

OVERVIEW



1. Power button	5. 1x USB-A (USB 10Gbps)
2. Power connector	6. 1x USB-C (USB 10Gbps)
3. 1x HDMI-out 2.1 TMDS	7. 1x USB-C (Thunderbolt 4)
4. 1x USB-A (USB 10Gbps)	8. Headphone / microphone combo jack (3.5mm)

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
Core Ultra 7 256V	8 (4 P-core + 4 LPE-core)	8	P-core 2.2GHz / LPE-core 2.2GHz	P-core 4.8GHz / LPE-core 3.7GHz	12MB	Intel® Arc™ Graphics 140V, up to 64 TOPS	Intel® AI Boost
Core Ultra 7 258V	8 (4 P-core + 4 LPE-core)	8	P-core 2.2GHz / LPE-core 2.2GHz	P-core 4.8GHz / LPE-core 3.7GHz	12MB	Intel® Arc™ Graphics 140V, up to 64 TOPS	Intel® AI Boost

AI (Artificial Intelligence)

AI PC Category

Copilot+ PC^[1]

AI Performance

Up to 115 overall TOPS

NPU

Integrated Intel® AI Boost, up to 47 TOPS

Notes:

[1] The AI features of Copilot+ PC require Windows® 11 to be installed.

Operating System

Operating System**

- Windows® 11 Pro
- Windows® 11 Home
- Windows® 11 Home Single Language

Graphics

Graphics***^[1]

Graphics	Type	Memory	Max Resolution	Connector	Key Features
Intel® Arc™ Graphics 140V	Integrated	Shared	3840x2160@60Hz(HDMI®), 3840x2160@60Hz(USB-C®), 3840x2160@60Hz(Thunderbolt™)	1x HDMI® 2.1 TMDS, 1x USB-C®, 1x Thunderbolt™ 4	DirectX® 12
NVIDIA® GeForce RTX™ 4050	Discrete	6GB GDDR6	3840x2160@60Hz(HDMI®), 3840x2160@60Hz(USB-C®), 3840x2160@60Hz(Thunderbolt™)	1x HDMI® 2.1 TMDS, 1x USB-C®, 1x Thunderbolt™ 4	DirectX® 12

Notes:

[1] The information of integrated graphics are not applicable for the models with processor which has no integrated graphics inside (for the details, please refer to processor section).

Monitor Support

Monitor Support

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

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]

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

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5x-8533, MoP (Memory on Package) memory

Notes:

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

Storage

Storage Support^[1]

One drive, up to 1TB M.2 2280 SSD

Storage Type

Disk Type	Interface
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4

Notes:

[1] The max capacity of each disk type is based on the test results with current Lenovo® storage offerings.

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio

Speakers

Stereo speakers, 5W x2 (woofers), 2W x2 (tweeters), Dolby Atmos®, harman/kardon brand

Microphone

Dual-microphone array

Camera

5.0MP + IR, fixed focus

Power Supply

Power Supply**

Power	Type	Efficiency	Key Features
170W	Adapter	89%	100V - 240V
300W	Adapter	89%	100V - 240V

DESIGN

Display

Display^[1]

Size	Resolution	Type	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle (L/R/U/D)	Key Features
31.5"	UHD (3840x2160)	IPS	495nits	16:9	1000:1	97% DCI-P3	horizontal: +/- 89°, vertical: +/- 89°	Borderless, DisplayHDR™ 600

Touchscreen

Non-touch

Notes:

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

Input Device**Pen**

No support

Keyboard

Ultraslim Wireless Keyboard, Copilot key, grey

Mouse

Ultraslim Wireless Mouse, grey

Mechanical**Form Factor**

AIO (31.5 inches)

Dimensions (WxDxH)^[1]

724.04 x 253.02 x 543.1 mm (28.5 x 9.96 x 21.38 inches)

Packaging Dimensions (WxDxH)

859 x 658 x 341 mm (33.81 x 25.9 x 13.42 inches)

Weight^[2]

Around 8.5 kg (18.74 lbs)

Packaging Weight^{}**

- Discrete graphics models: 15.3 kg (33.73 lbs)
- Integrated graphics models: 14.5 kg (31.97 lbs)

Case Color

Storm grey

Expansion Slots

Two M.2 slots (one for WLAN, one for SSD)

Stand

Monitor stand, Supports -5° to +15° tilt

Others

(Optional) Wireless charger 15W

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****Onboard Ethernet**

No onboard Ethernet

WLAN + Bluetooth®

Wi-Fi® 7, 802.11be 2x2 Wi-Fi® + Bluetooth® 5.4

Ports^[1]**Rear Ports^[2]**

- 1x Thunderbolt™ 4
- 1x USB-C® (USB 10Gbps / 3.2 Gen 2)

- 2x USB-A (USB 10Gbps / USB 3.2 Gen 2)
- 1x HDMI®-out 2.1 TMDS
- 1x headphone / microphone combo jack (3.5mm)
- 1x power connector

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.

[2] For video ports on discrete graphics, please see graphics section.

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

BIOS Security

- Administrator password
- Hard disk password
- Power-on password

SERVICE

Warranty^[1]

Base Warranty**

- 1-year mail-in service
- 1-year courier or carry-in service
- 1-year limited onsite service
- 2-year courier or carry-in service
- 3-year courier or carry-in service

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://support.lenovo.com/warrantylookup/warrantypolicy>.

OPERATING REQUIREMENTS

Operating Environment

Temperature

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage: -20°C (-4°F) to 60°C (140°F)

Relative Humidity

- Operating: 20% to 80%
- Storage: 10% to 90%

Altitude

- Operating: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications^[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Silver Registered
- ErP Lot 3/7
- 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

Other Certifications

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.
- 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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