

For many small and medium businesses, accessing advanced AI technologies can seem out of reach—premium AI PCs often come with a hefty price tag, limiting opportunities for smaller businesses. This is where ThinkCentre neo 50q QC steps in. Designed as the world's first** commercial AI PC powered by the Snapdragon® X series with Copilot+ PC experiences,¹ it is an affordable entry point for small and medium-sized businesses to tap into next-generation AI features.

The new ThinkCentre neo 50q QC integrates AI into daily workflows, boosting productivity while staying energy-efficient—using 68%² less power than similar models and saving up to \$11,000*** a year. Its quiet design ensures a distraction-free workspace, bringing enterprise-level AI benefits to businesses of all sizes.



*Monitor sold separately.

ThinkCentre neo 50q QC



Front view



Tiny VESA-mounted mode



Rear view

Powered by



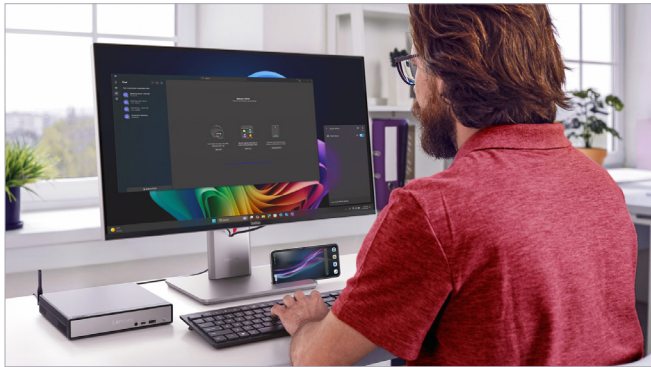
¹Copilot+ PC experiences are coming. Requires free updates available starting late November 2024. Timing varies by device and region. See aka.ms/copilotpluspcs. Some Copilot+ PC features require camera, microphone, speakers and/or advanced hardware. For more details, visit: <https://support.microsoft.com/en-us/topic/copilot-pc-hardware-requirements-35782169-6eab-4d63-a5c5-c498c3037364>

²Based on tests with x86 desktops of similar configuration

ThinkCentre neo 50q QC

Real-world solutions for every workspace

The ThinkCentre neo 50q QC is designed to enhance productivity and simplify workflows. Its advanced AI features, robust connectivity, and eco-friendly construction ensure a scalable and efficient work environment.



Professional in every interaction

With Windows Studio Effects,¹ ThinkCentre neo 50q QC becomes a true workspace companion. It enhances your virtual meetings with AI-driven background blur, lighting adjustments, and auto framing. These tools ensure you always look your best, whether you're presenting or collaborating.



Stay in the loop

Live Captions¹ ensures accessible communication for businesses. Clients, employees, and partners can understand meetings in their preferred language. This feature captures every word, helping teams stay aligned, avoid miscommunication, and collaborate productively and securely.



Sustainable power

The ThinkCentre neo 50q QC blends powerful performance with purpose. The neo 50q QC is energy efficient, using 68%² less power than comparable models. This energy-smart design saves electricity costs up to \$11,000*** a year while supporting your sustainability goals.



Effortless multitasking

The connectivity options—six USB ports, one DisplayPort, and one BTB punch-out port (DP/VGA)—make connecting multiple peripherals and supporting up to three monitors easy. Designed for multitaskers, the device offers the flexibility to streamline your workflow and accomplish more, all at once.

Powered by



¹Copilot+ PC experiences are coming. Requires free updates available starting late November 2024. Timing varies by device and region. See aka.ms/copilotpluspc. Some Copilot+ PC features require camera, microphone, speakers and/or advanced hardware. For more details, visit: <https://support.microsoft.com/en-us/topic/copilot-pc-hardware-requirements-35782169-6eab-4d63-a5c5-c498c3037364>

²Based on tests with x86 desktops of similar configuration

www.lenovo.com

Lenovo

ThinkCentre neo 50q QC



Power in a compact form

The ThinkCentre neo 50q QC, the world's first** commercial desktop AI PC powered by the Snapdragon X series with Copilot+ PC experiences¹, delivers impressive performance. The up to Snapdragon® X processor guarantees seamless processing, eliminating lag or disruptions. The Qualcomm® Adreno™ GPU offers smooth graphics for graphics-intensive applications. With up to 45 TOPS Qualcomm® Hexagon™ NPU, the device handles demanding AI workloads with ease. The up to 32GB LPDDR5x memory and up to 1TB SSD storage provide fast file access and multitasking. Its compact design features hidden ventilation for efficient cooling, ensuring optimal performance while preventing overheating.



Built for AI

Powered by the cutting-edge Qualcomm® Hexagon™ NPU, the ThinkCentre neo 50q QC brings intuitive AI productivity tools to your fingertips. With Copilot+ PC experiences¹, like Windows Studio Effects, you'll always look professional in virtual meetings. Live Captions¹ offers real-time captions, making it easier to follow calls. Lenovo AI Now, the in-house AI assistant, enhances productivity by streamlining workflows. The desktop ensures low power consumption, even during intensive AI tasks, for maximum productivity.



Smart and sustainable

The ThinkCentre neo 50q QC eliminates the hassle of switching between devices with Smart Connect, automatically linking your phones, tablets, and PCs. Whether juggling tasks or hopping between devices, Smart Connect keeps your workflow uninterrupted. With ample ports, easily connect multiple monitors and peripherals. The device is made with recycled plastic and holds ENERGY STAR® 9.0, TCO 10.0, and TÜV Ultra Low Noise certifications, providing an eco-friendly, quiet, energy-efficient workspace.

Accessories



(PN: SM10Z42055)

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: 4XHON23158)

ThinkCentre Tiny Power Cage II

ThinkCentre Tiny Power Cage II is a mounting solution that provides an efficient and secure Power adapter mounting solution for your Tiny PC.



(PN: 4XFON03161)

ThinkCentre Tiny Vesa Mount II

The ThinkCentre Tiny VESA Mount II is uniquely designed to house the ThinkCentre neo 50q. This versatile mount device can be used separately or combined with other options for a secure mounting functionality.

Powered by



Services



Lenovo Premier Support Plus

Reduce downtime and increase productivity with direct access to advanced technicians who provide better, faster solutions that work every time—anytime, anywhere.



Lenovo CO₂ Offset Services

Make carbon offsetting easy with a seamless, transparent process for Lenovo devices across current IT fleets or new purchases—with a sustainability dashboard to view the offset metrics.



Lenovo Asset Recovery Services

This solution manages IT assets at end-of-life, with a dedicated Lenovo team ensuring environmentally responsible disposal through certified recycling, reuse, and refurbishment.



Warranty Extension (1-year base warranty)

This fixed-term, fixed-cost service helps you accurately budget for desktop expenses, protect your valuable investment, and lower the cost of ownership over time.

*Copilot+ PC experiences are coming. Requires free updates available starting late November 2024. Timing varies by device and region. See aka.ms/copilotpluspcs. Some Copilot+ PC features require camera, microphone, speakers and/or advanced hardware. For more details, visit: <https://support.microsoft.com/en-us/topic/copilot-pc-hardware-requirements-35782169-6eab-4d63-a5c5-c498c3037364>

www.lenovo.com

Lenovo

ThinkCentre neo 50q QC

Performance

Processor

Snapdragon® X processor

Neural Processing Unit

Qualcomm® Hexagon™

Up to 45 TOPS

Operating System

Windows 11 Pro

Memory

Up to 32GB LPDDR5x

8448MHz

Storage

Up to 1TB PCIe Gen4 x 4

M.2 2280 SSD

Graphics

Qualcomm® Adreno™

PSU

65W/90W, 89%

Connectivity

WLAN

Up to Wi-Fi 6E

Bluetooth® 5.3

Front I/O ports

1 x USB 3.2 Gen2

1 x USB 3.2 Gen2 (Type-C)

1 x Combo Audio

Rear I/O ports

1 x Power-in

1 x DP 1.4a

2 x USB 3.2 Gen2 (Type-A)

1 x HDMI 2.1 TMDS

2 x USB 2.0 (Type-A)

1 x Ethernet (1G, RJ-45)

1 x BTB Punch-out port (DP/VGA)

M.2 Slot

2 x M.2 SSD (PCIe Gen4)

1 x M.2 Wi-Fi

Design

Form factor

1L Tiny

Size packed w/stand

(D x H x W)

528 x 125 x 246mm

20.79 x 4.92 x 9.69 inch

Size unpacked w/stand

(D x H x W) (Lowest position)

182.9 x 179 x 36.5mm

7.2 x 7.05 x 1.44 inch

Weight packed

2.925kg/6.45lbs.

Weight unpacked

1.18kg/2.6lbs.

Color and material

Front cover

Luna Grey, plastic textured

IO Plate

Luna Grey, painting

Chassis

Eclipse Black, metal

Software

Microsoft Office Trial

Microsoft AI Apps

Lenovo AI Now

Lenovo Vantage

Smart Connect

McAfee Live Safe Trial

Certification

ENERGY STAR® 9.0

EPEAT™ Gold

EPEAT™ Silver

TCO 10.0

TÜV Low Noise

TÜV Ultra Low Noise

RoHS

ErP Lot3

GreenGuard/VOC

Low Halogen

Copilot+ PC¹



Security

ThinkShield Security Suite

fTPM

Kensington™ Security Slot

Secure Wipe

Powered by



¹Copilot+ PC experiences are coming. Requires free updates available starting late November 2024. Timing varies by device and region. See aka.ms/copilotpluspcs. Some Copilot+ PC features require camera, microphone, speakers and/or advanced hardware. For more details, Visit: <https://support.microsoft.com/en-us/topic/copilot-pc-hardware-requirements-35782169-6eab-4d63-a5c5-c498c3037364>

^{**}Based on research conducted by Lenovo in January 2025 of commercial desktops sold by major PC manufacturers shipping >1 million units annually, and confirmed by Qualcomm Technologies Inc.

^{***}Based on tests with x86 desktops of similar configuration, assuming a power usage of 16.86 kWh at the global average power rate of \$0.15/kWh. Calculations are for 1000 units, operating 8 hours per day over 260 working days a year.

www.lenovo.com

© 2025 Lenovo. All rights reserved. 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. These products are available while supplies last. Prices shown are subject to change without notice. For any questions concerning price, please contact your Lenovo Account Executive. Lenovo is not responsible for photographic or typographic errors. Warranty: For a copy of applicable warranties, write to: Warranty Information, 500 Park Offices Drive, RTP, NC 27709, Attn: Dept. ZPYA/B600. Lenovo makes no representation or warranty regarding third-party products or services. Trademarks: Lenovo, the Lenovo logo, Rescue and Recovery, ThinkPad, ThinkCentre, ThinkStation, ThinkVantage, and ThinkVision are trademarks or registered trademarks of Lenovo. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Snapdragon and Qualcomm branded products are products of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm patented technologies are licensed by Qualcomm Incorporated.

Lenovo