

## OVERVIEW



1. Power button	5. 2x USB 3.2 Gen 2
2. Combo audio jack (on bottom)	6. Ethernet (RJ-45)
3. Power connector	7. 2x USB 2.0
4. HDMI-out	8. Optical drive *

Notes:

- Items with \* are only available on selected models

## PERFORMANCE

### Processor

#### Processor Family

12th Gen Intel® U Series Core™ i3 / i5, 12th Gen Intel® P Series Core™ i3 / i5 / i7, or 12th Gen Intel® H Series Core™ i5 Processor

#### Processor\*\*<sup>[1]</sup>

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics
Core™ i3-1215U	6 (2 P-core + 4 E-core)	8	P-core 1.2GHz / E-core 0.9GHz	P-core 4.4GHz / E-core 3.3GHz <sup>[2]</sup>	10MB	Intel® UHD Graphics
Core™ i3-1220P	10 (2 P-core + 8 E-core)	12	P-core 1.5GHz / E-core 1.1GHz	P-core 4.4GHz / E-core 3.3GHz <sup>[3]</sup>	12MB	Intel® UHD Graphics
Core™ i5-1235U	10 (2 P-core + 8 E-core)	12	P-core 1.3GHz / E-core 0.9GHz	P-core 4.4GHz / E-core 3.3GHz <sup>[4]</sup>	12MB	Intel® Iris® Xe Graphics
Core™ i5-1240P	12 (4 P-core + 8 E-core)	16	P-core 1.7GHz / E-core 1.2GHz	P-core 4.4GHz / E-core 3.3GHz <sup>[5]</sup>	12MB	Intel® Iris® Xe Graphics
Core™ i5-12450H	8 (4 P-core + 4 E-core)	12	P-core 2.0GHz / E-core 1.5GHz	P-core 4.4GHz / E-core 3.3GHz <sup>[6]</sup>	12MB	Intel® UHD Graphics
Core™ i7-1260P	12 (4 P-core + 8 E-core)	16	P-core 2.1GHz / E-core 1.5GHz	P-core 4.7GHz / E-core 3.4GHz <sup>[7]</sup>	18MB	Intel® Iris® Xe Graphics

#### Notes:

<sup>[1]</sup> 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.

<sup>[2], [3], [4], [5], [6], [7]</sup> 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
- Windows® 11 DG Windows® 10 Pro 64
- No preload operating system

### Graphics

#### Graphics\*\*

Graphics	Type	Memory	Connector	Max Resolution	Key Features
Intel® UHD Graphics	Integrated	Shared	1x HDMI® 1.4	1920x1080@60Hz	DirectX® 12.1
Intel® Iris® Xe Graphics <sup>[1]</sup>	Integrated	Shared	1x HDMI® 1.4	1920x1080@60Hz	DirectX® 12.1

#### Notes:

<sup>[1]</sup> 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 2 independent displays via native display and 1 external monitor; supports external monitor via HDMI®

### Chipset

#### Chipset

Intel® SoC (System on Chip) platform

## Memory

### Max Memory<sup>[1]</sup>

Up to 16GB DDR4-3200

### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

### Memory Type

DDR4-3200

Notes:

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

## Storage

### Storage Support<sup>[1]</sup>

- Up to two drives, 1x 2.5" HDD + 1x M.2 SSD
  - 2.5" HDD up to 1TB
  - M.2 SSD up to 1TB
- For installing HDD storage, assembly kits are needed. The kits only come with HDD models.

### Storage Type<sup>\*\*\*</sup>

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	5.4K	-
M.2 2280 SSD	PCIe® NVMe®, PCIe® 3.0 x4	-	-
M.2 2280 SSD	PCIe® NVMe®, PCIe® 4.0 x4	-	Opal 2.0

### 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

- DVD burner (DVD±RW), SATA 1.5Gb/s, slim (9.0mm)
- None

### Card Reader

No card reader

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC256 codec

### Speakers

Stereo speakers, 3W x2

### Microphone

- Dual-microphone array
- No microphone

### Camera<sup>\*\*</sup>

- 5.0-megapixel IR camera, fixed focus
- 5.0-megapixel, fixed focus
- No camera

## Power Supply

### Power Supply

Power	Type	Efficiency	Key Features
90W	Adapter	89%	Autosensing

## DESIGN

### Display

#### Display<sup>[1]</sup>

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
27"	FHD (1920x1080)	None	IPS	250nits	Anti-glare	16:9	1000:1	72% NTSC	60Hz	89°/89°/89°/89°	14ms response Time, 16.7 million color depth, borderless design

#### Touchscreen

Non-touch

Notes:

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

### Input Device

#### Keyboard\*\*

- Lenovo® Calliope Keyboard (USB connector), black
- Lenovo® Calliope Wireless Keyboard, black
- No keyboard

#### Mouse\*\*

- Lenovo® Calliope Mouse (USB connector), black
- Lenovo® Calliope Wireless Mouse (2.4GHz via USB receiver), black
- No mouse

### Mechanical

#### Form Factor

AIO (27 inches)

#### Dimensions (WxDxH)<sup>[1]</sup>

474.12 x 207.52 x 613.1 mm (18.67 x 8.17 x 24.14 inches)

#### Packaging Dimensions (WxDxH)

570 x 233 x 763 mm (22.44 x 9.17 x 30.03 inches)

#### Weight<sup>[2]</sup>

Around 8.11 kg (17.88 lbs)

#### Packaging Weight

Around 12.38 kg (27.29 lbs)

#### Case Color

Raven black

#### Bays

- 1x 2.5" disk bay
- For installing HDD storage, assembly kits are needed. The kits only come with HDD models.

#### Expansion Slots

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

#### EOU

No support

#### Stand

Monitor stand, supports -5° to +25° tilt, left & right 45° swivel

#### Mounting

None

## 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

Gigabit Ethernet, Realtek® RTL8111H, 1x RJ-45

#### WLAN + Bluetooth®\*\*

- Realtek® RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth® 5.0, M.2 card
- Intel® Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth® 5.0, Intel® vPro® technology support, M.2 card
- Realtek® Wi-Fi® 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card<sup>[1]</sup>
- Intel® Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 Card<sup>[2]</sup>

## Notes:

[1] Bluetooth® 5.3 requires Windows® 11.

[2] Bluetooth® 5.2 requires Windows® 11.

### Ports<sup>[1]</sup>

#### Rear Ports

- 2x USB 2.0
- 2x USB 3.2 Gen 2
- 1x HDMI®-out
- 1x Ethernet (RJ-45)
- 1x power connector

#### Bottom Ports

1x headphone / microphone combo jack (3.5mm)

#### Left Ports

None

#### Optional Left Ports

None

#### Right Ports

None

#### Optional Right Ports

None

## 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.

## SECURITY & PRIVACY

### Security

#### Security Chip

Firmware TPM 2.0 integrated in SoC

## BIOS Security

- Administrator password
- Power-on password
- Hard disk password
- Cover presence switch
- Intel® BIOS guard

## SERVICE

### Warranty<sup>[1]</sup>

#### Base Warranty\*\*

- 1-year courier or carry-in service
- 1-year limited onsite 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://pcsupport.lenovo.com/warranty>.

## ENVIRONMENTAL

### 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<sup>[1]</sup>

#### Green Certifications

- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Silver Registered<sup>[2]</sup>
- ErP Lot 3 and Lot 7
- RoHS / WEEE / REACH

#### Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

[2] EPEAT™ is registered where applicable, please see [epeat.net](http://epeat.net) for registration status by country.

### Other Certifications

#### Other Certifications

- TÜV Rheinland® Flicker Free
- TÜV Rheinland® Low Blue Light
- TÜV Rheinland® Low Noise

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

- Feature with \*\*\* means that one or more offerings listed under the feature could be configured on selected models.
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