SMALL MACHINE
WITH HUGE POTENTIAL

Incredible flexibility for evolving business requirements and packed with more than enough power to get the job done.
EQUIP YOUR BUSINESS WITH NEW-GEN TECHNOLOGY

Businesses today need more than just powerful processing in their computing devices. Staying productive and competitive requires PCs with:

• Ultra-Small Form Factor (USFF) options for deployment flexibility in small office spaces
• Ongoing reliability, durability, and energy efficiency to keep users on task and to lower TCO
• Comprehensive security to combat the latest cyber risks

Lenovo’s comprehensive portfolio of new-gen devices satisfies businesses’ need for continuous uptime and powerful performance. All in a smaller footprint that conserves space, energy, and running costs.

With this explosion of growth, businesses are forced to explore new technologies that match their requirements, optimize productivity, and deliver maximum value on every investment.

Lenovo’s modern technology is designed to equip businesses to meet their productivity requirements, both today and in the future.

WHY THINKCENTRE NANO

We’ve made the ThinkCentre Nano an incredibly responsive, fast, and efficient device that’s smaller than any other commercial PC out there. It comes with robust security features to safeguard critical business data. With built-in reliability your organization can count on, the Nano gives you the flexibility to easily deploy it in a variety of diverse work environments. What’s more, the Nano comes business ready, straight out of the box, making it easy to integrate with your existing systems.

POWER-PACKED PERFORMANCE
Breeze through intensive business tasks with a powerful Intel® powered core

SPACE-SAVING DESIGN
Maximum mounting flexibility with Tiny-in-One ecosystem, VESA mount, and DIN rail brackets

IMPRESSION ADAPTABLE
Full-stack physical I/O ports including USB Type-C to connect to peripheral devices

UNMATCHED DURABILITY
MIL-SPEC tested for longevity, so endurance is not an issue

RELIABLE SECURITY
Keep data safe around the clock with ThinkShield’s integrated security features
MEET THE NANO

THINKCENTRE M90n NANO

THINKCENTRE M90n NANO IoT

Powered by Intel®.
THE THINKCENTRE NANO FAMILY

Available in two models, the M90n Nano and Nano IoT are energy-efficient performance machines. Both provide a complete package of functions for use in almost any business or industrial scenario.

THINKCENTRE M90n NANO

COMPACT PRODUCTIVITY POWERHOUSE

The ThinkCentre M90n Nano lets users maximize productivity at work with up to 8th Generation Intel® Core™ vPro™ 17 Processors and SSD storage. This mini desktop can easily handle heavy files and allows users to seamlessly multitask using its 16GB DDR4 memory. Taking up an unbelievably small amount of space, the Nano can fit just about anywhere.

DIMINUTIVE DESIGN

At just 0.35L, it is significantly smaller than Tiny and occupies minimal space

ENHANCED CONNECTIVITY

Equipped with 4 USB 3.1 ports, including 2 USB Type-C ports, a DisplayPort, and a LAN port

INTELLIGENT CONSUMPTION

Requires 65W of power to operate, powered off a compatible monitor, and consumes 30% less power than a comparable desktop PC

ENDURING BUILD

MIL-SPEC tested for office wear and tear, radiation, drops, shocks, extreme temperature, and pressure

THINKCENTRE M90n NANO IoT

PERFORMANCE DESIGNED TO MAXIMIZE SMART TECHNOLOGY

Responsive and reliable in any business environment, the ThinkCentre M90n Nano IoT is what the commercial desktop has inevitably evolved into. Built with a fan-less design, it not only meets varied operating temperature requirements, but is also efficient and cost-effective. The M90n Nano IoT can be used as a Thin Client, IoT gateway, or a vertical solution, depending on business and user needs.

IoT EDGE GATEWAY

End-to-end communication between the devices and support for real-time analytics

FLEXIBLE DEPLOYMENT

IOBOX capability that provides full-stack physical I/O connectivity to peripheral devices

FORTLIKE SECURITY

dTPM 2.0 chip with RSA encryption, Smart USB Protection, Chassis intrusion, and Kensington™ lock slot protect the Nano IoT from theft

UNMATCHED RELIABILITY

Fan-less design ensures efficient heat dissipation for improved performance

Businesses need flexible computing devices that can achieve efficient results with the ability to capture and process data effectively.
THE RIGHT ULTRA-SMALL FORM FACTOR FOR YOUR INDUSTRY

Does your business need a versatile performer like the Tiny or a smart device like the Nano?

ThinkCentre Ultra-Small Form Factor devices are among the most versatile business PCs available. Depending on performance requirements and operating space, these machines can be deployed in any industry and for any business environment.

USE CASE: Young entrepreneurs setting up specialty boutiques need devices to manage all in-store data. These devices need to have a small footprint to save on space and power bills. They must also be easily upgradable to ensure scalability as the business grows.

The ThinkCentre Tiny delivers impressive processing power with the latest Intel® Processors and Intel® Optane™ memory. It’s perfect for small businesses that need high performance, durability, and energy efficiency, but have limited space. Its Tiny-in-One (TIO) compatibility allows users to customize and upgrade the system.

USE CASE: Call centers run by low-budget businesses need a network of devices that deliver 24x7x365 uptime. They need PCs that occupy less desk space, consume less power, and deliver performance to power through everyday tasks.

The ThinkCentre Nano brings full PC capability to small spaces. Its compact footprint makes it perfect for deploying in dense call centers or in space-constrained environments. 65% smaller and 30% more energy-efficient than ThinkCentre Tiny, it offers a cost-effective solution for any office environment.

USE CASE: Higher vibration and thermal environments like manufacturing plants need devices that are durable and secure. Factories need IoT-ready devices that enable smarter, automated, and more streamlined operations.

The ThinkCentre Nano IoT with a broader thermal range of 0-50°C and a quiet fan-less design provides processing and security for IoT devices that demand real-time responsiveness. Highly responsive and reliable, it enables a rapid relay of information between connected IoT peripherals and sensors via WiFi, Bluetooth, LPWAN, or WWAN connections—even in harsher commercial environments.
POSSIBILITIES UNFOLD WHEN OUR DEVICES GET ALONG

THINKCENTRE M90n NANO IoT

The ThinkCentre M90n Nano IoT has been designed to be part of new-gen IT infrastructures that are always on, connected, and delivering valuable operational and business insights.

Its fan-less design with heatsink can endure extreme industrial environments, making it more reliable and productive over time.

MANUFACTURING
Integrates with production lines to gather process-critical information

AZURE IoT
Seamless deployment and connectivity with Microsoft® Azure platform

RETAIL
Combined with optic hardware and billing systems, can help gather insights on customer buying trends

B2B spending on Internet of Things (IoT) technologies, apps and solutions will reach $267 billion by 2020, with 50% of IoT spending driven by discrete manufacturing, transportation and logistics, and utilities*.


Powered by Intel®.
THINKCENTRE M90n NANO IoT

REDEFINING POSSIBILITIES IN THE MANUFACTURING INDUSTRY

The Nano fits seamlessly into industrial work environments with its innovative fan-less design and an operating temperature of 0-50°C. Intel® processors, superfast DDR4 memory, and PCIe SSD storage provide enhanced performance. With an IOBOX for additional connectivity, the Nano IoT delivers expandability features optimized for factories that have a wide variety of devices to operate.

RETAIL EFFICIENCY MAXIMIZED WITH SMART COMPUTING

The M90n Nano IoT is compatible with VESA mounts, TIO module brackets, and DIN rails that allow it to be easily affixed and deployed across any retail store. It presents new opportunities for retailers to analyze customer behavior, boost in-store customer engagement with the right product recommendations, mitigate risks, and reduce operational costs.
THINKCENTRE M90n NANO

Compatible with the rich ecosystem that Tiny delivers, the ThinkCentre Nano is suitable for places that require powerful devices of a smaller footprint.

With the smallest form factor on the market, the ThinkCentre M90n Nano brings space-saving convenience and manageability to any user. It can fit virtually anywhere, offering a clutter-free shared-desk work environment.

**EDUCATION**
School and college administrators have complete flexibility to use it for presentations, collaboration and business tasks, and instructors can also use it to create digital classrooms.

**HEALTHCARE**
Can be equipped to serve mobile computing units that process patient data.

**FINANCE**
Offers connectivity to ThinkPad USB-C dock via a full-function USB-C port for financial analysts to multitask on multiple-monitor setups.
THINKCENTRE M90n NANO

ENHANCED ADAPTABILITY FOR MODERN BUSINESS
ThinkCentre Nano meets every requirement for a modern business PC: performance, security, and flexibility. Powered by the 8th Generation Intel® Core™ vPro™ Processors, the Nano is a fit for any job role, from front desk, HR, and administration to creative and sales teams.

THE RIGHT TECHNOLOGY FOR BETTER HEALTHCARE
The Nano’s compact form factor allows it to connect to displays and peripherals through a wide range of ports, making it ideal for the healthcare industry, which demands easy deployability. Healthcare institutions have complete flexibility to use it as a presenting device or even in a mobile diagnosis unit.
THINKSHIELD’S SUITE
OF SECURITY SOLUTIONS

Made by Lenovo for a select list of its devices, it comprises the most comprehensive end-to-end business security solutions for commercial-grade machines. It goes beyond more than just device security and includes a fully customizable suite of processes and capabilities that protect the full lifecycle of assets, from development to disposal. The ThinkShield portfolio offers protection on three levels; Hardware, Software, and Services.

HARDWARE TPM 2.0
A hardware-based TPM (Trusted Platform Module) 2.0 chip in the Nano devices makes use of RSA encryption to protect all on board user data.

KENSINGTON™ LOCK SLOT
A slot on the side of the Nano allows it to be physically locked preventing device theft.

CHASSIS INTRUSION SWITCH
Provides physical security to the Nano devices and protects it from outright damage.

SMART USB PROTECTION
Only authorized peripherals like keyboard and mouse can connect to the Nano through its USB ports.

THINK BIOS
Leveraging Intel® vPro™ a BIOS that can self-heal in the event of human error or attack, can be customized as needed; without any backdoors for added security.

TRUSTED SUPPLIER PROGRAM
Secure process built into development, manufacture, and delivery, providing qualified and reliable components for use in manufacturing.

FIDO
Provides stronger biometric authentication to secure users’ online activity.
RECOMMENDED ACCESSORIES, VISUALS, AND SERVICES

THINKCENTRE NANO DIN RAIL MOUNT
This compact and ruggedly designed mount affixes the Nano on a cabinet with other DIN rail equipment across the industry floor. It securely attaches the Nano inside a rack housing cabinet or frame for a clutter-free workspace.

THINKCENTRE NANO VESA MOUNT
The VESA standard design enables this mount to attach to anything that is VESA compatible for utmost mounting flexibility. This versatile mounting device can be used separately or combined with other options for secure mounting functionality.

THINKCENTRE NANO MONITOR CLAMP
As an ideal addition to Nano’s deployment flexibility, the monitor clamp can be used to install a Nano unit to a monitor to further save space.

THINKVISION T25d-10
Expand the capabilities of the Nano by connecting it to the T25d display. Enjoy smooth, flicker-free visuals from any angle on its 25-inch NearEdgeless In-Plane Switching screen. Versatile HDMI, DP, and VGA ports offer easy connectivity to your favorite work essentials.

THINKCENTRE NANO TIO MODULE BRACKET
The Nano module bracket offers utmost mounting flexibility by allowing you to attach the Nano 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.

LENOVO SERVICES

PREMIER SUPPORT
Provides direct access to skilled and experienced Lenovo technicians offering comprehensive hardware and software support. Gives you a consistent point of contact within Lenovo to ensure that your case resolution is professionally managed from start to finish.

ACCIDENTAL DAMAGE PROTECTION
Prevents the hassle of unexpected repair costs. Provides coverage for non-warranted damage incurred under normal operating conditions, such as minor spills or drops.

WARRANTY EXTENSION
(2 TO 5 YEARS TOTAL DURATION)
This fixed-term, fixed-cost service helps you accurately budget for desktop expenses, protects your valuable investment, and lowers the cost of ownership over time.
**TECH SPECIFICATIONS**

**THINKCENTRE M90n NANO**

**PERFORMANCE**

**PROCESSOR**
- 8th Generation Intel® Core™ i3/i5 Processors
- 8th Generation Intel® Core™ vPro™ i5/i7 Processors

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

**MEMORY**
- Up to 16GB DDR4

**STORAGE**
- Up to 2 x 512GB PCIe SSD

**PSU**
- 65W 88% adapter

**CONNECTIVITY**

**FRONT INPUT/OUTPUT PORTS**
- 2 x USB 3.1 Gen2
- 1 x USB Type-C (USB 3.1 Gen2) (power-in, Display)
- 1 x Audio combo

**REAR INPUT/OUTPUT PORTS**
- 2 x USB 3.1 Gen2
- 1 x USB Type-C (USB 3.1 Gen2) (power-in, Display)
- 2 x USB 3.1 Gen2
- 1 x DisplayPort 1.2
- 1 x RJ45 LAN
- 1 x DC-in

**EXPANSION SLOT**
- 1 x M.2 WiFi/BT

**DIMENSIONS**
- 179 x 88 x 22mm
- 7.04 x 3.46 x 0.86 inches

**WEIGHT**
- 505g/1.1lb

**MECHANICAL PERIPHERALS**
- TIO Cube (for TIO compatibility)
- USB Type-C Docks
- VESA Wall Mount
- Monitor Clamp

**SECURITY**
- HW TPM 2.0
- Chassis intrusion switch
- Smart USB protection
- Kensington™ lock slot

**RELIABILITY**
- MIL-SPEC 810H

**MANAGEABILITY**
- SMART POWER ON

**MULTI-MONITOR**
- Yes, 2 independent displays

**MODERN STANDBY**
- Yes

**CERTIFICATIONS**
- Energy Star® 7.1
- EPEAT™ Silver
- TÜV Ultra Low Noise
- RoHS Compliant
- Ubuntu® Certified*
- Redhat® Certified*

*Limited Configuration
THINKCENTRE M90n NANO IoT

**PERFORMANCE**

**PROCESSOR**
8th 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% adapter

**CONNECTIVITY**

**FRONT INPUT/OUTPUT PORTS**
1 x Power-on button
2 x RS-232
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 (power-in, 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)

**DESIGN**

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

**WEIGHT**
750g/1.65lb

**MECHANICAL PERIPHERALS**
Monitor Clamp
VESAT Wall Mount
DIN Rail Bracket
Nano IoT I/O BOX

**SECURITY**
HW TPM 2.0
Chassis intrusion switch
Smart USB protection
Kensington™ lock slot

**RELIABILITY**
MIL-SPEC 810H
Yes

**MANAGEABILITY**
SMART POWER ON
Yes

**CERTIFICATIONS**
Energy Star® 7.1
EPEAT™ Silver
TÜV Ultra Low Noise
RoHS Compliant
Ubuntu® Certified*
Redhat® Certified*
Azure IoT Certified
5 Reasons why Lenovo is a difference maker

- Trusted around the world
- Expertise across categories
- Confidence in our products
- Business-boosting technology
- Flexible support network

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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