

ThinkCentre neo 50t Gen 6

Built for uninterrupted productivity, this desktop features up to Intel® Core™ Ultra 7 Processor and up to 64GB DDR5 memory, ideal for professionals managing complex spreadsheets, processing large datasets, or running enterprise software. The integrated Intel® AI Boost with up to 13 TOPS accelerates intelligent automation, from predictive modeling to real-time analytics. With a compact 13.6L tower form factor, it fits comfortably in space-conscious workspaces. Meanwhile, Intel® Wi-Fi® 7 ensures ultra-fast connectivity for seamless video conferencing, cloud access, and secure data exchange.



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.

Equipped to support up to three independent displays, this desktop allows professionals to simultaneously view dashboards, documents, and communication tools. USB-A, USB-C®, DisplayPort™, and HDMI ports provide plug-and-play flexibility for modern devices. Intel® UHD Graphics ensures crisp visuals for everything from design work to data visualization.

For teams managing large volumes of project files or client data, the desktop offers room for up to three drives, 1x HDD + 2x SSD. Discrete TPM 2.0 ensures hardware-based protection for sensitive business information.

With a compact 13.6L tower form factor, it is built to optimize space, making it ideal for desk-based professionals who need powerful performance without compromising valuable workspace in offices or workstations.

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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 Wired ANC Headset Gen 2



- Active Noise Cancellation
- Certified for Zoom and Microsoft Teams
- Inline Control Box with LED Indication

PN: Teams : 4XD1M45627, UC : 4XD1M39029

ThinkPad Bluetooth Silent Mouse



- Left/Right hand, easy-to-carry low profile mouse
- Switch between 2 devices with dual-host Bluetooth 5.0 connectivity
- 2-way scrolling with on-the-fly DPI adjustment (2400, 1600, 800)

PN: With Battery : 4Y50X88822 Without Battery : 4Y50X88823

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Performance

Processor
Intel Core Ultra 3 / 5 / 7 Processor (Series 2)

Operating System*
Windows 11 Pro
Ubuntu Linux

NPU*
Integrated Intel AI Boost, up to 13 TOPS

Graphics
Intel graphics (Integrated)
Intel Arc A310 LP 4GB
NVIDIA GeForce RTX 3050 6GB

Chipset
Intel B860 chipset

Memory
Up to 64GB DDR5-5600, two SODIMM slots

Storage
Up to three drives, 1x 3.5" HDD + 2x M.2 SSD
• 3.5" HDD up to 2TB
• M.2 SSD up to 1TB each
For installing HDD storage, 3.5'' HDD screw and grommet kit is needed.

Optical*
DVD-ROM or DVD±RW*

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

Power Supply*
400W 92%, 310W 92%, 260W 90%, 200W 90% PSU

Design

Form factor
Tower (13.6L)

Dimensions
145 x 292.2 x 365 mm (5.71x 11.50 x 14.37 inches)

Weight
Around 5.8 kg (12.79 lbs)

Color
Raven Black

Bays
1x 3.5" disk bay
1x slim ODD bay

Expansion Slots
One PCIe 4.0 x16
One PCIe 3.0 x1
Three M.2 slots (one for WLAN, two for SSD)

Cooling system*
1x rear system fan*

Connectivity

Ethernet*
Gigabit onboard Ethernet

WLAN + Bluetooth*
802.11be (Wi-Fi 7) or 802.11ax (Wi-Fi 6 / Wi-Fi 6E), Bluetooth 5.2, 5.3 or 5.4
Up to Realtek Wi-Fi 7 RTL8922AE, Bluetooth 5.4

Front ports
1x USB-C (USB 5Gbps / USB 3.2 Gen 1), with data transfer and 15W charging
2x USB-A (Hi-Speed USB / USB 2.0)
2x USB-A (USB 5Gbps / USB 3.2 Gen 1)
1x headphone / microphone combo jack (3.5mm)
1x microphone (3.5mm)

Rear ports
2x USB-A (Hi-Speed USB / USB 2.0)
2x USB-A (USB 5Gbps / USB 3.2 Gen 1), one supports Smart Power On
1x HDMI 2.1 TMDS
1x DisplayPort 1.4
1x VGA1x Ethernet (RJ-45)
1x line-out (3.5mm)
1x parallel*
2x serial*
2x PS/2*

Security & Privacy

Security
Discrete TPM 2.0
Smart Cable Clip*
Kensington Security Slot
Padlock Loop
Chassis Intrusion Switch*

Environmental

Material
85% PCC ABS used in the chassis
95% PCC ABS in KB/mouse
90% PIC recycled plastic EPE cushion
30% OBP used in the device bag
FSC Council certified carton

Lenovo services

Base Warranty
Up to 1-year limited onsite service

Certifications

Green Certifications
EPEAT 1.0 Gold Registered*
ENERGY STAR 9.0*
RoHS compliant

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.