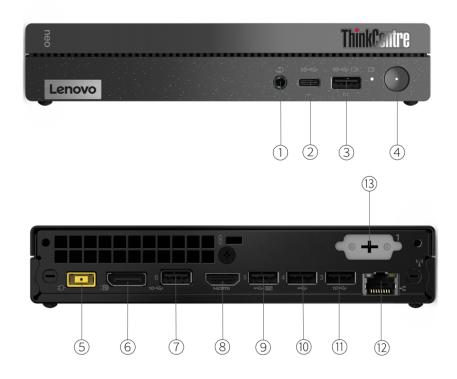


OVERVIEW



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	Processor Graphics
Celeron® 7305	5 (1 P-core + 4 E-core)	6	P-core 1.1GHz / E-core 0.9GHz	-	IXMR	Intel® UHD Graphics
	6 (2 P-core + 4 E-core)		P-core 1.2GHz / E-core 0.9GHz	P-core 4.4GHz / E-core 3.3GHz ^[1]	10MB	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**

- Windows® 10 IoT Enterprise LTSC 2021
- IGEL Linux^[1]
- LeTOS[™] V2 (Lenovo® Terminal Operating System, Linux-based)^[2]
- No preload 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.

[2] LeTOS™ V2 (Lenovo® Terminal Operating System, Linux-based) is EOL

Graphics

Graphics

Graphics	Type	Memory	Max Resolution	Connector	Key Features
Intel® UHD Graphics	Integrated	Shared	4096x2160@60Hz(HDMI®),	1x DP 1.4, 1x HDMI® 2.1 TMDS, 1x optional punch out port (1x VGA or 1x DP 1.4)	DirectX® 12.1

Monitor Support

Monitor Support

Supports up to 3 independent displays via (onboard DP, onboard HDMI®, optional punch out port)

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory[1]

- Models with Intel® Celeron® processor: Up to 16GB DDR4-3200
- Models with Intel® Core™ processor: Up to 32GB 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 slot, 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]

One drive, 256GB M.2 2280 SSD

Storage Type

Disk Type	Interface	Security
M.2 2280 SSD	PCle® NVMe®, PCle® 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.

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)[2]

494 x 250 x 130 mm (19.45 x 9.84 x 5.12 inches)

Weight[3]

Around 1.11 kg (2.45 lbs)

Packaging Weight^[4]

Around 3.2 kg (7.05 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

Cooling System (Fan & Cooler)

- 1x system fan
- · No System Fan

Others

(Optional) Power adapter cage

Notes:

- [1] The system dimensions may vary depending on configurations.
- [2] The new package takes effect from November 2023. The old package is:

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

[3] 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.

[4] The new package takes effect from November 2023. The old package is:

Around 5.18 kg (11.42 lbs)

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[2]
- 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^[1]

Front Ports

ThinkCentre neo 50q Gen 4 Thin Client



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

Optional Front Ports

None

Rear Ports

- 2x USB 2.0
- 2x USB 3.2 Gen 2
- 1x HDMI® 2.1 TMDS
- 1x DisplayPort[™] 1.4
- 1x Ethernet (RJ-45)

Optional Rear Ports[2]

Punch out port (one of VGA / DisplayPort™ 1.4 / serial)

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.

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[1]

BIOS Security

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

Notes:

[1] Chassis intrusion switch is hardware ready function and needs to be special bid or manually enabled in BIOS.

MANAGEABILITY

System Management

System Management

None

SERVICE



Warranty^[1]

Base Warranty**

- 1-year courier or carry-in service
- · 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 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: 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 Certifications¹¹

Green Certifications

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

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

(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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