

ThinkCentre neo 50s Gen 6

Designed for seamless multitasking and intelligent performance, this desktop leverages the power of the Intel® Core™ Ultra 7 Processor with up to 20 cores, delivering remarkable speed and efficiency. Integrated Intel® AI Boost with over 10 TOPS accelerates data-driven workflows, helping professionals tackle complex tasks like data analysis or content creation effortlessly. With up to 64GB DDR5 memory, heavy applications run smoothly without lag, while Wi-Fi® 7 ensures ultra-fast, reliable connectivity, perfect for collaborative projects and cloud-based tools that demand uninterrupted bandwidth.



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.

Creative and design professionals benefit from NVIDIA® GeForce RTX™ 6GB graphics, which bring high-quality visuals and rendering to life. With support for up to two independent displays and versatile ports including USB-A, USB-C, DisplayPort, and HDMI, multitasking and presentations become effortless.

Secure and expandable, the desktop offers up to 2TB SSD storage for fast access, along with TPM 2.0 and Kensington® Security Slot™ protection. Optional Smart Cable Clip and chassis intrusion switch add practical safeguards for peace of mind.

With its compact SFF form factor of just 8.2L, the desktop maximizes workspace efficiency, fitting seamlessly into office environments while freeing up valuable desk space without sacrificing performance or functionality for professional tasks.

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 Go Wired Speakerphone

- Microsoft Teams certified, omni-directional far-field 2x microphones array
- Portable plug-and-play capabilities and effortless PC UC support
- Comes with intuitive control with volume wheel, tactile keys, and readable LEDs



PN: 4XD1C82055, GXD1C82051

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Performance

Processor Intel Core Ultra 3 / 5 / 7 Processor (Series 2)
Operating System* Windows 11 Pro or Home Windows 11 Home Single Language Ubuntu Linux No preload operating system
Graphics Intel Arc A310 LP Graphics NVIDIA GeForce RTX 3050 Intel UHD Graphics (integrated)
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
Optical* DVD-ROM or DVD±RW*
Audio* High Definition (HD) Audio Single speaker, 1W x1*
Power Supply* 200W 90% adapter 260W 90% adapter
Design
Form factor SFF (8.2L)
Dimensions 92.5 x 291.7 x 339.5 mm (3.6 x 11.5 x 13.4 inches)
Weight Around 4.33 kg (9.55 lbs)
Color Raven Black

Bays 1x 3.5" disk bay
Expansion Slots One PCIe 4.0 x16, low-profile, length ≤ 155mm, height ≤ 70mm One PCIe 3.0 x1, low-profile, length ≤ 155mm, height ≤ 70mm Three M.2 slots (one for WLAN, two for SSD)
Connectivity
Ethernet* Gigabit onboard Ethernet
WLAN + Bluetooth* 802.11ax (Wi-Fi 6), 802.11ax (Wi-Fi 6E) or 802.11be (Wi-Fi 7), Bluetooth 5.2, 5.3 or 5.4 up to Realtek Wi-Fi 7 RTL8922AE, 802.11be, Bluetooth 5.4
Front ports 1x USB-C (USB 5Gbps / USB 3.2 Gen 1), with 15W charging 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 1.4i x Ethernet (RJ-45) 1x line-out (3.5mm) 1x USB-A (Hi-Speed USB / USB 2.0) 2x USB-A (USB 5Gbps / USB 3.2 Gen 1), via 2-port USB expansion card, PCIe x1 1x parallel 1x serial 1x 2nd serial
Security & Privacy
Security Discrete TPM 2.0 Smart Cable Clip* Kensington Security Slot Padlock Loop Chassis Intrusion Switch*
Manageability
System Management* Non-vPro

Environmental

Material 85% post-consumer content (PCC) recycled acrylonitrile butadiene styrene (ABS) used in the chassis 90% PIC recycled plastic EPE cushion 30% ocean-bound plastic (OBP) used in the device bag Forest Stewardship Council (FSC) certified carton
Lenovo services
Base Warranty Up to 1-year limited onsite service
Certifications
Green Certifications ENERGY STAR 9.0* EPEAT Gold Registered* RoHS / WEEE / REACH
Other Certifications TÜV Rheinland Low Noise* 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.