ThinkCentre neo 50q QC

Redefine possibilities with the first-ever AI Desktop from Qualcomm, powered by Snapdragon® X Plus 8-core CPU and a groundbreaking HexagonTM NPU that delivers 45 TOPs of performance for astonishing on-device AI processing. The 8-core OryonTM CPU is optimized for AI-driven tasks, seamlessly accelerating workloads such as voice recognition, predictive text, and intelligent system optimization, making daily tasks more efficient. All this performance comes with incredible power efficiency, contributing to sustainable and cost-effective operations.

Empowering the modern workforce with a streamlined desktop experience

This desktop enhances productivity and accessibility with CoPilot+ features, including Windows Studio Effects and Live Captions. The Windows Studio Effects improve your virtual presence with advanced noise suppression, background blur, and eye-contact alignment, resulting in a more polished, engaging, and professional experience. Stay inclusive with Live Captions, which instantly convert speech to text in 44 languages—perfect for noisy environments or when you need extra clarity.

Stay connected with six strategically placed USB ports (5 Type-A and 1 Type-C), eliminating the need for external hubs. Connect all your essentials, from keyboards and mice to external storage, via the Type-A ports, while the high-speed Type-C port ensures fast charging and rapid data transfer. Additionally, the BTB Flex IO port supports both DisplayPort and VGA connections, providing versatile display compatibility.

Experience enterprise-grade security with ThinkShield, which safeguards the desktop against cyber threats through hardware-level encryption and malware prevention. The integrated TPM 2.0 ensures sensitive data remains protected and enhances multi-factor authentication, preventing unauthorized access.

Bring the AI power with the first CoPilot+PC

For teams requiring a reliable device to handle diverse workloads, the first AI-powered commercial desktop from Qualcomm stands ready. Built for enterprise-level performance, it efficiently handles core tasks and tackles even the most complex projects. With an integrated Qualcomm® Adreno™ GPU, it renders graphics for everyday tasks, offering ultra-fast responsiveness and superior performance without compromising energy efficiency.

Powerhouse Performance

Unlock the potential of high-performance storage with support for up to 2xM.2 SSD. This ensures quick system startup and smooth performance of AI applications, all while contributing to efficient system cooling and quieter operation.

Thermal Management

The invisible gap optimizes airflow, reducing fan noise and keeping the desktop cool during high-performance tasks. This efficient cooling system prevents overheating, ensuring consistent performance without throttling.

Refreshed design

Designed for optimal functionality, the desktop's clean, minimal design embodies sophistication without unnecessary complexity. The sleek, contemporary aesthetic enhances the workspace while promoting consistent performance, balancing both form and function.

Built to reduce environmental footprint

Lenovo is making the industry's broadest portfolio of technology solutions more sustainable to help organizations reduce their environmental impact. As a global technology powerhouse, Lenovo is committed to achieving net-zero greenhouse gas emissions by 2050 with targets validated by SBTi.

Recycled or sustainable product materials

Lenovo embraces sustainability by assimilating recycled materials such as post-consumer recycled content (PCC) in its manufacturing processes. Incorporating these materials makes the manufacturing process energy efficient, leading to a decreased carbon footprint and contributing to a circular economy.

- 85% PCC in all chassis, plastics including HDD tray
- 30% PCC in fan frame, 85% PCC in fan dust, 30% PCC in PSU fan

Recycled shipping/packaging content

Lenovo is innovating to increase energy efficiency and the use of recycled content in our devices. By incorporating post-industrial recycled content and recycled ocean-bound plastic, our packaging provides exceptional protection to the device and significantly minimizes waste, while ensuring it undergoes rigorous testing to ensure low chemical emissions.

- Desktop body made using biomass plastic from cocunut shell

Product PCC

85% PCC in all chassis plastics including HDD tray, 30% PCC in fan frame, 85% PCC in fan dust, 30% PCC in PSU fan

Lenovo Premier Support Plus

Lenovo Premier Support Plus offers comprehensive assistance by freeing IT teams from break/fix responsibilities. Its AI-driven predictive issue detection anticipates problems ensuring uninterrupted productivity, while with 24x7 access to experts, remote fixes are seamless. Plus, Accidental Damage handles mishaps and Keep Your Drive ensures security

TruScale Device as a Service

Get access to the industry's broadest technology portfolio from the pocket to the cloud. Our flexible pay-as-you-go technology models deliver scalability in ways that traditional procurement methods can't. Devices, services, and support can all be added, changed, or removed easily through a single point of contact.

Lenovo Co2 Offset Service

Lenovo's Co2 Offset Service makes offsetting carbon emissions simple and within the control of the customer. We offset carbon emissions across the average lifecycle associated with each of our devices by providing the option at the point of purchase, supporting the United Nations, Gold Standard®, and Climate Action Reserve.

Lenovo Services

Lenovo delivers tailored sustainability services, devices, and infrastructure solutions from our broad portfolio, working closely with you to support your target outcomes across the IT lifecycle..

Accessories

ThinkCentre Tiny VESA Mount II

- Supports mounting of a ThinkCentre Tiny to the back of VESA-compatible displays
- Can be used separately or combined with other options for secure mounting
- Simple 4-screw design keeps the device securely attached to the mount

PN: 4XF0N03161

ThinkBook Bluetooth Silent Mouse

- Bluetooth mouse with silent buttons for noise-free operation
- Low-profile design suitable for both right-handed and left-handed users
- 4 buttons, 2-way scrolling with easy DPI adjustment: 2400, 1600, 800

PN: 4Y50X88824

ThinkCentre neo 50q QC

Performance

Processor
Snapdragon X

Operating System*
Windows 11 Pro (on ARM)
Windows 11 Home (on ARM)
Windows 11 Home Single Language (on ARM)

NPU
Integrated Qualcomm Hexagon NPU, up to 45 TOPS

Graphics
Qualcomm Adreno GPU

Chipset
Qualcomm SoC (System on Chip) platform

Memory [1]
16GB LPDDR5x-8448, soldered
32GB LPDDR5x-8448, soldered

[1]*The max memory is based on the test results with current Lenovo memory offerings.*

Storage [2]
Dual SSD mode: up to two drives, 2x M.2 SSD
· M.2 2280 SSD up to 1TB

[2]*The max capacity of each disk type is based on the test results with current Lenovo storage offerings.*

Audio*
High Definition (HD) Audio with single speaker

Power Supply*
65W 89% adapter
90W 89% adapter

Design

Form factor
Tiny (1L)

Dimensions [3]
36.5 x 182.9 x 179mm (1.44 x 7.2 x 7.05inches)

[3]*The system dimensions may vary depending on configurations.*

Weight [4]
Around 1.11 kg (2.45 lbs)

[4]*The system weight is approximate and may vary depending on configurations*

Color
Eclipse black

Expansion Slots
Three M.2 slots (one for WLAN, two for SSD)

Connectivity

Ethernet
One Gigabit onboard Ethernet, 1x RJ-45

WLAN + Bluetooth* [5]
802.11ax (Wi-Fi 6E), Bluetooth 5.3

[5]*Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.*

Front ports
1x USB-A (USB 10Gbps / USB 3.2 Gen 2), with Always On and 5V@2.1A charging
1x headphone / microphone combo jack (3.5mm)
1x USB-C (USB 10Gbps / USB 3.2 Gen 2), with data transfer and 5V@0.9A charging

Rear ports
2x USB-A (Hi-Speed USB / USB 2.0)
2x USB-A (USB 10Gbps / USB 3.2 Gen 2)
1x HDMI 2.1 TMDS
1x DisplayPort 1.4a (HBR2)
1x Ethernet (GbE RJ-45)
1x Power connector
Punch out port (one of VGA / DisplayPort 1.4a HBR2)*

Security & Privacy

Security
Discrete TPM 2.0
Kensington Security Slot

Lenovo services

Base Warranty
Up to 3-year limited onsite service

Certifications

Green Certifications [7] [8]
ENERGY STAR 9.0*
EPEAT Gold Registered*
GREENGUARD
RoHS compliant
TCO Certified 10.0
VOC Report

[7]*The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.*

[8]*EPEAT is registered where applicable, please see epeat.net for registration status by country.*

Other Certifications
TÜV Rheinland Ultra Low Noise*