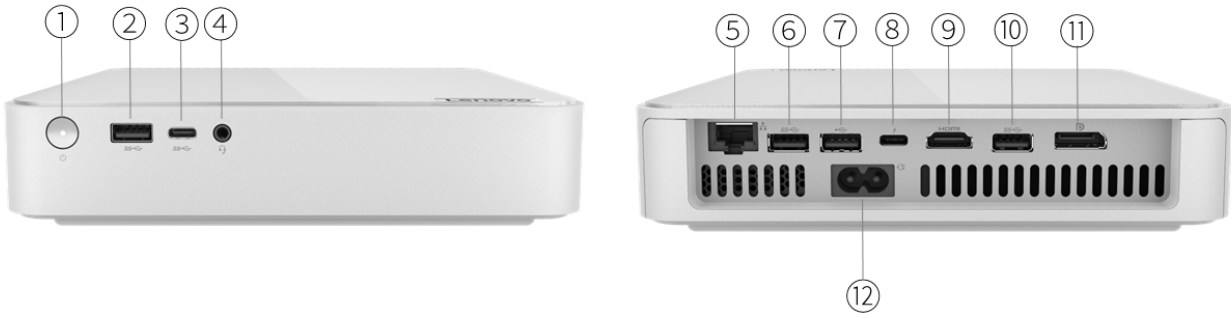


OVERVIEW



1. Power button	7. USB 2.0
2. USB 3.2 Gen 2 (Always On)	8. Thunderbolt 4
3. USB-C 3.2 Gen 2	9. HDMI 2.1 TMDS
4. Headphone / microphone combo jack (3.5mm)	10. USB 3.2 Gen 2
5. Ethernet (RJ-45)	11. DisplayPort 1.4
6. USB 3.2 Gen 2	12. Power connector

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

PERFORMANCE

Processor

Processor Family

13th Generation Intel® Core™ i5 / i7 Processor

Processor**[1]

Processor Name	Cores	Threads	Max Frequency	Cache	Memory Support	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	DDR4-3200	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	DDR4-3200	Intel® Iris® Xe Graphics
Core i7-13620H	10 (6 P-core + 4 E-core)	16	P-core 4.9GHz / E-core 3.6GHz	24MB Intel® Smart Cache	DDR4-3200	Intel® UHD Graphics
Core i7-13700H	14 (6 P-core + 8 E-core)	20	P-core 5.0GHz / E-core 3.7GHz	24MB Intel® Smart Cache	DDR4-3200	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
- No preload operating system

Graphics

Graphics**

Graphics	Type	Memory	Max Resolution	Connector	Key Features
Intel® UHD Graphics	Integrated	Shared	3840x2160@60Hz(HDMI®), 3840x2160@60Hz(DP), 3840x2160@60Hz(Thunderbolt™)	1x HDMI® 2.1 TMDS 1x DP 1.4 1x Thunderbolt™ 4	DirectX® 12.1
Intel® Iris® Xe Graphics[1]	Integrated	Shared	3840x2160@60Hz(HDMI®), 3840x2160@60Hz(DP), 3840x2160@60Hz(Thunderbolt™)	1x HDMI® 2.1 TMDS 1x DP 1.4 1x Thunderbolt™ 4	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 3 independent displays via onboard ports (DP, HDMI®, and Thunderbolt™)

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 32GB DDR4-3200

Memory Slots

Two DDR4 SODIMM slots, dual-channel capable

Memory Type

DDR4-3200

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]

Up to two drives, 2x M.2 SSD

- M.2 SSD up to 1TB each

Storage Type

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

RAID

No support

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, Realtek® ALC256 codec
- 24-bit DAC supports 44.1K/48K/96K sample rate, 2 channel DAC supports 24-bit PCM format
- 16-bit ADC supports 44.1K/48K/96K sample rate, 2 stereo ADC supports 16-bit PCM format

Speakers

No speakers

Power Supply

Power Supply

Power	Type	Efficiency	Key Features
150W	Fixed	92%	100V - 240V

DESIGN

Input Device

Keyboard

No keyboard

Mouse

No mouse

Mechanical

Form Factor

Tiny (1L)

Dimensions (WxDxH)^[1]

191.4 x 195 x 39mm (7.535 x 7.677 x 1.535 inches)

Packaging Dimensions (WxDxH)

315 x 117 x 270 mm (12.4 x 4.61 x 10.63 inches)

Weight^[2]

Around 1.8 kg (3.97 lbs)

Packaging Weight

2.2 kg (4.86 lbs)

Case Color

Cloud grey

Bays

No bays

Expansion Slots

Three M.2 slots (one for WLAN, two for SSD)

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

Onboard Ethernet

2.5GbE, Realtek® RTL8125BGS Gaming Ethernet, 1x RJ-45

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]

Front Ports

- 1x USB-C® 3.2 Gen 2
- 1x USB 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)

Rear Ports

- 1x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer and DP 1.4)
- 1x HDMI® 2.1 TMDS
- 1x DisplayPort™ 1.4
- 1x Ethernet (2.5GbE RJ-45)
- 1x USB 2.0
- 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.

MANAGEABILITY

System Management

System Management

None

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: 10°C (50°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

Relative Humidity

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

Altitude

- Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: -15.2 m (-50 ft) to 10668 m (35,000 ft)

CERTIFICATIONS**Green Certifications^[1]****Green Certifications**

- ENERGY STAR® 8.0
- 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>.

- 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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