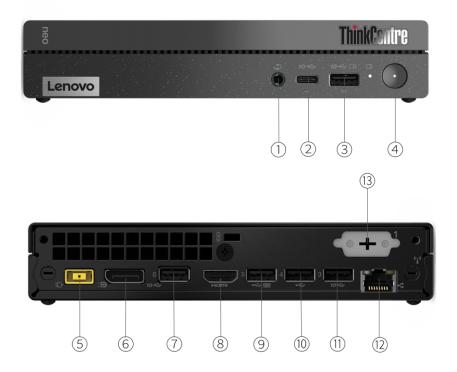


# **OVERVIEW**



1. Headphone / microphone combo jack (3.5mm)	8. HDMI 2.1 TMDS
2. USB-C 3.2 Gen 2 (support data transfer and 5V@0.9A charging)	9. USB 2.0
3. USB 3.2 Gen 2 (Always On and 5V@2.1A charging)	10. USB 2.0
4. Power button	11. USB 3.2 Gen 2
5. Power-in	12. Ethernet (RJ-45)
6. DisplayPort 1.4	13. Punch out port *
7. USB 3.2 Gen 2	

### Notes

• Items with \* are only available on selected models



## **PERFORMANCE**

### **Processor**

### **Processor Family**

Intel® Celeron® or 12th Generation Intel Core™ i3 Processor

### Processor\*\*

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Celeron 7305 <sup>[1]</sup>	5 (1 P-core + 4 E-core)	6	P-core 1.1GHz / E- core 0.9GHz	P-core 1.1GHz / E- core 0.9GHz	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	10MB	DDR4-3200	Intel UHD Graphics

#### Notes:

[1], [2] 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\*\*

- IGEL Linux[1]
- LeTOS™ V2 (Lenovo® Terminal Operating System, Linux-based)
- Windows® 10 IoT Enterprise (Thin Client)
- No operating system

### Notes:

[1] The pre-installed IGEL OS version is 11.08.240

The device is preload with a free evaluation license. The evaluation license will be valid for a period of 90 days.

## **Graphics**

## **Graphics**

Graphics	Туре	Memory	Connector	Max Resolution	Key Features
Intel UHD Graphics	Integrated	Shared	1, ,	4096x2160@60Hz(DP), 4096x2160@60Hz(HDMI), 1920x1200@60Hz(VGA)	DirectX® 12.1

## **Monitor Support**

### **Monitor Support**

Supports up to 3 independent displays via (onboard DP, onboard HDMI, punch out port 1 [VGA / DP])

## Chipset

### Chipset

Intel SoC (System on Chip) platform

### **Memory**

### Max Memory[1]

- Models with Intel Core processor: Up to 32GB DDR4-3200
- Models with Intel Celeron processor: Up to 16GB DDR4-3200

## **Memory Slots**

- · Models with Intel Core processor: Two DDR4 SO-DIMM slots, dual-channel capable
- Models with Intel Celeron processor: One 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. The system may support more memory as the technology develops.

## **Storage**

### Storage Support[1]

One drive, 256GB M.2 2280 SSD

### **Storage Type**

Disk Type	Interface	Security
M.2 2280 SSD	PCIe® NVMe®, PCIe 4.0 x4	Opal 2.0

### Notes:

[1] The max capacity of each disk type is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

## Removable Storage

### **Optical**

None

### **Card Reader**

No card reader

### Multi-Media

### **Audio Chip**

High Definition (HD) Audio, Realtek® ALC256 codec

### **Speakers**

Single speaker, 2W x1

## Microphone

No microphone

## **Power Supply**

### Power Supply\*\*[1]

Power	Туре	Efficiency	Key Features
65W	Adapter	89%	Autosensing
90W	Adapter	89%	Autosensing
No power supply			

### Notes:

[1] When work with TIO monitor, an appropriate power adapter is needed. Customer may need to:

- Order a Tiny for TIO MT (12LK, 12LK, 12M3, 12M4) models
- Or order an additional 90W power adapter. If original power adapter is less than 90W.

### DESIGN

## **Input Device**

## Keyboard

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

### Mouse

- · Lenovo Calliope Mouse (USB connector), black
- No mouse

### Mechanical

### **Form Factor**



Tiny (1L)

Dimensions (WxDxH)[1]

179 x 182.9 x 36.5 mm (7.05 x 7.2 x 1.44 inches)

Packaging Dimensions (WxDxH)

140 x 262 x 500 mm (5.51 x 10.31 x 19.69 inches)

Weight<sup>[2]</sup>

Around 1.11 kg (2.45 lbs)

**Packaging Weight** 

Around 5.18 kg (11.42 lbs)

**Case Color** 

Black

Bays

No bays

**Expansion Slots** 

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

**EOU** 

- No support
- (Optional) Toolless cover (toolless chassis screw required), stand, optional 2.5" HDD bracket assembly / removal

#### Stand

- Vertical stand
- No stand

### Mounting

- · Supports VESA mount 100mm
- None

### **Others**

(Optional) Power adapter cage

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 RTL8111K-CG, 1x RJ-45

### WLAN + Bluetooth®\*\*

- Realtek Wi-Fi® 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card[1]
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card<sup>[2]</sup>
- No WLAN and Bluetooth

Notes:

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

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

### **Front Ports**

- 1x USB 3.2 Gen 2 (Always On and 5V@2.1A charging)
- 1x USB-C® 3.2 Gen 2 (support data transfer and 5V@0.9A charging)
- 1x headphone / microphone combo jack (3.5mm)

### **Optional Front Ports**

None



#### **Rear Ports**

- 1x HDMI 2.1 TMDS
- 1x DisplayPort<sup>™</sup> 1.4
- 2x USB 2.0
- 2x USB 3.2 Gen 2
- 1x Ethernet (RJ-45)

### Optional Rear Ports\*\*[2]

- 1x VGA (Punch out port)
- 1x DisplayPort 1.4(Punch out port)
- 1x Serial (Punch out port)

### 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] Punch out ports only available on i3 models.

### **Monitor Cable**

### **Monitor Cable**

No monitor cable

## **SECURITY & PRIVACY**

### Security

## **Security Chip**

Firmware TPM 2.0 integrated in SoC

### **Physical Locks**

Kensington® Security Slot™, 3 x 7 mm

### **Chassis Intrusion Switch**

Chassis intrusion switch

### **BIOS Security**

- Administrator password
- Supervisor password
- · Hard disk password
- · Boot sequence control
- Cover presence switch
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- · Intel BIOS guard

## **MANAGEABILITY**

## **System Management**

### **System Management**

None

### **SERVICE**

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

## Base Warranty\*\*

• 1-year courier or carry-in service

## ThinkCentre neo 50q Gen 4 Thin Client



- 1-year limited onsite service
- · No base warranty

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

### 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 10668 m (35,000 ft)

## **CERTIFICATIONS**

### 

### **Green Certifications**

- (Optional) ENERGY STAR® 8.0
- ErP Lot 3 and Lot 7
- TCO Certified 9.0
- · RoHS compliant

### Notes:

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

### Other Certifications

### **Other Certifications**

(Optional) TÜV Rheinland® Ultra Low Noise

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