OVERVIEW



1. Power button	5. USB 3.2 Gen 2
2. Power connector	6. USB-C 3.2 Gen 2
3. 1x HDMI 2.1 TMDS	7. USB4 20Gbps
4. USB 3.2 Gen 2	8. Headphone / microphone combo jack (3.5mm)

PERFORMANCE

Processor

Processor Family

13th Generation Intel® Core™ i9 Processor

Processor[1]

Processor Name	Cores	Threads	Max Frequency	Cache	Memory Support	Processor Graphics
Core i9-13900H	14 (6 P-core + 8 E-core)	20	P-core 5.4GHz / E-core 4.1GHz	24MB Intel® Smart Cache	LPDDR5X-6400	Intel® Iris® Xe Graphics

Notes:

[1] Intel® Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see http://www.intel.com/technology/turboboost/ for more information.

Operating System

Operating System**

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

Graphics

Graphics**

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

Monitor Support

Monitor Support

Supports up to 3 independent displays via native display and 2 external monitor; supports external monitors via USB-C® and 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

- LPDDR5-6000
- LPDDR5-6400

Memory Protection

Non-ECC

Notes:

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

Storage

Max Storage Support[1]

One drive, up to 1TB M.2 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®

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	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle (L/R/U/D)	Key Features
31.5"	UHD (3840x2160)	Non-touch	IPS	495nits	None	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, 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: 15.4 kg (33.95 lbs)
- Integrated graphics models:14.9 kg (32.85 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

WLAN + Bluetooth®[1]

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

Onboard Ethernet

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.

Ports[1]

Rear Ports

- 1x USB-C® 3.2 Gen 2 (support data transfer, DisplayPort™ 1.4, up to 95W)
- 1x HDMI® 2.1 TMDS
- 1x USB4® 20Gbps (support data transfer, and DisplayPort™ 1.4)
- 1x headphone / microphone combo jack (3.5mm)
- 1x power connector
- 2x USB 3.2 Gen 2

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.

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in processor

BIOS Security

- Administrator password
- Hard disk password
- Power-on password
- More BIOS security features, please visit BIOS Simulator[1]

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[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: -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: -15.2 m (-50 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- ErP Lot 3/7
- GREENGUARD®
- 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® Flicker Free
- TÜV Rheinland® Low Blue Light

- 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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