ThinkCentre M90n Nano IoT

Breeze through the most demanding tasks with the ultra-slim ThinkCentre M90n Nano IoT, powered by the latest-generation Intel® mobile processors and high-speed DDR4 memory.

When it comes to an IoT-ready platform, the M90n Nano IoT is a game-changer. It supports WiFi, Bluetooth®, and 4G/LTE WWAN wireless connections to efficiently transport your IoT data to the cloud or your data center. With a scalable IOBOX for additional connectivity, the M90n Nano IoT delivers expandability features optimized for industrial environments that operate a wide variety of devices.

With an innovative fanless design that guarantees efficient heat dissipation and with MIL-STD-tested device reliability, the M90n Nano IoT offers stable performance for uninterrupted productivity, even in harsh environments.
ThinkCentre M90n Nano IoT

**BOOSTS PRODUCTIVITY**
Powerful Intel® processors, superfast DDR4 memory, and PCIe SSD storage make everyday tasks faster and smoother now while also futureproofing against your edge computing needs.

**UNMATCHED RELIABILITY**
The M90n Nano IoT is MIL-SPEC tested for its ability to withstand extreme temperatures and harsh conditions. That means it stays reliable and keeps you productive over the long haul.

**COMPACT DESIGN**
With an ultra-small form factor (0.55L), the M90n Nano IoT packs more computing power into a smaller footprint. Easy to mount, it can be tucked behind a monitor, placed under the desk, or mounted on the wall—wherever you like it.

**CONVENIENT CONNECTIVITY**
The M90n Nano IoT features four USB 3.1 Gen 2 ports and one display port, while an optional IOBOX with configurable serial interfaces, two POE ports, and DI/DO connectors provides even greater connectivity for manufacturing scenarios. The M90n Nano IoT also serves as a bridge, communicating with both LTE and dual LAN devices.

**IT benefits**

**RELIABILITY AND STABILITY**
This Nano is MIL-SPEC tested for durability, including unanticipated temperature shocks. Fanless design ensures efficient heat dissipation for improved performance.

**SECURITY**
The TPM 2.0 hardware cryptoprocessor chip uses RSA encryption to protect user information, while the Kensington™ lock slot offers physical security against device theft.

**FLEXIBILITY**
An array of accessories allows this Nano to be securely mounted on a wall, under a desk, or behind a monitor using VESA mounts or DIN rails. The M90n Nano IoT is also Tiny-in-One compatible via Cube.

**MANAGEABILITY**
Built for evolving IoT environments, the M90n IoT has been certified for Windows 10 IoT Enterprise, Microsoft® Azure IoT Edge, RedHat®, and Ubuntu®, making analyzing and reporting of devices in the network effortless.

**USE CASES FOR M90N NANO IOT**

**smart retail**
Retailers can rely on M90n Nano IoT to power signage and capture data from multiple sources simultaneously, including sensors, traffic counters, and thermostats.

**smart manufacturing**
The M90n Nano IoT helps drive manufacturing and production automation, with faster data processing from operations to IT.

**smart healthcare**
M90n Nano IoT can replace thin client devices in healthcare settings, taking up even less space while offering full connectivity and computing capabilities.
**ThinkCentre M90n Nano IoT**

**performance**

**PROCESSOR**
- Intel® Core™ Celeron® 4205U Processor
- Intel® Core™ i3-8145U/8145UE (10TGG) Processor
- AMD® Ryzen Pro Dali FP5 Processor

**OPERATING SYSTEM**
- Windows 10 Pro (64 bit)
- Windows 10 Home (64 bit)
- Windows 10 IoT LTSC

**MEMORY**
- Up to 8GB DDR4

**STORAGE**
- Up to 512GB M.2 PCIe SSD

**expansion slot**
- 1 x DC-in (AMD and Celeron only 1 x RJ45)
- 2 x RJ45 LAN
- 1 x USB 3.1 Gen2 Type-C (power-in, display)
- 1 x DisplayPort (i3 IOTG 1x HDMI)

**rear input/output ports**
- 1 x audio combo
- 1 x DisplayPort (i3 IOTG 1x HDMI)
- 1 x USB 3.1 Gen2 Type-C (power-in, display)
- 1 x USB 3.1 Gen2 (i3 SKL) / USB 2.0 (Celeron SKU)
- 2 x RJ45 LAN (AMD and Celeron only 1 x RJ45)
- 1 x DC-in

**front input/output ports**
- 1 x USB 3.1 Type-C (power-in, display)
- 1 x USB 3.1 Gen2 Type-C (power-in, display)
- 1 x USB 3.1 Gen2 (i3 SKL) / USB 2.0 (Celeron SKU)
- 2 x RJ45 LAN
- 1 x USB 3.1 Gen1 (60 Gbit/s for USB 3.1 Gen1; 10 Gbit/s for USB 3.1 Gen2 & 20 Gbit/s for USB 3.2)

**connections**

**front & rear connectivity**
- Power sensors, and DI/DO connectors, making this a valuable, yet rugged addition to your edge computing ecosystem.

**front & rear connectivity**
- This accessory enables Nano IoT to connect to other VESA-compatible equipment. This versatile device can be used separately or combined with other options for secure mounting functionality.

**optional accessories**

**THINKCENTRE NANO IOBOX**

This accessory enables Nano IoT to connect with even more types of sensors and devices. The IOBOX features DC power for industrial settings, configurable serial interfaces, two POE ports to power sensors, and DI/DO connectors, making this a valuable, yet rugged addition to your edge computing ecosystem.

**THINKCENTRE NANO DIN RAIL MOUNT**

This compact and ruggedly designed mount securely affixes the Nano IoT to a rack housing cabinet or frame with other DIN rail equipment for a clutter-free workspace.

**THINKCENTRE NANO MONITOR CLAMP**

Use this clamp to install your Nano IoT unit to a monitor to further save space.

**THINKCENTRE NANO IO MODULE BRACKET**

The Nano IoT module bracket offers utmost mounting flexibility by allowing you to attach the Nano IoT at the back of the display to form your own modular PC. This secure mounting also enables easy upgrades of the display or PC as your business needs change.