

DTLE12SA003USA

Lenovo Neo 50a G5 27" Full HD AIO PC, Core 7 240H 5.2GHz, 16GB RAM, 512GB SSD, Win 11 Pro

Product Overview

Lenovo ThinkCentre Neo 50a 27 Gen 5 27" IPS Full HD 1920x1080 AIO PC, Intel Core 7 240H Ten 10x Core Raptor Lake Turbo boost up to 5.2GHz 24MB L3 Cache Processor with Intel Graphics (6 performance Cores & 4 efficient), 16GB DDR5-5200 Memory, 2x DDR5 SO-DIMM slots, 512GB M.2 PCI-e Solid State Drive, USB Keyboard & Mouse, Wi-Fi 6, Bluetooth, Windows 11 Pro 64bit, 3W x2 Speakers, 135W 90% Adapter Power Supply, Full HD (1920x1080) IPS Anti-Glare 300nits 99% sRGB Display, 1x USB Type-A (USB 10Gbps / USB 3.2 Gen 2), 2x USB Type-A (Hi-Speed USB / USB 2.0), 1x HDMI in 1.4, 1x HDMI out 2.1 TMDS, 1x Ethernet (RJ-45), 1x USB-C (USB 10Gbps / USB 3.2 Gen 2) Data transfer only (Side), 1x Headphone / microphone combo jack (3.5mm) (Side)





Specifications

Overview Summary:

The Lenovo ThinkCentre Neo 50a 27 Gen 5 All-in-One PC delivers a clean, space-saving design combined with strong performance for modern work environments. Powered by an Intel Core 7 processor with 16GB DDR5 memory and a fast 512GB SSD, it handles multitasking, office applications, and daily business workloads with ease. The 27-inch Full HD IPS display provides clear visuals and wide viewing angles, making it suitable for both productivity and media use.

Designed for efficiency and reliability, this AIO desktop includes Wi-Fi 6 connectivity, integrated graphics, and Windows 11 Pro for a secure and professional computing experience. Its minimal cable setup and included wireless keyboard and mouse make it ideal for streamlined workspaces. Whether upgrading your office or setting up a home workstation, this system is ready to perform-buy now and enjoy dependable computing.

Performance tier:Mid-to-high performance business desktop

Uses:office productivity, remote work, business applications, web browsing, video conferencing, light content creation

Overview:

Lenovo ThinkCentre Neo 50a 27 Gen 5 All-in-One PC Review and Key Details

The Lenovo ThinkCentre Neo 50a 27 Gen 5 is designed for professionals and businesses that want a clean, space-saving desktop without compromising on performance. Built around a modern Intel Core 7 processor and a large 27 inch Full HD display, this all-in-one system integrates computing power, display, and connectivity into a single streamlined unit.

With its slim Luna Grey chassis and minimal cabling, it fits naturally into office environments, reception areas, and home workspaces. The combination of DDR5 memory, fast NVMe storage, and Wi-Fi 6 ensures responsive multitasking and reliable connectivity for everyday productivity workloads.

Description:

The Lenovo ThinkCentre Neo 50a 27 Gen 5 delivers a balance of performance and simplicity in an all-in-one form factor. Powered by a 10-core Intel Core 7 processor with hybrid architecture, it handles office applications, multitasking, and light creative work with ease. The 27 inch IPS display offers clear visuals with accurate color reproduction, while built-in speakers, camera, and wireless peripherals create a complete out-of-the-box workstation. With fast SSD storage, modern connectivity including USB-C and HDMI, and business-ready Windows 11 Pro, it is a practical solution for users who need efficiency, reliability, and a clutter-free desk setup.

Features:**Performance and Processing Power**

At the core of this system is the Intel Core 7 240H processor, built on a hybrid architecture with 6 performance cores and 4 efficiency cores. This configuration allows the system to dynamically balance demanding tasks and background processes.

Key performance highlights include:

- Up to 5.2GHz turbo boost for fast application response
- 16 threads for improved multitasking efficiency
- 24MB Intel Smart Cache for smoother data access
- Integrated Intel graphics suitable for business visuals and media tasks

This setup is well suited for office productivity, web-based tools, and moderate multitasking scenarios.

Memory and Storage Configuration

The system is equipped with modern, high-speed components that support smooth day to day operation.

- 16GB DDR5-5200 memory installed
- Dual SO-DIMM slots with support up to 32GB
- 512GB PCIe 4.0 NVMe SSD for fast boot and load times
- Supports up to 1TB M.2 SSD storage

This configuration ensures quick file access, responsive system behavior, and room for future upgrades.

27 Inch Full HD IPS Display

The 27 inch IPS panel delivers a comfortable viewing experience for extended use. Its anti glare coating reduces reflections, making it suitable for bright office environments.

Display characteristics:

- Full HD resolution of 1920x1080
- 300 nits brightness for clear visibility
- 99 percent sRGB coverage for accurate color output
- Wide viewing angles typical of IPS panels

This makes it appropriate for office tasks, presentations, and general multimedia use.

Connectivity and Expansion Options

The ThinkCentre Neo 50a 27 Gen 5 offers a practical selection of ports for modern workflows.

- 1x USB-A 3.2 Gen 2 (10Gbps)
- 2x USB-A 2.0
- 1x USB-C 3.2 Gen 2 (side, data and 15W charging)
- 1x HDMI in 1.4
- 1x HDMI out 2.1 TMDS
- 1x Ethernet RJ-45
- 1x 3.5mm combo audio jack

Wireless connectivity includes Wi-Fi 6 and Bluetooth 5.2, ensuring stable and fast connections for peripherals and networking.

Integrated Features for Everyday Use:

This all-in-one system includes essential built-in components, reducing the need for additional accessories.

- 5MP camera for video conferencing

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Product Specification Sheet

- Dual array microphones for clearer voice capture
- Dual 3W speakers for everyday audio
- Wireless keyboard and mouse included

These elements make it suitable for remote work, meetings, and collaborative environments.

Design and Build

The minimalist design emphasizes efficiency and space saving. Its all-in-one structure reduces cable clutter while maintaining a professional appearance.

- Color: Luna Grey
- Form factor: 27 inch all-in-one desktop
- Dimensions: 611.72 x 192 x 473.16 mm
- Weight: approximately 7.1 kg

This makes it easy to integrate into both corporate and home office environments.

Security and System Environment

For business users, the system includes baseline security measures and a professional operating system.

- Firmware TPM 2.0 for data protection
- Kensington security slot for physical locking
- Windows 11 Pro for business and productivity tools

These features help support secure workflows in office environments.

Technical Summary

- Product: Lenovo ThinkCentre Neo 50a 27 Gen 5
- Part Number / SKU: NEO 50a 12SA003USA
- Processor: Intel Core 7 240H (10 core, 16 thread)
- Memory: 16GB DDR5-5200
- Storage: 512GB PCIe NVMe SSD
- Display: 27 inch Full HD IPS anti glare
- Graphics: Integrated Intel Graphics
- Connectivity: Wi-Fi 6, Bluetooth 5.2, Ethernet
- Operating System: Windows 11 Pro

Who This System Is Best For

This model is well suited for:

- Office professionals needing a clean, all-in-one setup
- Businesses deploying multiple workstations
- Remote workers requiring integrated video and audio
- Users who prioritize desk space and simplicity

With SKU NEO 50a 12SA003USA, the ThinkCentre Neo 50a 27 Gen 5 positions itself as a practical and efficient desktop alternative that combines modern hardware with a streamlined design.

Specifications:

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Product Specification Sheet

Specifications	
Product Code	DTLE12SA003USA
ThinkCentre neo 50a 27 Gen 5	
Model	12SA003USA
PERFORMANCE	
Processor	Intel Core 7 240H, 10C (6P + 4E) / 16T, P-core 2.5 / 5.2GHz, E-core 1.8 / 4.0GHz, 24MB Intel Smart Cache
Graphics	Integrated Intel Graphics
Chipset	Intel SoC Platform
Memory	1x 16GB SODIMM DDR5-5200
Memory Slots	Two DDR5 SODIMM slots, dual-channel capable
Max Memory	Up to 32GB DDR5-5200
Storage	512GB SSD M.2 2280 PCIe 4.0x4 NVMe
Max Storage Support	One drive, up to 1TB M.2 2280 SSD
Card Reader	No card reader
Optical	None
Audio Chip	High Definition (HD) Audio, Realtek ALC233-CG codec
Speakers	3Wx2
Camera	5.0MP
Microphone	2x, Array
Power Supply	90W 89% Adapter
DESIGN	
Display	27" FHD (1920x1080) IPS Anti-glare 300nits, 99% sRGB
Touchscreen	None
Keyboard	EOS Wireless Keyboard, Black, English (EU)
Mouse	Wireless EOS Mouse, black
Expansion Slots	Two M.2 slots (one for WLAN, one for SSD)
Case Color	Luna Grey
Stand	Monitor Stand
Mounting	None
Wireless Charger	No Wireless Charger
Pen	Pen Not Supported
Form Factor	AIO (27 inches)
Dimensions (WxDxH)	611.72 x 192 x 473.16 mm (24.08 x 7.55 x 18.62 inches)
Weight	Around 7.1 kg (15.65 lbs)
CONNECTIVITY	
WLAN + Bluetooth	Intel Wi-Fi 6 AX201, 802.11ax 2x2 + BT5.2

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Product Specification Sheet

WWAN	WWAN Not Supported
Ethernet	Integrated 100/1000M
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 and 15W charging
	1x headphone / microphone combo jack (3.5mm)
SECURITY & PRIVACY	
Security Chip	Firmware TPM 2.0 integrated in SoC
Physical Locks	Kensington Security Slot , 3 x 7 mm
Chassis Intrusion Switch	No chassis intrusion switch
MANAGEABILITY	
System Management	None
CERTIFICATIONS	
Green Certifications	ErP Lot 3/7
	GREENGUARD
	RoHS / WEEE / REACH
Other Certifications	TÜV Rheinland Flicker Free
	TÜV Rheinland Low Blue Light
	TÜV Rheinland Ultra Low Noise
SOFTWARE	
Operating System	Windows 11 Pro, English
Bundled Software	None
MODEL INFORMATION	
Model	12SA003USA
Machine Type	12SA
Region	MEA
Country/Region	South Africa
TopSeller	Yes
EAN / UPC / JAN	198158729628
Announce Date	2025-04-05
End of Support	2031-03-30

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/DTLE12SA003USA-Lenovo-Neo-50a-G5-27-Full-HD-AIO-PC-Buy-p-336299.php>

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