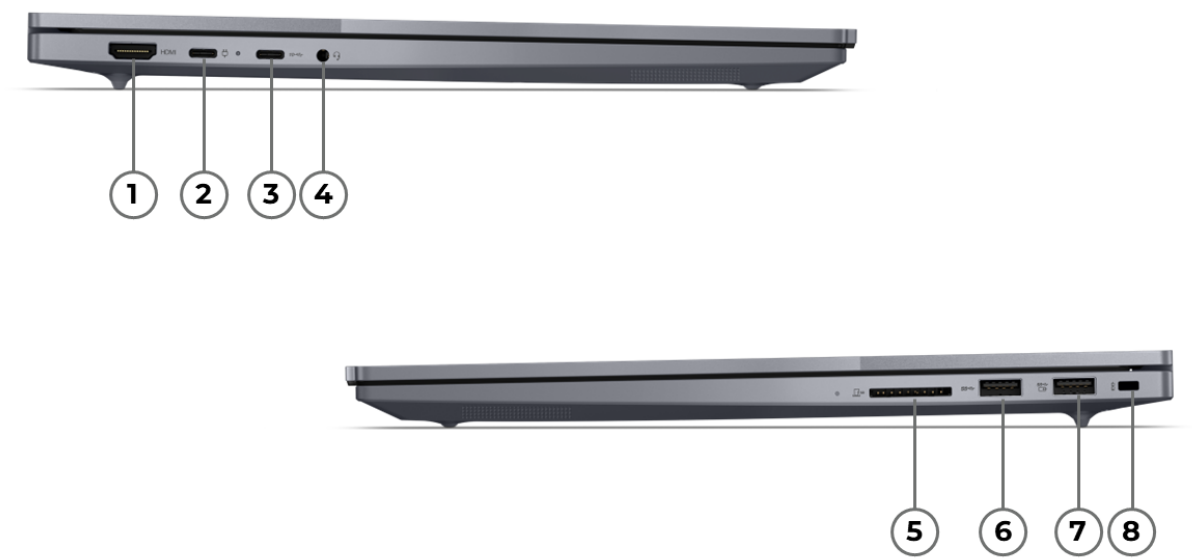
Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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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OVERVIEW



1. HDMI	5. SD card reader
2. USB-C (USB 10Gbps), with USB PD 3.1 & DP 1.4	6. USB-A (USB 5Gbps)
3. USB-C (USB 10Gbps), with USB PD 3.1 & DP 1.4	7. USB-A (USB 5Gbps), Always On
4. Headphone / microphone combo jack (3.5mm)	8. Kensington Nano Security Slot

PERFORMANCE

Processor

Processor Family

Snapdragon® X Plus or Snapdragon® X

Processor**

Processor Name	Cores	Max Frequency	Cache	Processor Graphics	NPU
Snapdragon® X Plus X1P-42-100	8	3.4GHz (single-core) / 3.2GHz (multi-core)	30MB Total	Qualcomm® Adreno™ GPU	Qualcomm® Hexagon™ NPU, up to 45 TOPS
Snapdragon® X X1-26-100	8	3.0GHz ^[1]	30MB Total	Qualcomm® Adreno™ GPU	Qualcomm® Hexagon™ NPU, up to 45 TOPS

Notes:

[1] Single-Core speeds up to 2.976 GHz / Multi-Core speeds up to 2.956 Ghz

AI (Artificial Intelligence)

AI PC Category

Copilot+ PC^[1]

NPU

Integrated Qualcomm® Hexagon™ NPU, up to 45 TOPS

Notes:

[1] Copilot+ PCs have at least 16GB RAM, 256GB storage, and a NPU that runs 40+ TOPs to run the latest AI tools build-in latest Windows® 11 to accelerate productivity and creativity.

Operating System

Operating System**

- Windows® 11 Pro (on ARM)
- Windows® 11 Home (on ARM)
- Windows® 11 Home Single Language (on ARM)

Graphics

Graphics

Graphics	Type	Memory	Key Features
Qualcomm® Adreno™ GPU	Integrated	Shared	DirectX® 12

Monitor Support

Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB-C®)

- HDMI® supports up to 4K@60Hz
- USB-C® supports up to 4K@60Hz

Chipset

Chipset

Qualcomm® SoC (System on Chip) platform

Memory

Max Memory

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

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5x-8448

Storage

Max Storage Support^[1]

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

Storage Slot^[2]

One M.2 2242 PCIe® 4.0 x4 slot

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	512GB / 1TB

Notes:

- [1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
- [2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
- PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
- PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
- PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Qualcomm® WCD9385 codec

Speakers

Stereo speakers (super linear speakers), 2W x2, Dolby Atmos®

Microphone

Dual-microphone array with smart noise-cancelling

Camera

FHD 1080p, with privacy shutter, fixed focus

Battery

Battery

84Wh Rechargeable Li-ion Battery

Max Battery Life^[1]

JEITA-BAT 3.0 (Video/Idle): up to 21.8 hr / 28.4 hr @200nits

Local video (1080p) playback@150nits: up to 30 hr

Notes:

- [1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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^[1]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

- [1] AC adapter offerings depend on the country.

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
16"	WUXGA (1920x1200)	Non-touch	IPS ^[1]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WQXGA (2560x1600)	Non-touch	IPS ^[2]	350nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Factory color calibration, Eyesafe® Certified 2.0

Touchscreen

Non-touch

Screen-to-Body Ratio

91.3%

Color Calibration

- TCON (Timing Controller) color calibration
- No color calibration

Notes:

[1], [2] 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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

LED backlight

Touchpad

Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)

Mechanical

Dimensions (WxDxH)^[1]

356.4 x 248.4 x 16.7 mm (14.03 x 9.78 x 0.66 inches)

Weight^[2]

Starting at 1.82 kg (4.02 lbs)

Case Color

Luna grey, dual-tone design

Case Material

Aluminium (top), aluminium (bottom)

Surface Treatment

Anodizing sandblasting

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^[1]

Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.3 (Bluetooth® 5.4 hardware ready)

WWAN

No support

Ethernet^[2]

No onboard Ethernet

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Ethernet support via optional Lenovo® USB-C® to Ethernet Adapter.

Ports^[1]

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® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.1 and DisplayPort™ 1.4
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD card reader

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.

SECURITY & PRIVACY

Security

Security Chip

Microsoft® Pluton TPM 2.0 Enabled

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator^{\[1\]}](#)

Other Security

Camera privacy shutter

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

SERVICE

Warranty

Base Warranty

- **
- 1-year courier or carry-in service
 - 2-year (1-yr battery) courier or carry-in service

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G7 QOY](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

30% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
90% recycled content in PIC cushion
100% use of paper in screen sheet
90% recycled content in OBP bag
FSC certified content in carton and accessory box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- 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. 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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
 - (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
 - (Optional) TÜV Rheinland® Low Blue Light (Software Solution)
-
- 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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Copilot+PC



Copilot+PC



Copilot+PC



Copilot+PC



Copilot+PC



Copilot+PC



OVERVIEW



1. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. Thunderbolt 4	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

- Intel® H Series Core Ultra 5 Processor (Series 1)
- Intel® U or H Series Core Ultra 5 / 7 Processor (Series 2)

Processor**[1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
Core Ultra 5 135H	14 (4 P-core + 8 E-core + 2 LP E-core)	18	P-core 1.7GHz / E-core 1.2GHz / LP E-core 700MHz	P-core 4.6GHz / E-core 3.6GHz / LP E-core 2.5GHz	18MB Intel® Smart Cache	Intel® Arc™ Graphics	Intel® AI Boost, up to 11 TOPS	Up to 33 TOPS
Core Ultra 5 225H	14 (4 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.7GHz / E-core 1.3GHz / LP E-core 700MHz	P-core 4.9GHz / E-core 4.3GHz / LP E-core 2.5GHz	18MB Intel® Smart Cache	Intel® Arc™ 130T GPU, up to 63 TOPS	Intel® AI Boost, up to 13 TOPS	Up to 83 TOPS
Core Ultra 5 225U	12 (2 P-core + 8 E-core + 2 LP E-core)	14	P-core 1.5GHz / E-core 1.3GHz / LP E-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LP E-core 2.4GHz	12MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 12 TOPS	-
Core Ultra 7 255H	16 (6 P-core + 8 E-core + 2 LP E-core)	16	P-core 2GHz / E-core 1.5GHz / LP E-core 700MHz	P-core 5.1GHz / E-core 4.4GHz / LP E-core 2.5GHz	24MB Intel® Smart Cache	Intel® Arc™ 140T GPU, up to 74 TOPS	Intel® AI Boost, up to 13 TOPS	Up to 96 TOPS

Notes:

[1] Intel® Arc™ graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

AI (Artificial Intelligence)

AI PC Category

AI PC[1]

NPU

Integrated Intel® AI Boost, up to 13 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the optional Microsoft® Copilot key or using Win + C.

Operating System

Operating System**[1]

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

Notes:

[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® Arc™ 130T GPU[1]	Integrated	Shared	Share CPU TDP	DirectX® 12.2

Intel® Arc™ 140T GPU ^[2]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Arc™ Graphics ^[3]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.2

Notes:

[1], [2], [3] Intel® Arc™ graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

Monitor Support

Monitor Support^[1]

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@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]

Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

[1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);

PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);

PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 71Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Max Battery Life^[1]

- Models with 45Wh battery:
MobileMark® 30@250nits: 7.7 hr
Local video (1080p) playback@150nits: 13.1 hr
- Models with 71Wh battery:
MobileMark® 30@250nits: 14 hr
Local video (1080p) playback@150nits: 19.5 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**^[1]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

DESIGN

Display

Display**^[1]

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
16"	WUXGA (1920x1200)	Multi-touch	IPS ^[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA	Non-	IPS ^[3]	300nits	Anti-	16:10	1000:1	45%	60Hz	89° / 89° /	TÜV Low

	(1920x1200)	touch			glare			NTSC		89° / 89°	Blue Light (Software)
16"	WQXGA (2560x1600)	Non-touch	IPS ^[4]	400nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0, TCON

Touchscreen

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

Screen-to-Body Ratio

90%

Color Calibration

- TCON (Timing Controller) color calibration
- No color calibration

Notes:

- [1] WQXGA display is available exclusively in Korea.
[2], [3], [4] 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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

356 x 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

Weight^[2]

Starting at 1.7 kg (3.75 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting (top), texture (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

WLAN + Bluetooth®**^[1]

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6 AX203, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card

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

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G8 IAL](#)

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator^{\[1\]}](#)

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

MANAGEABILITY

System Management

System Management

Non-vPro®

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toplayer, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G8 IAL](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

15% PCC recycled plastic used in the cover frame
25% PCC recycled plastic used in the battery frame
50% PCC recycled plastic used in keycaps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
FSC certified content in carton box and accessory box
Dry pressed pulp cushion
Bamboo fiber bag (for NA / EMEA)
Bamboo fiber screen sheet

90% recycled content in OBP bag

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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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OVERVIEW



1. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. Thunderbolt 4	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

Intel® U Series Core 3 Processor (Series 1), Intel® H Series Core 5 / 7 Processor (Series 2), or 13th Generation Intel® Core™ i5 Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i5-13420H	8 (4 P-core + 4 E-core)	12	-	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® UHD Graphics
Core 3 100U	6 (2 P-core + 4 E-core)	8	P-core 1.2GHz / E-core 900MHz	P-core 4.7GHz / E-core 3.3GHz	10MB Intel® Smart Cache	Intel® Graphics
Core 5 210H	8 (4 P-core + 4 E-core)	12	P-core 2.2GHz / E-core 1.6GHz	P-core 4.8GHz / E-core 3.6GHz	12MB Intel® Smart Cache	Intel® Graphics
Core 5 220H ^[1]	12 (4 P-core + 8 E-core)	16	P-core 2.7GHz / E-core 2.0GHz	P-core 4.9GHz / E-core 3.7GHz	18MB Intel® Smart Cache	Intel® Graphics
Core 7 240H	10 (6 P-core + 4 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 5.2GHz / E-core 4.0GHz	24MB Intel® Smart Cache	Intel® Graphics

Notes:

[1] Intel® Core™ 5 220H is for special bid in EMEA.

Operating System

Operating System**^[1]

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

Notes:

[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

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

Monitor Support

Monitor Support

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@60Hz

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]

- Up to 64GB DDR5-5200

- Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type**

- DDR5-5200^[2]
- DDR5-5600

Notes:

- [1] The max memory is based on the technical readiness of the system. Available memory to sell would vary.
- [2] The memory installed on the model with Intel® Core™ 3 100U or Intel® Core™ i5-13420H is actually DDR5-5600 but runs as DDR5-5200 due to platform limitation.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

- [1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.
- The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.
- [2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
- PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
- PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
- PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Battery

Battery**

- 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)^[1]
- 71Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter^[2]

Max Battery Life^[3]

- Models with 45Wh battery:
MobileMark® 30@250nits: 5.85 hr
Local video (1080p) playback@150nits: 12.45 hr

- Models with 71Wh battery:
MobileMark® 30@250nits: 9.55 hr
Local video (1080p) playback@150nits: 17.98 hr

Notes:

[1], [2] 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.

[3] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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**[1]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
16"	WUXGA (1920x1200)	Multi-touch	IPS ^[1]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	Non-touch	IPS ^[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)

Touchscreen

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

Screen-to-Body Ratio

90%

Notes:

[1], [2] 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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight

- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical**Dimensions (WxDxH)^[1]**

356 x 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

Weight^[2]

Starting at 1.7 kg (3.75 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting (top), texture (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****WLAN + Bluetooth®**^[1]**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6 AX203, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]**Standard Ports**

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G8 IRL](#)

SECURITY & PRIVACY

Security

Security Chip**

- Firmware TPM 2.0 integrated in SoC
- Discrete TPM 2.0, TCG certified^[1]

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

- Touch style fingerprint reader integrated in smart power button
- No fingerprint reader

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)^[2]

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

Notes:

[1] Discrete TPM 2.0 is for special bid only.

[2] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

MANAGEABILITY

System Management

System Management

Non-vPro®

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G8 IRL](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

25% PCC recycled plastic used in the battery pack enclosure

50% PCC recycled plastic used in key caps

30% PCC recycled plastic used in speaker

90% PCC recycled plastic used in standard 65W adapter

Plastic free packaging (for EMEA & NA)

Dry pressed pulp cushion

90% recycled content in OBP bag or bamboo fiber bag

FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

TÜV Rheinland® Low Blue Light (Software Solution)

- 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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OVERVIEW



1. USB-C (USB4 40Gbps), USB PD 3.0 & DP1.4a	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. USB-C (USB4 40Gbps), USB PD 3.0 & DP 1.4a	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 3 / 5 / 7 200 Series Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
AMD Ryzen™ 3 210	4	8	3.0GHz	4.7GHz	4MB L2 / 8MB L3	AMD Radeon™ 740M	-	-
AMD Ryzen™ 5 220	6	12	3.2GHz	4.9GHz	6MB L2 / 16MB L3	AMD Radeon™ 740M	-	-
AMD Ryzen™ 7 250	8	16	3.3GHz	5.1GHz	8MB L2 / 16MB L3	AMD Radeon™ 780M	AMD Ryzen™ AI, up to 16 TOPS	Up to 38 TOPS

AI (Artificial Intelligence)

AI PC Category

AI PC (models with AMD Ryzen™ 7 250 processor)

NPU^[1]

Integrated AMD Ryzen™ AI, up to 16 TOPS

Notes:

[1] Only for the models with AMD Ryzen™ 7 250 processor.

Operating System

Operating System**

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

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
AMD Radeon™ 740M	Integrated	Shared	Share CPU TDP	DirectX® 12
AMD Radeon™ 780M	Integrated	Shared	Share CPU TDP	DirectX® 12

Monitor Support

Monitor Support^[1]

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB4®)

- HDMI® supports up to 4096x2160@60Hz
- USB4® supports up to 5120x2880@60Hz

Notes:

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

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

[1] Maximum memory 64GB DDR5-5600 is only to test technical readiness of notebook. Available memory to sell would vary.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2242 SSD up to 2TB
- M.2 2280 SSD up to 2TB

Storage Slot^[2]

Two M.2 slots

- One M.2 2242 PCIe® 4.0 x4 slot
- One M.2 2280 PCIe® 4.0 x4 slot

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

- PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- 5.0MP, with privacy shutter, fixed focus

Battery

Battery**

- 48Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 71Wh Rechargeable Li-ion Battery

Battery Life^[1]

Configuration 1

MobileMark® 30: up to 13.68 hr @25Onits

Local video playback: up to 18.53 hr @150nits

Configuration 2

MobileMark® 30: up to 10.03 hr @250nits
Local video playback: up to 13.51 hr @150nits

Notes:

- [1] Configuration 1: WUXGA (non-touch), AMD Ryzen™ 7 250, 16GB DDR5, Win 11, 71Wh battery, best power efficiency power mode
Configuration 2: WUXGA (non-touch), AMD Ryzen™ 5 220, 16GB DDR5, Win 11, 48Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark® 30](#), continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level). 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® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

- [1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
16"	WUXGA (1920x1200)	Non-touch	IPS ^[1]	400nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	In-cell touch	IPS ^[2]	400nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0
16"	WQXGA (2560x1600)	Non-touch	IPS ^[3]	400nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0, TCON

Touchscreen

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

Screen-to-Body Ratio

90%

Color Calibration

- TCON (Timing Controller) color calibration
- No color calibration

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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical**Dimensions (WxDxH)^[1]**

356 x 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

Weight^[2]

Starting at 1.7 kg (3.75 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting (top), texture (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****WLAN + Bluetooth®**^[1]**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]**Standard Ports**

- 1x USB-A (USB 5Gbps), Always On
- 1x USB-A (USB 5Gbps)
- 2x USB-C® (USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 1.4a
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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 USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G9 AHP](#)

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories***[1]

- Lenovo® 16-inch Laptop Topload T210 Black (ECO)
- Lenovo® Essential Wired Mouse (Plastic Free)
- Lenovo® USB-A Wired Stereo Headset Gen 2 (Plastic Free)
- ThinkBook® Bluetooth® Silent Mouse (Plastic Free)
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G9 AHP](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

30% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
Plastic free packaging (for EMEA & NA)
Dry pressed pulp cushion
90% recycled content in OBP bag or bamboo fiber bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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.
- Feature with *** means that one or more options listed under the feature can be configured on selected

models. Please refer to the model configuration for specific information.

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AMD



AMD



AMD



AMD



AMD



AMD

OVERVIEW



1. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. Thunderbolt 4	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

- 13th Generation Intel® H Series Core i5 Processor
- Intel® H Series Core 5 / 7 Processor (Series 2)
- Intel® U Series Core 3 Processor (Series 1)

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core i5-13420H	8 (4 P-core + 4 E-core)	12	-	P-core 4.6GHz / E-core 3.4GHz	12MB Intel® Smart Cache	Intel® UHD Graphics
Core 3 100U	6 (2 P-core + 4 E-core)	8	P-core 1.2GHz / E-core 900MHz	P-core 4.7GHz / E-core 3.3GHz	10MB Intel® Smart Cache	Intel® Graphics
Core 5 210H	8 (4 P-core + 4 E-core)	12	P-core 2.2GHz / E-core 1.6GHz	P-core 4.8GHz / E-core 3.6GHz	12MB Intel® Smart Cache	Intel® Graphics
Core 7 240H	10 (6 P-core + 4 E-core)	16	P-core 2.5GHz / E-core 1.8GHz	P-core 5.2GHz / E-core 4.0GHz	24MB Intel® Smart Cache	Intel® Graphics

Operating System

Operating System**

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

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® UHD Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.1
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.2

Monitor Support

Monitor Support^[1]

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@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]

- Up to 64GB DDR5-5200
- Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type**

- DDR5-5200^[2]

- DDR5-5600

Notes:

- [1] Maximum memory is only to test technical readiness of notebook. Available memory to sell would vary.
- [2] The memory installed on the model with Intel® Core™ i5-13420H is actually DDR5-5600 but runs as DDR5-5200 due to platform limitation.

Storage

Max Storage Support^[1]

- Up to two drives, 2x M.2 SSD
- M.2 2242 SSD up to 2TB
 - M.2 2280 SSD up to 2TB

Storage Slot^[2]

- Two M.2 slots
- One M.2 2242 PCIe® 4.0 x4 slot
 - One M.2 2280 PCIe® 4.0 x4 slot

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	256GB / 512GB / 1TB

Notes:

- [1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.
- The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.
- [2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
- PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
- PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
- PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby Audio™

Microphone

Dual-microphone array with smart noise-cancelling

Camera**

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus
- 5.0MP, with privacy shutter, fixed focus

Battery

Battery**

- 48Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- 71Wh Rechargeable Li-ion Battery

Battery Life^[1]

Configuration 1

MobileMark® 30: up to 10.98 hr @250nits

Local video playback: up to 16.03 hr @150nits

Configuration 2

MobileMark® 30: up to 7.71 hr @250nits

Local video playback: up to 14.28 hr @150nits

Notes:

- [1] Configuration 1: WUXGA (non-touch), Intel® Core™ 7 240H, 32GB DDR5, Win 11, 71Wh battery, best power efficiency power mode
- Configuration 2: WUXGA (non-touch), Intel® Core™ 5 210H, 16GB DDR5, Win 11, 48Wh battery, best power efficiency power mode

All battery life claims are approximate maximum and based on results using [MobileMark® 30](#), continuous 1080p local video playback (using default Media Player in Fullscreen mode with 150nits brightness and default volume level). 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® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

- [1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
16"	WUXGA (1920x1200)	Non-touch	IPS[1]	400nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	In-cell touch	IPS[2]	400nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0

Touchscreen

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

Screen-to-Body Ratio

90%

Notes:

- [1], [2] 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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

- LED backlight
- Non-backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical**Dimensions (WxDxH)^[1]**

356 x 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

Weight^[2]

Starting at 1.7 kg (3.75 lbs)

Case Color

Arctic grey, dual-tone design

Case Material

Aluminium (top), PC-ABS (bottom)

Surface Treatment

Anodizing sandblasting (top), texture (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****WLAN + Bluetooth®**^[1]**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6 AX203, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card
- Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card
- Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card

WWAN

No support

Ethernet^[2]

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Wi-Fi® operation (including Wi-Fi® 6, Wi-Fi® 6E, Wi-Fi® 7, etc.) is subject to the regulatory requirements of each country. Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[2] Wake-on-LAN needs the power adapter plugged in.

Ports^[1]**Standard Ports**

- 1x USB-A (USB 5Gbps), Always On
- 1x USB-A (USB 5Gbps)
- 1x USB-C® (USB 10Gbps), with USB Power Delivery 3.0 and DisplayPort™ 1.4
- 1x Thunderbolt™ 4, with USB PD 3.0 and DisplayPort™ 1.4
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G9 IRL](#)

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows® Hello (facial recognition)

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories***[1]

- Lenovo® 16-inch Laptop Topload T210 Black (ECO)
- Lenovo® Essential Wired Mouse (Plastic Free)
- Lenovo® USB-A Wired Stereo Headset Gen 2 (Plastic Free)
- ThinkBook® Bluetooth® Silent Mouse (Plastic Free)
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G9 IRL](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)

- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

30% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
Plastic free packaging (for EMEA & NA)
Dry pressed pulp cushion
90% recycled content in OBP bag or bamboo fiber bag
FSC certified content in carton box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

Other Certifications

Mil-Spec Test

MIL-STD-810G military test passed

Other Certifications

- Eyesafe® Certified 2.0
- (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
- (Optional) TÜV Rheinland® Low Blue Light (Software Solution)

- 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.
- Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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OVERVIEW



1. SD card reader	5. USB-A (USB 10Gbps), Always On
2. 2x USB-A (USB 5Gbps)	6. 2x USB-C (USB 10Gbps), USB PD 3.1 & DP1.4a
3. HDMI	7. Headphone / microphone combo jack (3.5mm)
4. Power connector	

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 9 8000 Series Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
AMD Ryzen™ 9 8940HX	16	32	2.4GHz	5.3GHz	16MB L2 / 64MB L3	AMD Radeon™ 610M
AMD Ryzen™ 9 8945HX	16	32	2.5GHz	5.4GHz	16MB L2 / 64MB L3	AMD Radeon™ 610M

Operating System

Operating System**

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

Graphics

Graphics

Graphics	Type	Memory	Boost Clock	TGP	AI TOPS (Peak)	Key Features
NVIDIA® GeForce RTX™ 5060 Laptop GPU	Discrete	8GB GDDR7	2497 MHz	115W	572 TOPS	Dynamic Boost 2.0, DirectX® 12 Ultimate

Monitor Support

Monitor Support^[1]

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB-C®)

- HDMI® supports up to 7680x4320@60Hz
- USB-C® supports up to 7680x4320@60Hz^[2]

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

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR5-5200

Memory Slots

Two DDR5 SODIMM slots, dual-channel capable

Memory Type

DDR5-5200^[2]

Notes:

- ^[1] The max memory is based on the test results with current Lenovo® memory offerings.
- ^[2] Installed memory is actually DDR5-5600 but runs as DDR5-5200 due to platform limitation.

Storage

Max Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each

Storage Slot^[2]

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	512GB / 1TB

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

The max storage capacity is only technical readiness and may be different from current Lenovo® storage offerings.

[2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);

PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);

PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2

Microphone

Dual-microphone array with smart noise-cancelling

Camera

HD 720p, with privacy shutter, fixed focus

Battery

Battery

85Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)^[1]

Max Battery Life^[2]

MobileMark® 30@250nits: 4.11 hr

Notes:

[1] Rapid Charge Pro is only effective in hibernates or fully shutting down the computer.

[2] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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^[1]

- 300W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- No power adapter

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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
16"	WQXGA (2560x1600)	Non-touch	IPS ^[1]	350nits	Anti-glare	16:10	1200:1	100% sRGB	165Hz VRR	89° / 89° / 89° / 89°	NVIDIA® G-SYNC®, Advanced Optimus support, X-Rite® factory color calibration (average ΔE<2), Eyesafe® Certified 2.0
16"	WQXGA (2560x1600)	Non-touch	IPS ^[2]	500nits	Anti-glare	16:10	1200:1	100% DCI-P3	240Hz VRR	89° / 89° / 89° / 89°	NVIDIA® G-SYNC®, Advanced Optimus support, X-Rite® factory color calibration (average ΔE<2), DisplayHDR™ 400, Eyesafe® Certified 2.0

Touchscreen

Non-touch

Screen-to-Body Ratio

93%

Color Calibration

X-Rite® factory color calibration

Notes:

[1], [2] 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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

Smart sense keyboard backlight

Touchpad

Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)

Mechanical

Dimensions (WxDxH)^[1]

354.6 x 256.2 x 19.3 mm (13.96 x 10.09 x 0.76 inches)

Weight^[2]

Less than 2.15 kg (4.74 lbs)

Case Color

Luna grey, dual-tone design

Case Material

Aluminium (top), aluminium (bottom)

Surface Treatment

Anodizing sandblasting

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^[1]

Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card^[2]

WWAN

No support

Ethernet

No onboard Ethernet

Notes:

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

[2] Wi-Fi® 7 operation is subject to the regulation rules in each country.

Ports^[1]

Standard Ports

- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2), Always On
- 2x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD card reader
- 1x Magic Bay (pogo pin connector)
- 1x Power connector

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 USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16p G6 ADR](#)

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

No fingerprint reader

BIOS Security

- Hard disk password
- Power-on password

- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator^{\[1\]}](#)

Other Security

Camera privacy shutter

Notes:

^[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

None

Notes:

^[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16p G6 ADR](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

50% recycled aluminum alloy on bottom cover
25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker enclosure
100% use of paper in cushion, screen sheet, bag, carton handle, and sealing label

FSC certified content in carton box and accessory box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 3
- RoHS compliant

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- Eyesafe® Certified 2.0
- TÜV Rheinland® Low Blue Light (Hardware Solution)

- 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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AMD



AMD



AMD



AMD

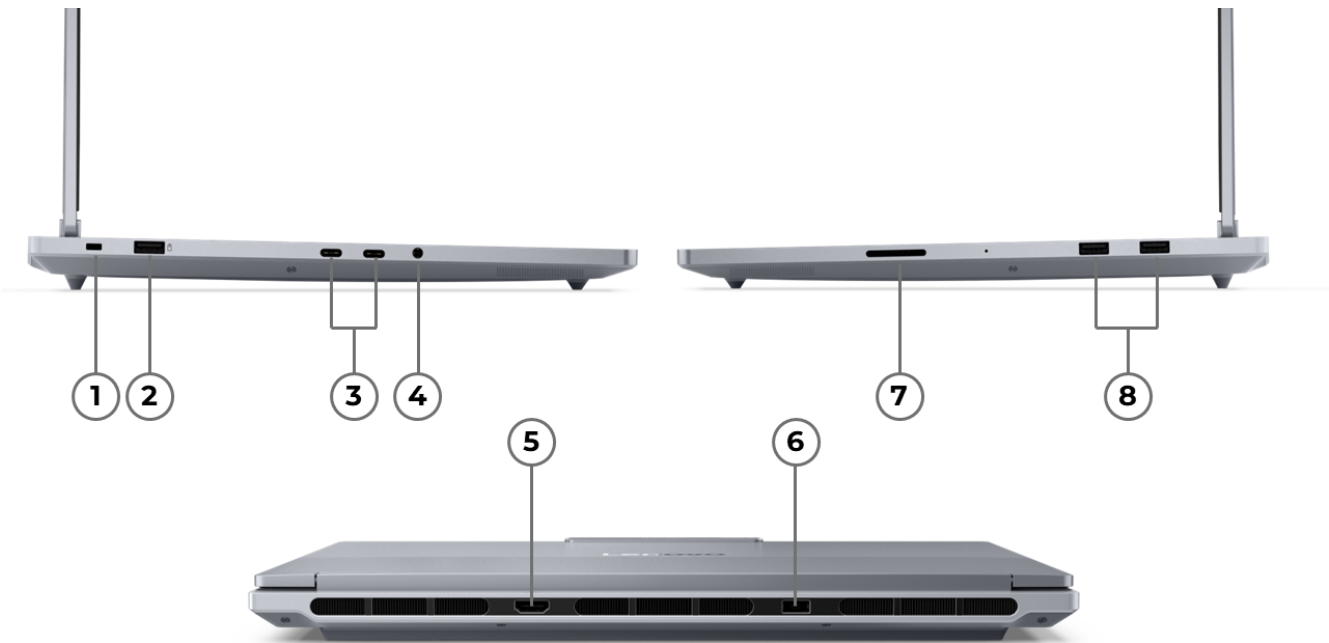


AMD



AMD

OVERVIEW



1. Kensington Nano Security Slot	5. HDMI
2. USB-A (USB 10Gbps), Always On	6. Power connector
3. 2x Thunderbolt 4	7. SD card reader
4. Headphone / microphone combo jack (3.5mm)	8. 2x USB-A (USB 5Gbps)

PERFORMANCE

Processor

Processor Family

Intel® HX Series Core Ultra 5 / 7 / 9 Processor (Series 2)

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
Core Ultra 7 255HX	20 (8 P-core + 12 E-core)	20	P-core 2.4GHz / E-core 1.8GHz	P-core 5.2GHz / E-core 4.5GHz	30MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	Up to 33 TOPS
Core Ultra 9 275HX	24 (8 P-core + 16 E-core)	24	P-core 2.7GHz / E-core 2.1GHz	P-core 5.4GHz / E-core 4.6GHz	36MB Intel® Smart Cache	Intel® Graphics	Intel® AI Boost, up to 13 TOPS	Up to 36 TOPS

AI (Artificial Intelligence)

AI PC Category

AI PC^[1]

NPU***

- (Optional) M.2 2280 discrete NPU card, up to 32 TOPS
- Integrated Intel® AI Boost, up to 13 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the optional Microsoft® Copilot key or using Win + C.

Operating System

Operating System**

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

Graphics

Graphics**

Graphics	Type	Memory	Boost Clock	TGP	AI TOPS (Peak)	Key Features
NVIDIA® GeForce RTX™ 5060 Laptop GPU	Discrete	8GB GDDR7	2497 MHz	115W	572 TOPS	Dynamic Boost 2.0, DirectX® 12 Ultimate
NVIDIA® GeForce RTX™ 5070 Laptop GPU	Discrete	8GB GDDR7	2347 MHz	115W	798 TOPS	Dynamic Boost 2.0, DirectX® 12 Ultimate

Monitor Support

Monitor Support^[1]

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

- HDMI® supports up to 7680x4320@60Hz
- Thunderbolt™ supports up to 7680x4320@60Hz^[2]

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® HM870 chipset

Memory

Max Memory

- Up to 64GB (2x 32GB SODIMM) DDR5-5600^[1]
- Up to 64GB (2x 32GB CSODIMM) DDR5-6400

Memory Slots

Two DDR5 SODIMM / CSODIMM slots, dual-channel capable

Memory Type**

- DDR5-5600 SODIMM
- DDR5-6400 CSODIMM

Notes:

[1] Maximum memory 64GB DDR5-5600 is only to test technical readiness of notebook. Available memory to sell would vary.

Storage

Max Storage Support^{[1][2]}

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each

Storage Slot^[3]

Two M.2 2280 PCIe® 5.0 x4 slots

Storage Type**

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	512GB / 1TB
M.2 2280 SSD	PCIe® NVMe®, PCIe® 5.0 x4 Performance	2TB

Notes:

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

[2] The system supports dual SSD via two M.2 slots, but Lenovo® only offers configurations with a single SSD, reserving the other slot for an optional discrete NPU card, or for user self-expansion.

[3] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.

PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);

PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);

PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

SD card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306-CG codec

Speakers

Stereo speakers, 2W x2 woofers and 2W x2 tweeters, Dolby Atmos®, sound by harman/kardon, Smart Amplifier (AMP)

Microphone

Dual-microphone array with smart noise-cancelling

Camera

FHD 1080p + IR hybrid, with privacy shutter, fixed focus

Battery

Battery

85Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)^[1]

Max Battery Life^[2]
MobileMark® 30@250nits: 5.35 hr

Notes:

[1] Rapid Charge Pro is only effective in hibernates or fully shutting down the computer.

[2] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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^[1]

- 300W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz
- No power adapter

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

- AI Chip: LA3
- Modern Standby

DESIGN

Display

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
16"	2.5K WQXGA (2560x1600)	Non-touch	IPS ^[1]	500nits	Anti-glare	16:10	1200:1	100% DCI-P3	240Hz	89° / 89° / 89° / 89°	Smart sense panel, Advanced Optimus, X-Rite® factory color calibration (average ΔE<1), G-SYNC®, Dolby Vision®, DisplayHDR™ 400, Eyesafe®
16"	3.2K (3200x2000)	Non-touch	IPS ^[2]	500nits	Anti-glare	16:10	1200:1	100% DCI-P3	165Hz	89° / 89° / 89° / 89°	Smart sense panel, Advanced Optimus, X-Rite® factory color calibration (average ΔE<1), G-SYNC®, Dolby Vision®, Eyesafe®

Touchscreen
Non-touch

Screen-to-Body Ratio
93%

Color Calibration
X-Rite® factory color calibration

[1], [2] 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, numeric keypad, key travel 1.5mm, Copilot key

Keyboard Backlight

Smart sense keyboard backlight

Touchpad**

- Buttonless glass surface multi-touch Haptic Touchpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)
- Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)

Mechanical

Dimensions (WxDxH)^[1]

354.6 x 256.2 x 17.9 mm (13.96 x 10.09 x 0.70 inches)

Weight^[2]

Starting at 2.1 kg (4.63 lbs)

Case Color

Luna grey, dual-tone design

Case Material

Aluminium (top), aluminium (bottom)

Surface Treatment

Anodizing sandblasting

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®^[1]

Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4, M.2 card^[2]

WWAN

No support

Ethernet

No onboard Ethernet

Notes:

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

[2] Wi-Fi® 7 operation is subject to the regulation rules in each country.

Ports^[1]

Standard Ports

- 2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 10Gbps / USB 3.2 Gen 2), Always On
- 2x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)

- 1x SD card reader
- 1x Magic Bay (pogo pin connector)
- 1x Power connector

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16p G6 IAX](#)

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)^[1]

Other Security

- Camera privacy shutter
- IR camera for Windows® Hello (facial recognition)

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16p G6 IAX](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

50% recycled aluminum alloy on bottom cover
25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
30% PCC recycled plastic used in speaker enclosure
100% use of paper in cushion, screen sheet, bag, carton handle, and sealing label
FSC certified content in carton box and accessory box

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- RoHS compliant
- TCO Certified, generation 10

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 and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- Eyesafe® Certified 2.0
 - TÜV Rheinland® Low Blue Light (Hardware Solution)
- 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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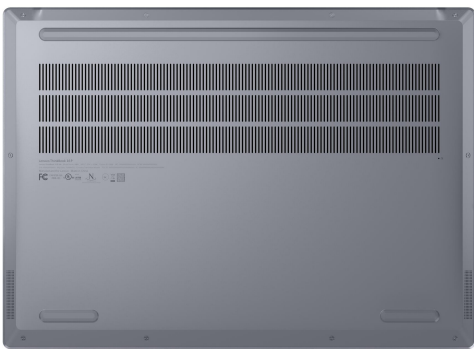
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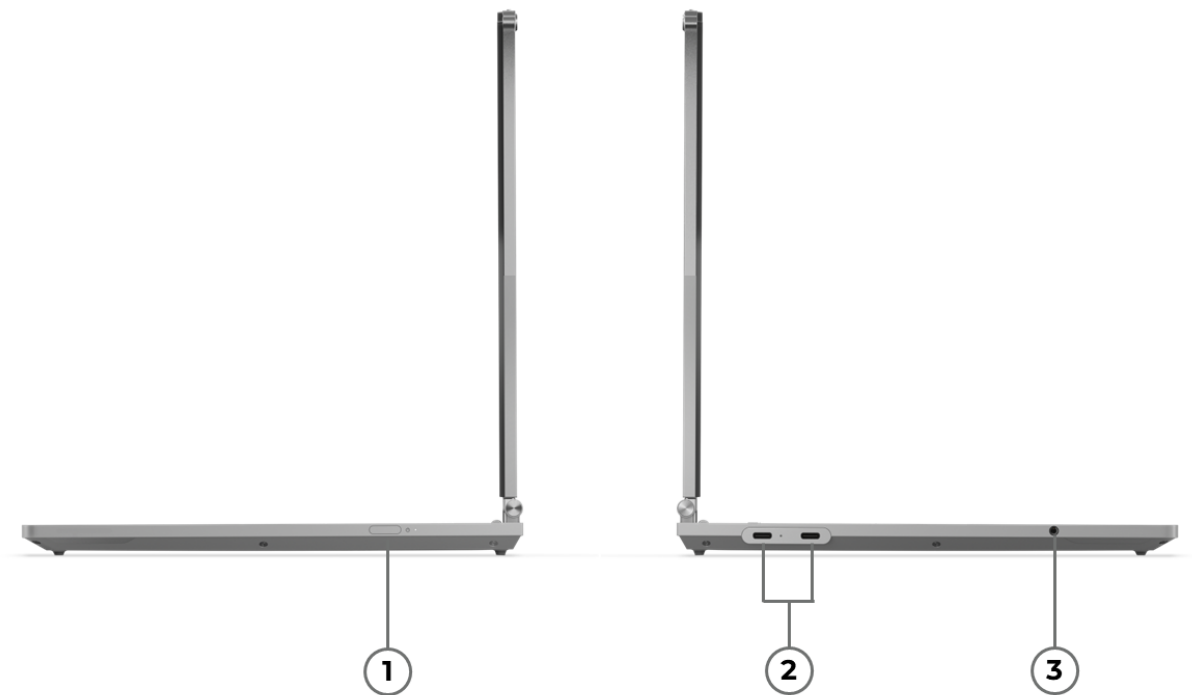


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OVERVIEW



1. Power button (with fingerprint reader)	3. Headphone / microphone combo jack (3.5mm)
2. 2x Thunderbolt 4	

PERFORMANCE

Processor

Processor Family

Intel® V Series Core Ultra 7 Processor (Series 2)

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU	Overall TOPS
Core Ultra 7 258V	8 (4 P-core + 4 LP E-core)	8	P-core 2.2GHz / LP E-core 2.2GHz	P-core 4.8GHz / LP E-core 3.7GHz	12MB Intel® Smart Cache	Intel® Arc™ Graphics 140V, up to 64 TOPS	Intel® AI Boost, up to 47 TOPS	Up to 115 TOPS

AI (Artificial Intelligence)

AI PC Category

Copilot+ PC^[1]

NPU

Integrated Intel® AI Boost, up to 47 TOPS

Notes:

[1] Copilot+ PCs have at least 16GB RAM, 256GB storage, and a NPU that runs 40+ TOPs to run the latest AI tools build-in latest Windows® 11 to accelerate productivity and creativity.

Operating System

Operating System**

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

Graphics

Graphics

Graphics	Type	Memory	TGP	Key Features
Intel® Arc™ Graphics 140V	Integrated	Shared	Share CPU TDP	DirectX® 12.2

Monitor Support

Monitor Support

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

- Thunderbolt™ supports up 7680x4320@60Hz^[1]

Notes:

[1] 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

32GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5x-8533, MoP (Memory on Package) memory

Storage

Max Storage Support^[1]

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

Storage Slot^[2]

One M.2 2242 PCIe® 4.0 x4 slot

Storage Type

Disk Type	Interface	Offering
M.2 2242 SSD	PCIe® NVMe®, PCIe® 4.0 x4	1TB

Notes:

- [1] The storage capacity supported is based on the test results with current Lenovo® storage offerings.
- [2] The actual data transfer rate of the following PCIe® interface also depends on the capabilities of the connected PCIe® device. The listed values represent theoretical maximums.
- PCIe® 3.0 (x2 / x4): 2 GB/s (16 Gbps) / 4 GB/s (32 Gbps);
- PCIe® 4.0 (x2 / x4): 4 GB/s (32 Gbps) / 8 GB/s (64 Gbps);
- PCIe® 5.0 (x2 / x4): 8 GB/s (64 Gbps) / 16 GB/s (128 Gbps).

Removable Storage

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306-CG codec

Speakers

Stereo speakers, 2W x2, Dolby Atmos®, sound by harman/kardon, Smart AMP

Microphone

Dual-microphone array, Elevoc Voice

Camera

5.0MP + IR discrete, with E-shutter, ToF sensor, fixed focus

Sensor

Sensors

- Ambient light sensor (ALS)
- Color sensor
- Gyroscope sensor
- ToF sensor

Battery

Battery

66Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr)^[1]

Max Battery Life^[2]

MobileMark® 30@250nits: 11.7 hr
Local video (1080p) playback@150nits: 14.9 hr

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] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, 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^[1]

- 65W USB-C® nano GaN (2-pin, wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- No power adapter

Notes:

[1] AC adapter offerings depend on the country.

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
Roll in: 14" Roll out: 16.7"	14" (2000x1600) 16.7" (2000x2350)	Non-touch	POLED ^[1]	400nits	Glossy	Roll in: 5:4 Roll out: 8:9	100,000:1	100% DCI-P3	10-120Hz VRR	85° / 85° / 85° / 85°	Rolling up and down display, Dolby Vision®

Touchscreen

Non-touch

Notes:

[1] Flexible Plastic OLED

Input Device

Pen

No support

Keyboard

6-row, spill-resistant, edge-to-edge, multimedia Fn keys, key travel 1.0mm, Copilot key

Keyboard Backlight

Smart keyboard backlight

Touchpad

Buttonless glass surface multi-touch Haptic Touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)^[1]

303.5 x 230.6 x 19.9 mm (11.95 x 9.08 x 0.78 inches)

Weight^[2]

Starting at 1.69 kg (3.72 lbs)

Case Color

Luna grey, dual-tone design

Case Material

Aluminium (top), aluminium (bottom)

Surface Treatment

Aluminium CNC (anodized)

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^[1]

Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4^[2]

WWAN

No support

Ethernet

No onboard Ethernet

Notes:

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

[2] Wi-Fi® 7 operation is subject to the regulation rules in each country.

Ports^[1]

Standard Ports

- 2x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.1 and DisplayPort™ 2.1
- 1x Headphone / microphone combo jack (3.5mm)

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™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® Plus G6 Rollable](#)

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Fingerprint Reader

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

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)

Other Security

- E-shutter
- IR camera for Windows® Hello (facial recognition)

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® Plus G6 Rollable](#).

OPERATING REQUIREMENTS

Operating Environment

Temperature^[1]

- At altitudes up to 2438 m (8,000 ft)
 - Operating: 5°C to 35°C (41°F to 95°F)
 - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
 - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Relative Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 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^[1]

50% recycled aluminum on bottom cover
30% PCC recycled plastic used in the battery pack enclosure
30% PCC recycled plastic used in speaker enclosure
90% PCC recycled plastic used in nano GaN 65W adapter
FSC certified content in carto, accessory box and paper cushion
Bamboo box and paper bag

Notes:

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

CERTIFICATIONS

Green Certifications^[1]

Green Certifications

- ErP Lot 6/26
- RoHS compliant

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>.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

- 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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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 for details. Visit 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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