ThinkCentre neo 50q Gen 6

Built to anchor demanding office workflows, this desktop leverages Intel V Series Core Ultra 5 / 7 Processor with Copilot+ PC capabilities to accelerate analysis, content creation, and multitasking. Integrated Intel AI Boost and high overall TOPS enable on-device AI tasks such as data summarization, automation, and intelligent assistance, while Windows 11 Pro supports secure collaboration, virtualization, and modern management for diverse professional environments, ensuring consistent responsiveness during complex projects, parallel applications, and evolving AI-driven business processes at scale across organizations worldwide.

Empowering the modern workforce with a streamlined desktop experience

ThinkCentre Neo series offers enhanced manageability and security features, along with additional configuration and expansion options.

Engineered for efficiency, the system pairs 16GB LPDDR5x memory with fast M.2 SSD storage to keep datasets, files, and applications readily accessible. Intel UHD integrated graphics further support everyday visualization, reporting, and multi-display productivity without adding complexity or unnecessary power draw in professional business settings.

Designed in a compact 1L Tiny form factor, the lightweight chassis integrates Wi-Fi 7 connectivity and discrete TPM 2.0 security, making the desktop easy to deploy, protect, and manage across fixed workspaces with minimal disruption.

Its compact 1L design optimizes workspace efficiency by fitting seamlessly into desks or behind displays, enabling clean setups, flexible placement, and easier deployment in space-constrained environments without compromising performance or connectivity.

Updated:2026-07-24

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

Lenovo Essential Wireless Combo Keyboard & Mouse Gen 2

- Embrace the freedom of a clutter-free and cable-free work setup.
- Ergonomically sculpted cups and low-profile island keys for maximum comfort.
- A 2.4 MHz receiver for a seamless keyboard and mouse connection.

PN: 4X31N50708 – 4X31N50757

ThinkVision E24q-30

- Calibrated color accuracy for an immersive visual experience
- Multitask effortlessly with the limitless capability of ports
- Exceptional ergonomic comfort and eco-friendly design

ThinkCentre neo 50q Gen 6

Performance

Processor
Intel V Series Core Ultra 5 / 7 Processor (Series 2)

Operating System*
Windows 11 Pro or Home

NPU*
Integrated Intel AI Boost, up to 47 TOPS
Integrated Intel AI Boost, up to 40 TOPS

Graphics
Intel UHD graphics (integrated)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB soldered LPDDR5X-8533 MoP, not upgradable

Storage
One drive, up to 1TB M.2 SSD

Audio*
High Definition (HD) Audio
Single speaker, 2W x1*

Power Supply*
135W 89% adapter
90W 89% adapter
65W 89% adapter

Design

Form factor
Tiny (1L)

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

Weight
Around 0.89 kg (1.96 lbs)

Color
Raven black

Connectivity

Ethernet*
Gigabit onboard Ethernet
2.5GbE Onboard Ethernet*

WLAN + Bluetooth*
802.11ax (Wi-Fi 6) or 802.11be (Wi-Fi 7), Bluetooth 5.2 or 5.4
Up to Intel Wi-Fi 7 RTL8922AE, Bluetooth 5.4

Front ports
1x USB-C (USB 10Gbps / USB 3.2 Gen 2), with data transfer and 5V@3A charging
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)

Rear ports
2x USB-A (Hi-Speed USB / USB 2.0), one supports Smart Power On
2x USB-A (USB 10Gbps / USB 3.2 Gen 2)
1x HDMI 2.1 TMDS
1x DisplayPort 1.4b
1x Ethernet (GbE RJ-45)
1x Power connector

Security & Privacy

Security
Discrete TPM 2.0
Kensington Security Slot
Chassis Intrusion Switch*

Lenovo services

Base Warranty
Up to 1-year limited onsite service

Certifications

Green Certifications
ENERGY STAR 9.0*
EPEAT Gold Registered*
RoHS compliant
TCO Certified, generation 10

Other Certifications
TÜV Rheinland Ultra Low Noise*

Items with * are optional and only available on selected models. Information presented here may represent the maximum possible configurations for this product, but it does not necessarily reflect what is available in your region. Please ask your rep or check the specifications for specific Part Numbers in your region. © 2026 Lenovo. Products are available while supplies last. Lenovo is not responsible for photographic or typographic errors. Lenovo, the Lenovo logo, ThinkPad, ThinkCentre, ThinkBook, ThinkStation and ThinkVision are trademarks or registered trademarks of Lenovo. 3rd party product and service names may be trademarks of others. Depending on factors such as the processing capability of peripheral devices, file attributes, system configuration and operating environments, the actual data transfer rate of USB connectors will vary and is typically slower than published standards.