

ThinkCentre neo 55a 24 Gen 6

Designed to meet the needs of dynamic business environments, the ThinkCentre, powered by the latest AMD Ryzen™ 5 / 7 200 Series or Ryzen™ AI 5 / 7 300 Series processors, delivers the advanced performance and intelligent efficiency that today's business professionals demand. These processors offer exceptional multi-core performance, ideal for multitasking across productivity apps, data-heavy spreadsheets, and collaboration platforms, ensuring users can stay responsive and efficient throughout the workday. Integrated AMD Radeon™ 860M, 740M, or 780M graphics bring superior visual fidelity and acceleration for graphically demanding tasks, seamless video conferencing, and content rendering. With support for up to 32GB DDR5-5600 high-speed memory and up to 1TB M.2 2280 SSD storage, professionals benefit from rapid data access, fast boot times, and a highly responsive experience across applications.



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.

Featuring a crisp 23.8" screen with an FHD display delivers stunning clarity and vibrant visuals, enhancing productivity and reducing eye strain during long workdays. With 250 nits of brightness, the screen ensures clear visibility even in brightly lit office environments, and optional multi-touch functionality offers intuitive, hands-on control for seamless navigation and collaboration.

Whether you're running resource-intensive applications, juggling multiple browser tabs, or engaging in creative endeavors, up to 32GB DDR5-5600 memory and up to 1TB M.2 2280 SSD storage enable smooth transitions and swift responsiveness, without any delays.

The device features 3W dual HARMAN stereo speakers and a dual-microphone array delivering a rich and immersive audio experience whether you're participating in virtual meetings or presenting in online seminars. Additionally, the optional 5MP IR camera with a camera latch delivers sharp video quality while prioritizing user privacy.

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..



Return To Depot Repair Warranty

- No-hassle repair process at a Lenovo service center
- Lenovo pays for all shipping between the customer and service facility
- Avoid unplanned operational expense with a simple annual fee

Accessories

Lenovo Professional Wireless Rechargeable Combo Keyboard and Mouse



- Transform your workspace into a clutter-free, cable-free zone for ultimate productivity.
- The mouse's Optical IR Sensor ensures precise tracking, with 4-way scrolling for smooth, versatile navigation.
- Keyboard layouts are tailored to vary by language, ensuring accessibility and usability for all users.

PN: 4X31K03931 - 4X31K03978

Lenovo Go Wireless Split Keyboard



- Human-inspired true ergonomic split keyboard with tactile and responsive, scissor switch keys
- 13-degrees splay for straight typing, comfortable neck and shoulders
- 11-degrees vertical tenting for more natural typing posture

PN: 4Y41C33748~4Y41C33789

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Performance

Processor AMD Ryzen 5 / 7 200 Series, or AMD Ryzen AI 5 / 7 300 Series Processor
Operating System* Windows 11 Pro Windows 11 Home
NPU* Integrated AMD Ryzen AI, up to 50 TOPS
Graphics AMD Radeon 740M Graphics (Integrated) AMD Radeon 780M Graphics (Integrated) AMD Radeon 840M Graphics (Integrated) AMD Radeon 860M Graphics (Integrated)
Chipset AMD SoC (System on Chip) platform
Memory¹ Up to 32GB DDR5-5600
<i>¹The max memory is based on the test results with current Lenovo memory offerings.</i>
Storage² One drive, up to 1TB M.2 SSD
<i>²The max capacity of each disk type is based on the test results with current Lenovo storage offerings.</i>
Audio* High Definition (HD) Audio Stereo speakers, 3W x2, Audio by HARMAN Dual-microphone array
Camera* 5.0-megapixel* 5.0-megapixel IR camera*
Power Supply* 135W 89% adapter 90W 90% adapter

Design

Display 23.8" FHD (1920x1080) IPS display, Anti-glare 16:9 - 250nits, 99% sRGB, low blue light, flicker free, optional touch
Form factor AIO (23.8 inches)
Dimensions³ 539.5 x 192.1 x 431.17 mm (21.24 x 7.56 x 16.98 inches)
<i>³The system dimensions may vary depending on configurations.</i>
Weight⁴ Around 6.0 kg (13.23 lbs)
<i>⁴The system weight is approximate and may vary depending on configurations</i>
Color Luna grey
Bays No bays
Expansion Slots One M.2 slot (for WLAN) Two M.2 slots (for SSD)
Connectivity
Ethernet* Gigabit onboard Ethernet
WLAN + Bluetooth*⁵⁶ 802.11ax (Wi-Fi 6), Bluetooth 5.3 or Bluetooth 5.4
<i>⁵Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.</i>
<i>⁶Wi-Fi 6 operation is subject to the regulation rules in each country. Bluetooth 5.3/5.4 require the supported Windows OS.</i>

Rear ports 1x USB-A (USB 10Gbps / USB 3.2 Gen 2) 2x USB-A (Hi-Speed USB / USB 2.0) 1x HDMI-in 1.4 1x HDMI-out 2.1 TMDS 1x Ethernet (RJ-45) 1x power connector
Left ports 1x USB-C (USB 10Gbps / USB 3.2 Gen 2), data transfer only 1x headphone / microphone combo jack (3.5mm)

Security & Privacy

Security Kensington Security Slot
Material 65% PCC ABS plastic in chassis 95% PCC ABS with brand closed-loop material in wired keyboard/mouse 90% PIC EPE cushion 30% OBP in bag FSC carton in packaging

Lenovo services

Base Warranty Up to 1-year limited onsite service

Certifications

Green Certifications⁸⁹ ENERGY STAR 9.0* EPEAT Gold Registered* ErP Lot 3/7 GREENGUARD RoHS / WEEE / REACH
<i>⁸The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.</i>
<i>⁹EPEAT is registered where applicable, please see epeat.net for registration status by country.</i>
Other Certifications TÜV Rheinland Flicker Free TÜV Rheinland Low Blue Light 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. © 2025 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.