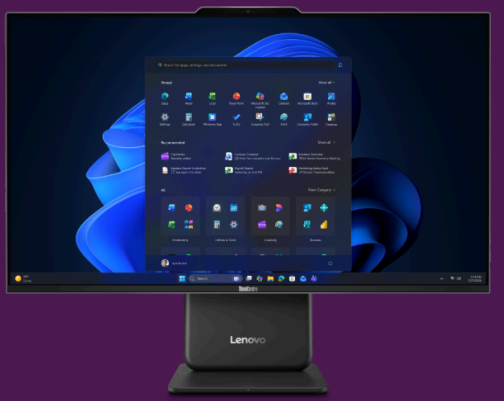


ThinkCentre neo 50a 27 Gen 7

Built to support demanding professional workflows, this 27-inch FHD IPS display delivers 350 nits brightness and 99% sRGB coverage, helping analysts, designers, administrators, and project teams review dashboards, documents, presentations, and visual assets with clarity. Paired with up to an Intel Core 7 Processor (Series 3), Windows 11 Pro or Home, and up to 32GB LPDDR5X-7467 memory, it keeps multitasking responsive across productivity applications. Meanwhile, up to 1TB M.2 SSD storage provides space for business files, reports, and applications across varied professional daily workloads.



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.

For collaboration, the 5.0-megapixel IR camera and dual-microphone array support clearer virtual meetings, while dual 3W speakers with Audio by HARMAN improve communication. Wi-Fi 7 or Wi-Fi 6 and Gigabit Ethernet help teams maintain reliable connectivity for cloud platforms, conferencing, and file sharing.

Across reception, finance, operations, and administration, Intel Graphics supports workloads, while HDMI 2.1 and USB-C and USB-A ports simplify connections to displays and peripherals. ENERGY STAR 9.0 and TÜV Rheinland Ultra Low Noise support workplaces.

A streamlined 27-inch All-in-One design combines essential computing components within a single display, helping reduce desktop clutter. Measuring 539.2 x 172 x 471.8 mm, it creates a cleaner workspace while maintaining a spacious viewing area.

Updated 2026-09-01

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

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

ThinkCentre neo 50a 27 Gen 7

Performance

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

Operating System*
Windows 11 Pro or Home

Graphics
Intel Graphics (integrated)

Chipset
Intel SoC (System on Chip) platform

Memory
Up to 32GB soldered LPDDR5X-7467, not upgradable

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

Audio*
High Definition (HD) Audio
Dual speaker, 3W x2, Audio by HARMAN
Dual-microphone array

Camera*
5.0-megapixel*
5.0-megapixel IR camera*

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

Design

Display
27" FHD (1920x1080) IPS display, Anti-glare 16:9
- 350nits, 99% sRGB, non touch
- 350nits, 99% sRGB, touch

Form factor
AIO (27 inches)

Dimensions
539.2 x 172 x 471.8 mm (21.2 x 6.8 x 18.57 inches)

Weight
4.23 kg (9.31 lbs)

Color
Luna grey

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

Connectivity

Ethernet*
Gigabit 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

Rear ports
1x USB-C (USB 20Gbps / USB 3.2 Gen 2x2)
3x USB-A (USB 10Gbps / USB 3.2 Gen 2)
1x HDMI (HDMI in / HDMI out 2.1 TMDS combo port)
1x Ethernet (GbE RJ-45)

Left ports
1x USB-C (USB 20Gbps / USB 3.2 Gen 2x2), data transfer and power output 5V@3A
1x USB-A (USB 10Gbps / USB 3.2 Gen 2)
1x headphone / microphone combo jack (3.5mm)

Security & Privacy

Security
Firmware TPM 2.0 integrated in SoC
Kensington Security Slot

Lenovo services

Base Warranty
Up to 1-year limited onsite service

Certifications

Green Certifications
ENERGY STAR 9.0*
EPEAT Gold Registered*
ErP Lot 3/7
Low Halogen
RoHS / WEEE / REACH

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.