

ThinkCentre neo 55s Gen 6

Redefine possibilities with the ThinkCentre neo 55s Gen 6, powered by AMD Ryzen™ 200 processors, designed to accelerate performance in today's AI-enhanced workloads. Built on advanced Zen+ architecture, these processors deliver responsive multitasking and impressive efficiency across business applications, including 3D rendering, video encoding, and creative workflows. With cutting-edge connectivity features up to WiFi 7 and Bluetooth 5.4, users can seamlessly create, play, and browse faster while experiencing fewer bottlenecks. The 8.2L space-saving form factor makes it the ideal computing solution for SMBs looking to amplify productivity and scalability in a small footprint.



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.

Stay connected with six strategically placed USB ports, eliminating the need for external hubs. Connect essentials like keyboards and mice to external storage via the Type-A ports, while the high-speed Type-C port ensures fast charging and rapid data transfer. The HDMI 2.1 TMDS and DisplayPort 1.4 provide versatile display compatibility, offering high-resolution output and support for multiple external monitors.

Experience enterprise-grade security with ThinkShield, which safeguards your desktop against cyber threats using advanced hardware-level encryption and proactive malware defense. Smart USB Protection restricts unauthorized data transfers, while BIOS-level I/O port disablement offers secure peripheral access management. Additionally, integrated dTPM 2.0 safeguards sensitive data and strengthens multi-factor authentication, ensuring only authorized users gain access.

The high-speed memory of up to 64GB DDR5 SODIMM 5600MHz reduces data access times and improves overall system responsiveness, making it ideal for professionals juggling multiple applications, large datasets, or cloud-based tools.

Updated 2026-01-21







Accelerate digital transformation

For teams that need a reliable device to manage diverse workloads, this ThinkCentre stands ready. Built for SMBs, it efficiently handles core tasks and tackles even the most complex projects. With up to 4GB AMD Radeon™ RX 6400 or up to 6GB NVIDIA® GeForce™ RTX 3050 discrete GPU alongside an integrated AMD Radeon™ GPU, it renders graphics for everyday tasks, offering ultra-fast responsiveness and superior connectivity for truly immersive experiences.

Powerhouse Performance

Unlock the potential of high-performance storage with support for up to 2TB 2×M.2 2280 SSD. Get quick system startup and smooth performance of business applications, all while contributing to efficient system cooling and quieter operation.

Smart Design

Designed for optimal functionality, the desktop's clean, minimal design embodies sophistication without unnecessary complexity. Its intuitive design allows for use in both horizontal and vertical positions, offering adaptive usability to suit a variety of work environments.

Acoustic Comfort

Certified with TÜV Ultra Low Noise signifies that the desktop meets rigorous standards for sound level, ensuring significantly quieter operation, reducing fatigue, and improving work productivity.

Lenovo Product Portfolio

Built to reduce environmental footprint

Lenovo is making the industry's broadest portfolio of technology solutions more sustainable to help organizations reduce their environmental impact. As a global technology powerhouse, Lenovo is committed to achieving net-zero greenhouse gas emissions by 2050 with targets validated by SBTi.

Recycled or sustainable product materials

Lenovo embraces sustainability by assimilating recycled materials such as post-consumer recycled content (PCC) in its manufacturing processes. Incorporating these materials makes the manufacturing process energy efficient, leading to a decreased carbon footprint and contributing to a circular economy.

- 85% PCC recycled plastic

Recycled shipping/packaging content

Lenovo is innovating to increase energy efficiency and the use of recycled content in our devices. By incorporating post-industrial recycled content and recycled ocean-bound plastic, our packaging provides exceptional protection to the device and significantly minimizes waste, while ensuring it undergoes rigorous testing to ensure low chemical emissions.

- 30% Ocean-bound plastic in packaging
- FSC Certified carton

ENERGY STAR

epeat GOLD

TÜVRheinland CERTIFIED



Product PCC

85% PCC recycled plastic,
30% Ocean-bound plastic
in packaging

Lenovo Premier Support Plus

Lenovo Premier Support Plus offers comprehensive assistance by freeing IT teams from break/fix responsibilities. Its AI-driven predictive issue detection anticipates problems ensuring uninterrupted productivity, while with 24x7 access to experts, remote fixes are seamless. Plus, Accidental Damage handles mishaps and Keep Your Drive ensures security

Asset Recovery Service (ARS)

Lenovo's Asset Recovery Service (ARS) enables secure destruction of data, helps reduce e-waste, and offers a fair market value for your end-of-life IT assets. The service also supports equipment from any manufacturer including PCs & tablets, monitors, servers, phones, printers, copiers and networking equipment.

Lenovo CO2 Offset Service

Lenovo's Co2 Offset Service makes offsetting carbon emissions simple and within the control of the customer. We offset carbon emissions across the average lifecycle associated with each of our devices by providing the option at the point of purchase, supporting the United Nations, Gold Standard®, and Climate Action Reserve.

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..



Premier Support Plus

- Helping IT predict and prevent device downtime
- Elite 24x7 expert support empowers IT and users alike
- AI insights help resolve issues before they impact business

Accessories

Lenovo QHD Webcam

- Adaptive framing, smart focus, clarity
- AI noise-cancelling mic included
- Hassle-free setup and use



PN: 4XC1Q25245

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 55s Gen 6

Performance

Processor
AMD Ryzen 5 / 7 200 Series, or AMD Ryzen AI 5 / 7 300 Series Processor

Operating System*
Windows 11 Pro or Home
Ubuntu Linux

NPU*
Integrated AMD Ryzen AI, up to 50 TOPS

Graphics
AMD Radeon 740M Graphics (Integrated)
AMD Radeon 760M Graphics (Integrated)
AMD Radeon 780M Graphics (Integrated)
AMD Radeon RX 6400 4GB
NVIDIA GeForce RTX 3050 6GB

Chipset
AMD SoC (System on Chip) platform

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

Storage
Up to three drives, 1x 3.5" SATA HDD + 2x M.2 SSD
· 3.5" SATA HDD up to 2TB
· M.2 SSD up to 1TB each

Audio*
High Definition (HD) Audio
Single speaker, 1W x1*

Power Supply*
260W 90% adapter
200W 90% adapter

Design

Form factor
SFF (8.2L)

Dimensions
89 x 274.8 x 336 mm (3.5 x 10.83 x 13.24 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
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, 5.3or 5.4
Up to Intel Wi-Fi 7 RTL8922AE, 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 1.4a (HBR2, DSC)
1x Ethernet (RJ-45)
1x line-out (3.5mm)
1x paralle*
1x serial*
1x 2nd serial*

Security & Privacy

Security
Discrete TPM 2.0
Kensington Security Slot
Coded Lock*
Chassis Intrusion Switch*
Fingerprint Reader*

Environmental

Material
85% post-consumer content (PCC) recycled acrylonitrile butadiene styrene (ABS) used in the chassis
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 1.0 Gold Registered*
RoHS compliant
TCO Certified 10

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.