

# UTTERLY POWERFUL. EXTREMELY COMPACT.



Breeze through the most demanding of tasks with the ultra-slim ThinkCentre M90n-1 Nano IoT that is powered by the latest generation Intel® mobile processors and high-speed DDR4 memory. In the realm of IoT-ready platform, the M90n-1 Nano is a game changer. It supports the wireless expandability of Wi-Fi/BT, LoPWAN, WWAN connection, bridging the IoT sensors big data to the Cloud server. In addition, with scalable of IOBOX design, Nano IoT offers more physical IO connectivity as the best solution on edge computing device.

Featuring the innovative fan-less design, the M90n-1 Nano IoT guarantees dissipated heat more efficiently, offering a stable performance platform without interruptions in rigid environments.

**ThinkCentre** M90N-1 Nano IoT



Lenovo



## ThinkCentre M90n-1 Nano IoT



**Boosts Productivity:** powerful Intel® processors, superfast DDR4 memory, and PCIe SSD storage make everyday tasks faster and smoother. The M90n-1 Nano IoT also supports Modern Standby, a feature that allows you to receive emails, VoIP calls, and even continue to play music while on standby mode, much like a smartphone.



**Unmatched Reliability:** the M90n-1 Nano IoT is MIL-SPEC tested—it can endure extreme temperatures, making it more reliable and productive in the longer run.



**Compact Design:** with an ultra-small form factor (0.55L), the M90n-1 Nano IoT helps you organize your workspace better by freeing up valuable space. Easy to mount, this device can be tucked behind a monitor, placed under the desk, or can be mounted on the wall—place it where you like it.



**Convenient Connectivity:** connect up to two independent displays at once with the nano to multitask with ease. Modern ports, including 4 USB 3.1 GEN2 and 1 DP port cater to specific business needs, allowing you to do more with less.

## ITDM Benefits

### Reliability and Stability

MIL-SPEC tested for durability, this nano can withstand unanticipated temperature shocks. Fan-less design ensures efficient heat dissipation for improved performance.

### Security

Security solutions like HW TPM 2.0 chip uses RSA encryption to protect user information whereas the Kensington™ lock slot offers physical security against device theft.

### Manageability

An array of Nano's accessories allows it to be securely mounted on a wall, under the desk or behind a monitor. With a full-function Type-C port, the M90n-1 Nano IoT can be powered through a USB Type-C monitor via a single cable, reducing dependency on external connectors and dongles.



# ThinkCentre M90n-1 Nano IoT

## PERFORMANCE

### Processor

8<sup>th</sup> Generation Intel® Core™ i3/Celeron® Processors

### Operating System

Windows 10 Pro (64 bit)  
Windows 10 Home (64 bit)  
Windows 10 IoT LTSC (Spb)

### Memory

Up to 4GB DDR4

### Storage

Up to 512GB M.2 PCIe SSD

### PSU

65W 88% Adaptor

## CONNECTIVITY

### Front Input/Output Ports

1 x Power-on Button  
2 x RS232  
1 x USB Type-C (USB 3.1 Gen2)  
2 x USB 3.1 Gen2  
1 x audio combo

### Rear Input/Output Ports

1 x DisplayPort 1.2  
1 x USB 3.1 Gen2 Type-C (Charging, Display)  
1 x USB 3.1 Gen2 (i3 SKU) / USB 2.0 (Celeron SKU)  
1 x RJ45 LAN (i3 SKU with the 2nd LAN)  
1 x DC-in

### Expansion Slot

2 x M.2 PCIe SSD  
2 x M.2 for WiFi/Bluetooth  
1 x M.2 for 4G/LTE Reserved  
1 x LoRA Reserved (via USB I/F)

## External Mechanical Peripherals

Monitor Clamp  
VESA Wall Mount  
DIN Rail Bracket  
Nano IoT I/O BOX  
External docks via USB Type-C

## DESIGN

### Dimensions

179 x 88 x 34.5mm  
7.04 x 3.46 x 1.35 inches

### Weight

750g/1.65lbs.

## SECURITY

HW TPM 2.0  
Kensington™ lock slot

## MANAGEABILITY

### Smart Power On

Yes

### Multi-Monitor

Yes, 2 independent displays

### MIL-810G SPEC

Yes

### Modern Standby

Yes

## CERTIFICATIONS

Energy Star  
EPEAT  
TUV Low Noise  
RoHS  
Ubuntu® Certified\*  
Redhat® Certified\*  
Azure IoT Certified

## RECOMMENDED SERVICES

### Premier Support

Bypass phone menus and scripted troubleshooting to access advanced-level technicians with the expertise needed to quickly diagnose and solve problems.<sup>1,2</sup>

### Warranty Upgrades

Onsite Service maximizes PC uptime and productivity by providing convenient, fast repair service at your place. In addition, with Tech Install CRU service the installation of all internal Customer Replaceable Unit (CRU) parts will be done on your behalf by a trained technician.<sup>1</sup>

### Warranty Extensions

This fixed-term, fixed-cost service helps you accurately budget for PC expenses, protect your valuable investment, and lower your cost of ownership over time.<sup>1</sup>

### Keep Your Drive

Retain your drive if it should happen to fail, giving you the peace of mind of knowing that your valuable data is secure.<sup>1, 2</sup>

<sup>1</sup> Up to 5 years total duration  
<sup>2</sup> May not be available in all regions



\*Powered by monitor through a single cable, this desktop lets you enjoy a minimalistic workspace.

Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: - 5 Gbit/s for USB 3.1 Gen1; 10 Gbit/s for USB 3.1 Gen2 & 20 Gbit/s for USB 3.2.

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