Lenovo
ThinkCentre

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.

ThinkCentre neo 50q QC

*Monitor sold separately.

Front view

Tiny VESA-mounted mode

Rear view

Powered by

Snapdragon X

Copilot+PC

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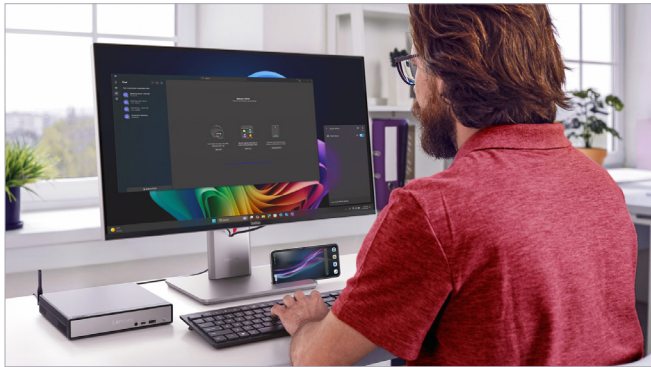
Professional in every interaction
With Windows Studio Effects,[1] ThinkCentre neo 50q QC becomes a true workspace companion. It enhances your virtual meetings with AI-driven background blur, lighting adjustments, and auto framing. These tools ensure you always look your best, whether you're presenting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

Stay in the loop
Live Captions[1] 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.

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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 experiences[1], 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 experiences[1], like Windows Studio Effects, you'll always look professional in virtual meetings. Live Captions[1] 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

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 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: 4XH0N23158)

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.

(PN: 4XF0N03161)

Powered by

Snapdragon X

Copilot+PC

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 CO_2 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.

[1] 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

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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

Security

ThinkShield Security Suite
fTPM
Kensington™ Security Slot
Secure Wipe

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+ PC[1]

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Snapdragon X

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