

# Lenovo ThinkCentre

The latest premium Lenovo ThinkCentre M90q Gen 4 Tiny Desktop delivers big productivity for the modern workplace, including healthcare, finance, and retail environments. Powered by up to Intel vPro® Enterprise with 13<sup>th</sup> Gen Intel® Core™ i9 processors, this Lenovo ThinkCentre provides a world-class business PC solution, with better performance, better connectivity, and AI acceleration. Plus, Modern Standby allows the system to continue processing background tasks with very low power consumption.

Flexible mounting options, including under desks and on walls, plus the ability to support up to four independent displays and connect with a variety of additional devices, allow users to create an optimal and efficient workspace that meets their distinctive needs. Data stays secure with the end-to-end protection of Lenovo ThinkShield solutions, including self-healing BIOS, as well as the built-for-business Intel vPro® platform. And when bundled with Tiny-in-One (TIO)\* displays, this Lenovo ThinkCentre offers even greater value and more cost-effective upgrade options.

## Lenovo ThinkCentre M90q



\*Supports Lenovo ThinkCentre TIO 22/24 Gen 3 and Gen 4; TIO 27; and TIO Flex.

Smarter  
technology  
for all

Lenovo



# Lenovo ThinkCentre M90q



	M90q Gen 3	M90q Gen 4	Gen-to-Gen
<b>Platform, Processor &amp; Chipset</b>	Intel vPro® / Up to 12th Gen Intel® Core™ i9-12900 (65W) / Intel® Q670	Intel vPro® / Up to 13th Gen Intel® Core™ i9-13900 (65W) / Intel® Q670	10-20% enhanced performance
<b>Memory</b>	2x DDR5 SODIMM (4800 MHz)	2x DDR5 SODIMM (up to 5600 MHz)	Improved memory with faster frequencies



## BIG PERFORMANCE

Boasting full-size processing power with up to Intel vPro® Enterprise with 13<sup>th</sup> Generation Intel® Core™ i9 processors and up to two DDR5 SODIMM (up to 5600MHz) memory support, this premium Lenovo ThinkCentre is the ultimate desktop form factor for productivity and flexibility. This Tiny delivers premium efficiency too, with features like Smart Power On, which allows users to turn on the desktop using a simple keyboard shortcut even when the power button is not accessible, and Modern Standby, which enables the device to stay up-to-date even during sleep mode. Users can connect this Lenovo ThinkCentre to as many as four displays, while enhanced I/O ports allow for as-needed peripheral expansion.



## COMPREHENSIVE SECURITY

Lenovo ThinkCentre devices allow users to innovate fearlessly with the reinforced security of ThinkShield, the most comprehensive, end-to-end security solution on the market that combines industry-leading hardware, software, services, and processes to protect your ideas and your business. This Lenovo ThinkCentre has built-in features, such as self-healing BIOS, TPM 2.0 chip, and Smart UBS Protection, in addition to other customizable security features. Because ThinkCentre is built on the Intel vPro® Enterprise platform with Intel® Hardware Shield, assets and data are further protected by hardware-based, below-the-OS security features for advanced threat detection.

# Lenovo ThinkCentre M90q



## COMPLETE MANAGEABILITY

This Lenovo ThinkCentre is easy to deploy, upgrade, and manage thanks to features like built-in driver support for older OS versions, a PCIe add-on slot, Modern Standby, and an X4 Ethernet add-on card. With the Intel vPro<sup>®</sup> platform, you have the assurance of remote modern manageability inside or outside the firewall, even when the PC is out of band. Toolless access to the SSD and memory module make expansion and maintenance fast and efficient. Designed to be customized, this efficient powerhouse easily connects with industry-specific equipment and legacy peripherals.



## INTENTIONAL SUSTAINABILITY

This Lenovo ThinkCentre, and all of Lenovo's powerful, secure, and versatile desktop computing solutions powered by the built-for-business Intel vPro<sup>®</sup> platform, help create a more sustainable future. In fact, 100% of Lenovo ThinkCentre models released after 2019 contain closed-loop post-consumer recycled plastic, and 100% of the Intel<sup>®</sup> Core<sup>™</sup> processors used in Lenovo ThinkCentre products are made with conflict-free minerals. And by 2025, 90% of plastic packaging by weight for Lenovo PC products will be made from recycled materials.



## trusted quality

Lenovo's dedication to constantly improving product quality means rigorous testing for durability and reliability, which results in our products achieving one million hours mean time between failure. In addition to our extensive in-house testing for real-world challenges, this Lenovo ThinkCentre is tested against MIL-STD 12 methods and 20 procedures.

## purposeful design

This Lenovo ThinkCentre enhances the computing experience with practical features like Smart Power On, which allows users to turn on the desktop using a simple keyboard shortcut. This is especially useful when this premium Tiny desktop—and its power button—are bundled inside TIO.

## relentless innovation

Lenovo is inspired by our customers and what they want from our devices. It shows in the variety of mounting options we offer for this Lenovo ThinkCentre and the added value this device presents when bundled with TIO. This combination allows businesses to upgrade monitors and PCs separately to save budget and offers users an even more clutter-free, space-saving design.



# Lenovo ThinkCentre M90q

## Services

Lenovo offers a comprehensive portfolio of services that support the full lifecycle of your Lenovo IT assets. From initial strategic planning to customized configuration, deployment, support, protection, security, and asset recovery—Lenovo has solutions to help you embrace new workplace technologies.



### PREMIER SUPPORT

As IT budgets contract, you need to reduce complexity, decrease operational costs, and find ways to increase efficiency from your in-house IT support teams. Lenovo™ Premier Support manages routine support tasks, freeing IT focus on strategic efforts that move the organization forward. Boost end-user productivity and limit downtime with direct access to elite Lenovo engineers who provide unscripted, advanced hardware and software support.



### CO<sub>2</sub> OFFSET SERVICES

As the first in the industry, Lenovo offers this certification service to customers who wish to purchase their PC products CO<sub>2</sub>-compensated over the device's lifecycle. Included in the hardware transaction, CO<sub>2</sub> compensation is based on realistic emission by product, covering production, shipment, and typical usage cycle (5 years). This service proactively supports reduction of CO<sub>2</sub> emitted in the atmosphere and compensates for environmental impact of business operations.



### BULK PACKAGING SERVICE

Bulk Packaging is an environmental packaging solution designed for multiple product types. Each package contains multiples of one like-type product to minimize the amount of material used without jeopardizing the integrity of packaging necessary to protect product in shipping process.

## Accessories

### Vertical Stand

This innovative, elegant stand is designed with a small dip angle in front for ease of use. The Vertical Stand also minimizes vibration and noise while maximizing thermal performance.



PN: SM10Z42055

### ThinkCentre Tiny Clamp Bracket Mounting Kit III

Create a clean working environment and boost productivity with the ThinkCentre Tiny Clamp Bracket Mounting Kit III. Its smart and sleek design makes for quick mounting and effortless expandability.



PN: 4XF1K72399

### ThinkCentre Tiny Vesa Mount II

The ThinkCentre Tiny VESA Mount II is uniquely designed to house the Tiny PC. This versatile mount device can be used separately or combined with other options for a secure mounting functionality.



PN: 4XF0N03161

# Lenovo ThinkCentre M90q

## performance

### PROCESSOR

Up to Intel vPro® Enterprise  
with 13<sup>th</sup> Generation Intel® Core™ i9 processors

### OPERATING SYSTEM

Windows 11 (Home & Pro)  
Windows 11 Downgrade (Pro)  
Windows 10 (IoT)

### MEMORY

Up to 2 DDR5 SODIMM 5600MHz

### PSU

230W 89%, 135W 89%, 90W 89%, 65W 89%

## security

Intel vPro® Enterprise  
dTPM 2.0 chip  
EC Self-healing (level 2)  
BIOS-based Smart USB Protection  
Kensington™ Cable Lock

## connectivity

### FRONT PORTS

2x USB 3.2 Gen 2  
1x USB-C 3.2 Gen 2  
1x Audio Combo

### REAR PORTS

2x USB 3.2 Gen 2  
2x USB 3.2 Gen 1  
1x HDMI 2.1 TMDS  
1x DP 1.4  
Flex IO port #1 (VGA/DP/HDMI/Type-C/Serial)  
Flex IO port #2 (VGA/DP/HDMI/Serial/LAN)  
Flex IO port #1 + #2 (2x USB 3.2 or 4x USB 3.2)  
1x LAN (1G)

### EXPANSION SLOT

1x PCIe slot x8 (Gen 4)

### M.2 SLOT

2x M.2 SSD (PCIe Gen 4)  
1x M.2 Wi-Fi

### INTERNAL BAY

1x 2.5" HDD

### WI-FI

Intel® Wi-Fi 6E<sup>1</sup> (WLAN 802.11 AX)  
Intel® Wi-Fi 6 (WLAN 802.11 AX)

## design

### EOU

Yes (Open chassis/HDD)

### DIMENSIONS

36.5 x 179 x 182.9 mm / 1.4 x 7 x 7.2 in

### WEIGHT

1.3 kg / 2.8 lbs

### MIL-STD-810H

Yes

## manageability

Supports up to 4 monitors  
Smart Power On  
Modern Standby  
Intel vPro® platform

## green certifications

Energy Star® 8.0  
EPEAT™ Gold<sup>2</sup>  
RoHS  
ERP LOT3  
TÜV Ultra Low Noise  
TCO 9.0<sup>2</sup>

<sup>1</sup>16GHz Wi-Fi 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi 6E, and the regional regulatory certifications and spectrum allocation.

<sup>2</sup>Varies by configuration

