



Smarter
technology
for all

Lenovo

Embrace the power of AI at your desk with the **ThinkCentre neo 50s Gen 6**, Lenovo and Intel's first Small Form Factor AI PC. It combines a compact form with exceptional performance for IT startups, developing businesses, small clinics, product designers, and product managers.

With up to Intel® Core™ Ultra processors, discrete graphics, and a dedicated NPU delivering up to 30 TOPS,* this desktop brings AI-driven productivity to everyday workflows: managing IT, analyzing data, or enhancing collaboration.

ThinkCentre neo 50s Gen 6



That's the power of Intel Inside®

*Design reserve

ThinkCentre neo 50s Gen 6



Made for multitaskers

Responsiveness is key to productivity, and the ThinkCentre neo 50s Gen 6 delivers. It easily handles demanding workloads with support for **up to 64GB DDR5 memory, 2TB Gen4 SSD storage, and 2TB HDD**. Its AI capabilities ensure faster insights and more efficient multitasking, from designing next-gen apps to running campaigns.



Low profile, big power

Compact yet powerful, this **8.2L Small Form Factor desktop** fits seamlessly into tight spaces while delivering enterprise-grade performance. Ideal for small clinics and startups, it provides the horsepower to crunch data, build applications, and scale operations. Built-in **ThinkShield Security** protects sensitive information, adding another layer of reliability to its performance.



The AI advantage

The Lenovo ThinkCentre neo 50s Gen 6 delivers robust AI features for entry-level use cases. Powered by **up to Intel® Core™ Ultra 7 processors, discrete graphics, and a dNPU with up to 30 TOPS,*** it accelerates everyday tasks with intelligence. With its built-in **Knowledge Assistant, Lenovo AI Now** helps summarize large datasets. The **AI Turbo Engine** enhances performance and powers smarter conferencing for clearer calls and smoother collaboration.



Connections that matter

Stay connected and productive with the latest connectivity options. **Wi-Fi 7** ensures ultra-fast wireless speeds, while eight USB ports, HDMI 2.1, DisplayPort, audio ports, and optional Serial and Card Reader slots give you flexibility for multiple devices. With **Lenovo Smart Connect**, users can easily sync and share data across PCs, tablets, and smartphones.



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ThinkCentre neo 50s Gen 6

Crafted for sustainability

ThinkCentre neo 50s Gen 6 comes with **Energy Star® 9, RoHS, EPEAT™, and TÜV Ultra Low Noise certifications**. Its packaging is responsibly sourced, with **FSC®-certified** materials, ocean-bound plastic and post-consumer recycled content in the keyboard and mouse.

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 fleet 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.

Accessories

Lenovo Professional Wireless Keyboard and Mouse Combo

The Lenovo Professional Wireless Keyboard and Mouse Combo is a full-size keyboard and mouse combination in a modern wireless solution. The slim 3-zone keyboard with number pad has responsive quiet keys and a premium typing experience. The ergonomic full-size mouse with precise 1600dpi laser sensor and 4-way scroll wheel provides comfort and support for all day use. Connect compatible Lenovo laptops or desktops with just 1 nano receiver.



(PN: 4X30H56796)

Lenovo QHD Webcam

The Lenovo QHD Webcam redefines webcam technology with 2K resolution, superior image quality, innovative design and Microsoft Teams certification, it seamlessly integrates into collaborative work environments. Advanced AI features like auto-framing, face AE/AF and AI noise reduction enhance communication and productivity. It's not just a webcam; it's a comprehensive solution revolutionising video conferencing with its advanced technology and functionality.



(PN: 4XC1Q25245)



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ThinkCentre neo 50s Gen 6

Performance

Processor

Up to Intel® Core™ Ultra 7 processor
65W Thermal Design (TDP) available

Graphics

Integrated Intel® UMA
Intel® Arc™ A310 4GB
NVIDIA® GeForce RTX® 3050 6GB

Neural Processing Unit

Up to 13 TOPS AI Performance
Up to 30 TOPS discrete M.2 NPU Card
(Design reserve)

Operating System

Windows 11 Pro¹
Windows 11 Home
Windows 11 Home - Single Language
Linux

Memory

Up to 64GB (5600MHz), 2x DDR5 UDIMM

Storage

Up to 2TB 3.5" HDD
2 x 1TB M.2 Gen4 Performance SSD

Power Supply

260W (90% Energy Efficient)
200W (90% Energy Efficient)

Connectivity

LAN

10/100/1000M

WLAN

Realtek® Wi-Fi® 6 RTL8852BE,
802.11ax Dual Band
2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card

Intel® Wi-Fi® 6 AX203, 802.11ax
2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card

Intel® Wi-Fi® 6E AX211, 802.11ax
2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card

Realtek® Wi-Fi® 7 RTL8922AE,
802.11be 2x2 Wi-Fi® + Bluetooth® 5.4



That's the power of Intel Inside®

© 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. Intel, the Intel logo, Intel Inside, Intel Core, and Core Inside are trademarks of Intel Corporation in the U.S. and/or other countries. Other company, product and service names may be trademarks or service marks of others.

Front I/O ports

1 x USB-C (USB 5Gbps)
2 x USB-A (5 Gbps); 1 Always-On
Headphone/microphone combo
3-in-1 Card Reader²

Rear I/O ports

Audio out
2 x USB 2.0
2 x USB 3.2 Gen1 Type A
(1 Always-On for Keyboard Power On)
HDMI 2.1 (Supports 4K@60Hz)
Ethernet (RJ45)
DisplayPort 1.4
Parallel Port²
2 x Serial COM
USB-A (High-Speed USB)²

Internal bay

1 x 3.5" HDD

External bay

1 x Slim ODD²

Expansion slots

PCIe x16 Gen4
PCIe x1
M.2 PCIe SSD Gen4
M.2 Wi-Fi

Design

Form factor

8.2L Small Form Factor

Display

Supports up to 4 independent monitors (with dGPU)

Audio

Internal speaker

Dimensions (H x W x D)

92.5 x 291.7 x 339.5mm
(3.6 x 11.5 x 13.4 inches)

Weight packed

Starting at 4.33kg/9.54lbs.

Color

Black

Material

85% post-consumer content (PCC) in chassis
90% post-industry content (PIC) in packing cushion
30% ocean-bound plastic (OBP) in device bag

AI Features

Lenovo AI Now
AI Turbo Engine

Security

ThinkShield Security
dTPM 2.0
Kensington™ security slot
Cable lock²
Intrusion switch cable²
Padlock loop

Software

Microsoft Office 365 (Trial)
McAfee Live Safe (Trial)
Lenovo Vantage
Lenovo Smart Connect
Lenovo Smart Storage
Adobe
Adobe Element
Bufferzone
Blancco

Certification

Energy Star® 9.0
FSC® certified carton
TÜV Ultra Low Noise certification
RoHS
Waste Electrical and Electronic Equipment (WEEE)
REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals)
AntiResonance & AntiShock certification

¹Lenovo recommends Windows 11 Pro for business

²Optional

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