

# **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**

Intel® Celeron®, Intel Pentium®, 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\*\*[1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Celeron 7305	5 (1 P-core + 4 E-core)	6	P-core 1.1GHz / E- core 0.9GHz	-	8MB	DDR4-3200	Intel UHD Graphics
Pentium Gold 8505	5 (1 P-core + 4 E-core)	6	P-core 1.2GHz / E- core 0.9GHz	P-core 4.4GHz / E- core 3.3GHz <sup>[2]</sup>	8MB	DDR4-3200	Intel UHD 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>[3]</sup>	10MB	DDR4-3200	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>[4]</sup>	12MB	DDR4-3200	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>[5]</sup>	12MB	DDR4-3200	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>[6]</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>[7]</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>[8]</sup>	18MB	-	Intel Iris Xe Graphics

#### 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.

[2], [3], [4], [5], [6], [7], [8] 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\*\*

- Ubuntu Linux
- Windows® 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- No operating system

## **Graphics**

## Graphics\*\*

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

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[1]

- 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\*\*\*

Disk Type	Interface	RPM
2.5" SATA HDD	SATA 6Gb/s	5.4K
M.2 2242 SSD	PCIe® NVMe®, PCIe 3.0 x4	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-
M.2 2280 SSD	PCIe NVMe, PCIe 4.0 x4	-
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**

- 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, Audio by HARMAN

### Microphone

- Dual-microphone array
- No microphone

### Camera\*

• 5.0-megapixel IR camera, 0° Pre-angle pull up camera, LED indicator



- HD 720p 0° Pre-angle pull up camera, LED indicator
- No camera

# **Power Supply**

## **Power Supply**

Power	Туре	Efficiency	Key Features
90W	Adapter	89%	Autosensing

## **DESIGN**

## **Display**

## Display[1]

Size	Resolution	Touch	Туре	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
23.8"	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 (23.8 inches)

## Dimensions (WxDxH)[1]

Models	Dimensions
Models with monitor stand	541 x 207.5 x 433.8 mm (21.3 x 8.17 x 17.1 inches)
Models with liftable monitor stand	541 x 220 x 380.5-480.5 mm (21.3 x 8.66 x 14.98-18.92 inches)

## Packaging Dimensions (WxDxH)

662 x 231 x 551 mm (26.06 x 9.09 x 21.69 inches)

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

Models	Weight
Models with liftable monitor stand	Around 6.6 kg (14.6 lbs)
Models with monitor stand	Around 6.7 kg (14.8 lbs)

## **Packaging Weight**

Around 10.74 kg (23.08 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
- Liftable monitor stand, supports -5° to +16° tilt, left & right 45° swivel, up to 100mm lift

#### 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 5.1, M.2 card<sup>[1]</sup>
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card[2]

#### Notes:

[1], [2] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

#### 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.

### **Monitor Cable**

#### **Monitor Cable**

No monitor cable

## **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 <a href="https://smartfind.lenovo.com/">https://smartfind.lenovo.com/</a>. To learn more details of warranty policy, please access <a href="https://pcsupport.lenovo.com/warranty">https://pcsupport.lenovo.com/warranty</a>.

## **ENVIRONMENTAL**

## **Operating Environment**

### **Temperature**

Operating: 5°C (41°F) to 35°C (95°F)

Storage: -20°C (-4°F) to 60°C (140°F)

## Humidity

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

#### Altitudo

• 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>11</sup>

### **Green Certifications**

## ThinkCentre neo 30a 24



- (Optional) ENERGY STAR® 8.0
- (Optional) EPEAT™ Silver Registered[2]
- 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 https://www.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.
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