

Lenovo  
Health

Smarter  
technology  
for all

Lenovo

THINKCENTRE® NANO

Buyer's Guide

# THE SMALL MACHINE WITH BIG PERFORMANCE FOR HEALTHCARE

Leverage the world's smallest commercial desktop to transform computing throughout the health system





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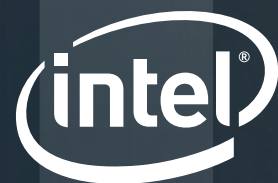
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# A LITTLE GOES A LONG WAY IN HEALTHCARE

Few environments are as space-constrained as a hospital.

Older hospitals were never designed to accommodate the computer technology that drives patient care today. Even in newer hospitals, multiple technologies are competing for limited space — in patient rooms, on powered carts, in call centers, and throughout the health system.

Imagine a full-sized desktop PC that's the size of a small notebook. Imagine greater performance, less power consumption, and longer battery life — all helping you lower costs.

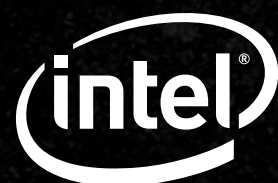
Meet Lenovo's ThinkCentre® Nano. Measuring a scant .35L, Nano fits everywhere. Mount this ultra-small PC behind monitors in exam rooms or hide it beneath desks to free up workspace in crowded coding rooms.

It's not short on security or dependability, either. Nano is MIL-SPEC tested for supreme durability and is backed by the full ThinkShield security portfolio to protect patient data from every possible entry point.

**Welcome to the world of ultra-small computing!**



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# THE BIG ADVANTAGES OF GOING ULTRA-SMALL



## POWER-PACKED PERFORMANCE

An 8th Generation Intel® Core™ processor powers through most healthcare workflows, backed by SSD storage and DDR4 memory.



## ENERGY EFFICIENCY

Built with a laptop processor, Nano sips power, using 30% less than a comparable desktop PC. Nano has earned five green certifications, including ErP LOT 3 and ENERGY STAR® 71.



## NOISELESS DESIGN

In studies, too much ambient hospital noise has been linked to slower healing, lower pain tolerance, and heightened anxiety and stress.<sup>1</sup> Nano's advanced cooling is super-quiet, which is essential for better patient outcomes.



## ADAPTABILITY

Nano's "fit anywhere" design delivers maximum deployment flexibility. Nano slips into a variety of mounting options — including seamless compatibility with Lenovo's ThinkCentre® Tiny ecosystem.



## FLEXIBLE CONNECTIVITY

Full-stack I/O ports connect to monitors, keyboards, and other peripheral devices.



## AMPLIFIED PRODUCTIVITY

Take productivity a notch higher. Power Nano through a USB-C monitor, rapidly plug and play without messy cables, and watch desktops move at the pace of care delivery.



## EASY IT DEPLOYABILITY

Designed with IT in mind, Nano is optimized for deployment and manageability with preloaded options, ready to provision and customize to create the ideal OS for your organization.

<sup>1</sup> [https://www.researchgate.net/publication/232064487\\_Creating\\_a\\_Culture\\_of\\_Safety\\_Reducing\\_Hospital\\_Noise](https://www.researchgate.net/publication/232064487_Creating_a_Culture_of_Safety_Reducing_Hospital_Noise)





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# NANO AT WORK

## SPACE-SAVING APPLICATIONS AROUND THE HOSPITAL

### CLINICIAN WORKFLOWS

Lighten the load for clinicians in more ways than one. The world's smallest commercial desktop effortlessly supports patient care tasks without the burden of heavy computer hardware.

#### Powered Carts

Streamline the mobile cart with a device that weighs barely over a pound and takes up no more room than a small notebook. Nano consumes 30% less power than a comparable desktop, so clinicians can rely on it to perform through the most demanding shifts.

#### Nurses' Stations

Eliminate unsightly cords and bulky devices that get in the way of patient-focused computing. Nano tucks under a desk or behind a monitor to free up space while still delivering full-sized processing power, memory, and SSD storage.

#### Physicians' Offices

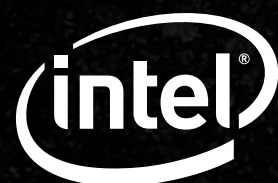
Nano is the ideal primary care companion, tackling every task from patient charting to front-office scheduling to viewing critical lab results.



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ThinkCentre M90n Nano  
with ThinkCentre Tiny





## PATIENT SPACES

Designed to be hidden, Nano ensures that patients see the digital care, not the devices that deliver it.

### Check-In and Discharge

Nano goes undercover inside a cabinet or beneath a desk, but the processing power remains front and center. Super-responsive computing for intake forms and data entry ensures a frictionless patient experience.

### Exam Rooms

Provide an educational video or review imaging with a patient — and only the monitor is visible to the patient. The awkward brackets and cable octopus are eliminated.

### Inpatient Rooms

Patients in neat, visually appealing rooms make fewer requests for pain medication and rate their nursing care higher.<sup>2</sup> Nano helps declutter the hospital room and improve patient care.

### Waiting Rooms

Patients are treated in exam and procedure rooms — but healing really begins in the waiting room. A healthcare facility's physical environment influences patients' waiting experiences and their perception of quality of care.<sup>3</sup> Employ Nano for digital signage, soothing videos, and wayfinding information.



<sup>2</sup> <https://www.americannursetoday.com/room-view-clutter-included/>

<sup>3</sup> <https://thedo.osteopathic.org/2014/05/waiting-rooms-too-can-promote-patient-health/>



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## ADMIN DEPARTMENTS

Improve efficiency for organizations and individuals.

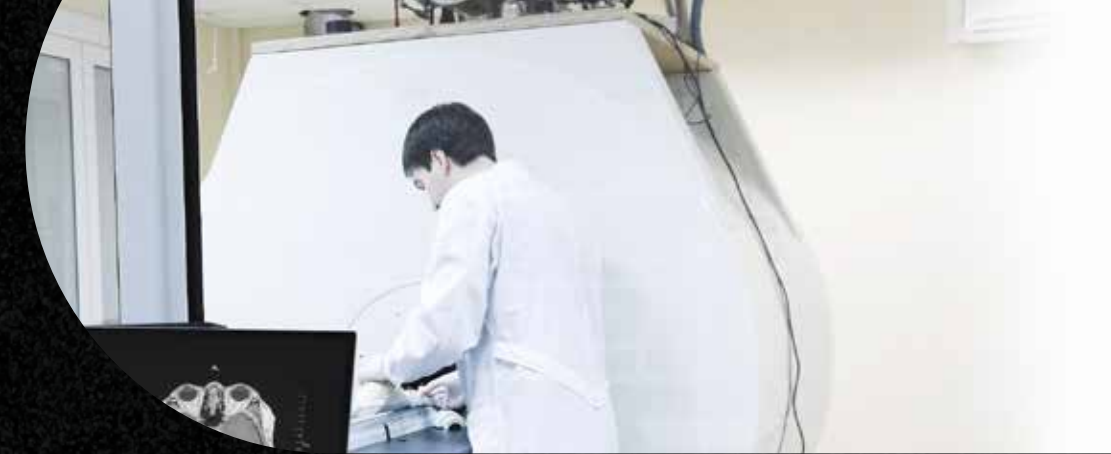
### Call Centers

Comfortably fit more operators into existing spaces. Nano's small size and flexible mounting options increase capacity without compromising on computer responsiveness or performance.

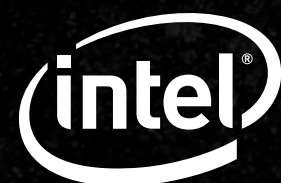
### Billing and Coding

Decluttered workspaces reduce anxiety and boost mental acuity for staff and team members.<sup>4</sup> Nano frees up desk space for coding manuals and reference materials.

<sup>4</sup> <https://www.mayoclinic.org/healthy-lifestyle/stress-management/in-depth/how-decluttering-your-space-could-make-you-healthier-and-happier/art-20390064>



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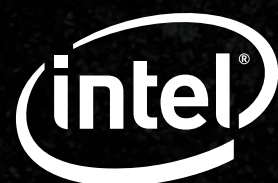
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# ULTRA-SMALL AND ULTRA-SECURE

Nano is protected by the Lenovo ThinkShield security portfolio, a comprehensive suite of tools that protects the full lifecycle of the device from development to disposal.

# ThinkShield



## HARDWARE TPM 2.0

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



## KENSINGTON™ LOCK SLOT

A slot on the side of Nano allows it to be physically locked, preventing device theft.



## CHASSIS INTRUSION SWITCH

Provides physical security to Nano and protects it from outright damage.



## SMART USB PROTECTION

Only authorized peripherals like a keyboard or mouse can connect to Nano through its USB ports.



## THINK BIOS

Leveraging Intel® vPro™, the BIOS can self-heal in the event of human error or attack and can be customized as needed. For added security, there are no back doors.



## TRUSTED SUPPLIER PROGRAM

Secure processes are built into Lenovo development, manufacture, and delivery, providing qualified and reliable components for use in manufacturing.



## FIDO

Provides stronger biometric authentication to secure users' online activity.

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## WHY LENOVO?

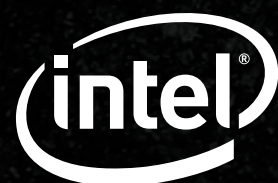
Clinicians and staff in diverse patient care settings need tools that not only facilitate workflows, but also become transparent to care delivery.

Lenovo Health is committed to healthcare from the ground up, with a dedicated team focused on building innovative devices that support and adapt to the changing healthcare landscape.

Nano and the ThinkCentre family are optimized to integrate with all leading healthcare software.

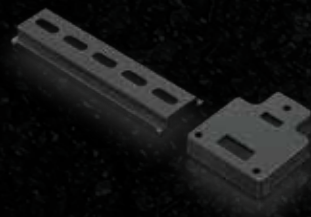
Lenovo serves healthcare in:

- 1,600+ organizations across North America
- 160+ countries globally
- All venues, from major research institutes to small physician practices and everything in between





# RECOMMENDED ACCESSORIES AND VISUALS



## THINKCENTRE NANO DIN RAIL MOUNT

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



## THINKCENTRE NANO VESA MOUNT

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



## THINKCENTRE NANO MONITOR CLAMP

Utilize the monitor clamp to affix a Nano unit to a monitor to save additional space.



## SEAL SHIELD™ KEYBOARD AND MOUSE

Medical-grade Seal Shield products contain an agent that inhibits the growth of microbial bacteria, mold, mildew, and fungi.



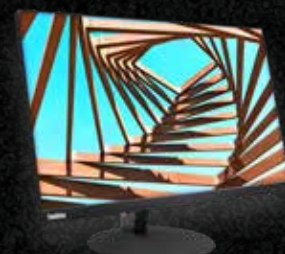
## THINKCENTRE NANO TIO MODULE BRACKET

Attach Nano at the back of a display to build a custom modular PC. This secure mounting also enables easy upgrades of the display or PC as needs change.



## THINKVISION M14

Boost on-the-go productivity and collaboration with this ultra-portable mobile display.



## THINKVISION® T25D-10

Enjoy smooth, flicker-free visuals from any angle on the T25d's 25" NearEdgeless in-plane switching screen. Versatile HDMI, DP, and VGA ports offer easy connectivity to end users' preferred peripheral essentials.





# RECOMMENDED SERVICES

## LENOVO SERVICES



### LENOVO PREMIER SUPPORT

Maintain direct access to skilled and experienced Lenovo technicians who offer comprehensive hardware and software support. Lenovo Premier Support provides a consistent point of contact within Lenovo to ensure that case resolution is professionally managed from start to finish.



### ACCIDENTAL DAMAGE PROTECTION

Avoid the hassle of unexpected repair costs. Accidental Damage Protection 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 IT leaders accurately budget for desktop expenses, protect valuable investments, and lower the cost of ownership over time.





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# TECHNICAL SPECIFICATIONS

## 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)  
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)  
1 x DisplayPort 1.2  
1 x RJ45 LAN  
1 x DC-in

### Expansion Slot

1 x M.2 Wi-Fi/BT

## DESIGN

### Dimensions

179x88x22 mm  
7.04x3.46x0.86"

### Weight

505g/1.1 lb.

### 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 —  
2 independent displays  
Modern Standby

## CERTIFICATIONS

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

\*Limited Configuration

Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configurations 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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