ComX Computers
Product Specification Sheet

NEO 50a 12SC008YSA

Lenovo Neo 50a G5 23.8" Full HD AIO PC, Core 5 210H 4.8GHz, 16GB RAM, 512GB SSD, Win 11 Pro

Product Overview

Lenovo ThinkCentre Neo 50a 24 Gen 5 23.8" IPS Full HD 1920x1080 AIO PC, Intel Core 5 210H Eight 8 Core Raptor Lake Turbo boost up to 4.8GHz 12MB L3 Cache Processor with Intel Graphics (4 perfomance 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, 90W 89% Adapter Power Supply, Full HD (1920x1080) IPS Anti-Glare 250nits 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 and 15W charging (Front), 1x Headphone / Microphone Combo JACK(3.5mm) (Front)











1. USB-C® (USB 10Gbps), data transfer only	7. USB-A (Hi-Speed USB)
2. Headphone / microphone combo jack (3.5mm)	8. USB-A (USB 10Gbps)
3. HDMI®-in 1.4	9. HDMI®-out 2.1 TMDS
4. Power-in	10. Power button
5. USB-A (Hi-Speed USB)	11. Camera shutter latch
6. Ethernet (RJ-45)	

Specifications

Overview Summary:

The Lenovo ThinkCentre Neo 50a 24 Gen 5 is a streamlined all-in-one desktop designed for efficient performance in modern workspaces. Powered by an Intel Core 5 processor, 16GB DDR5 memory, and a fast 512GB SSD, it delivers reliable speed and responsiveness for multitasking, office applications, and business workflows. The 23.8-inch Full HD IPS display offers clear visuals with anti-glare technology, making it ideal for extended daily use.

With built-in Wi-Fi 6, Bluetooth, and Windows 11 Pro, this AIO PC is ready for professional environments and home offices alike. Its clean, space-saving design reduces clutter while maintaining full desktop capability. Whether upgrading your workspace or setting up a new workstation, this is a dependable solution-shop now and enhance your productivity with a powerful all-in-one PC.

Performance tier: Mid-range business productivity

Uses:office work, remote work, business applications, multitasking, home office computing, administrative tasks

Overview:

The Lenovo ThinkCentre Neo 50a 24 Gen 5 is a streamlined all-in-one desktop designed for modern workspaces that prioritize efficiency, clean design, and dependable performance. Built around Intel's latest hybrid architecture, it delivers a balanced mix of power and responsiveness for everyday business tasks, multitasking, and content handling. Its compact 23.8 inch form factor reduces desk clutter while still offering a full desktop experience, making it suitable for offices, reception areas, and home workstations.

Description:

This all-in-one PC integrates performance, display, and connectivity into a single, space-saving unit. Powered by an Intel Core 5 processor with a combination of performance and efficiency cores, it handles multitasking with ease while maintaining energy efficiency. The Full HD IPS display ensures consistent visuals with accurate color reproduction, while fast DDR5 memory and NVMe storage contribute to quick system responsiveness. With built-in Wi-Fi 6, Bluetooth, and a variety of ports, it supports modern connectivity needs without additional hardware. The inclusion of Windows 11 Pro enhances productivity with enterprise-grade tools and security.

Features:

Performance built for everyday productivity

At the core of the system is the Intel Core 5 210H processor, featuring 8 cores and 12 threads. The hybrid structure combines 4 performance cores and 4 efficient cores, enabling smooth multitasking and optimized workload distribution. With turbo boost speeds reaching up to 4.8GHz, users can expect responsive performance across office applications, web-based tools, and light creative tasks.

Memory and storage are configured to keep workflows efficient. A 16GB DDR5-5200 module ensures fast data handling, while the 512GB PCIe Gen4 NVMe SSD provides rapid boot times and quick access to files and applications.

Key performance highlights

- Intel Core 5 210H processor with hybrid core design
- 16GB DDR5 memory with support for up to 32GB
- 512GB PCIe 4.0 NVMe SSD for fast storage performance
- Integrated Intel graphics for daily visual workloads

Immersive display in a compact design

The 23.8 inch Full HD IPS display offers clear visuals and wide viewing angles, making it suitable for both individual and collaborative use. Anti-glare technology reduces reflections, improving comfort during extended sessions, while 99 percent sRGB coverage ensures accurate color representation for general media and design tasks.

Its slim profile and Luna Grey finish provide a professional aesthetic that blends into most environments without taking up excessive space.

Display and design essentials

- 23.8 inch IPS panel with 1920 x 1080 resolution
- Anti-glare coating with 250 nits brightness
- 99 percent sRGB color accuracy
- Space-saving all-in-one form factor

Connectivity that supports modern workflows

The system is equipped with a practical selection of ports to accommodate peripherals, displays, and network connections. Front and rear access points allow flexibility depending on usage scenarios, whether connecting external drives, headsets, or additional monitors.

Connectivity highlights

- USB-C with 10Gbps transfer and 15W charging support
- Multiple USB-A ports for accessories and legacy devices
- HDMI in and HDMI out for display expansion
- Ethernet port for stable wired networking
- Wi-Fi 6 and Bluetooth 5.2 for wireless connectivity

Integrated collaboration tools

Built-in components support communication and collaboration without requiring external accessories. A 5MP camera and dual array microphones provide clear video and audio for meetings, while stereo speakers enhance multimedia and conferencing experiences.

Audio and camera setup

- 5MP integrated camera
- Dual array microphones
- 3W dual speakers with HD audio

Security and operating system advantages

Security is addressed through firmware-based TPM 2.0 and a Kensington lock slot for physical protection. The system runs on Windows 11 Pro, offering advanced management tools, enhanced security features, and productivity-focused enhancements suitable for professional environments.

Technical snapshot

- Model: 12SC008YSA
- Part Number / SKU: DTLE12SC008YSA
- Processor: Intel Core 5 210H (8 cores, 12 threads)
- Memory: 16GB DDR5-5200 (expandable to 32GB)
- Storage: 512GB M.2 PCIe 4.0 NVMe SSD
- Graphics: Integrated Intel graphics
- Display: 23.8 inch Full HD IPS
- Operating System: Windows 11 Pro
- Wireless: Wi-Fi 6 and Bluetooth 5.2

Form factor and usability
With its all-in-one construction, the ThinkCentre Neo 50a 24 Gen 5 minimizes cable clutter and simplifies setup. The included USB keyboard and mouse allow immediate deployment, while its manageable footprint makes it a practical choice for both corporate environments and home offices.

For buyers referencing inventory or procurement, this configuration is identified under Part Number DTLE12SC008YSA, aligned with the 12SC008YSA model designation.

Specifications:

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Specifications	
Product Code	NEO 50a 12SC008YSA
ThinkCentre neo 50a 24 Gen 5	
Model	12SC008YSA
PERFORMANCE	
Processor	Intel Core 5 210H, 8C (4P + 4E) / 12T, P-core 2.2 / 4.8GHz, E-core 1.6 / 3.6GHz, 12MB 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	23.8" FHD (1920x1080) IPS Anti-glare 250nits, 99% sRGB
Touchscreen	None
Keyboard	USB Calliope Keyboard, Black, English (EU)
Mouse	USB Calliope 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
Form Factor	AIO (23.8 inches)
Dimensions (WxDxH)	540 x 192 x 431 mm (21.25 x 7.56 x 16.97 inches)
Weight	Around 6.0 kg (13.23 lbs)
CONNECTIVITY	
WLAN + Bluetooth	Intel Wi-Fi 6 AX201, 802.11ax 2x2 + BT5.2
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	12SC008YSA
Machine Type	12SC
Region	MEA
Country/Region	South Africa
TopSeller	Yes
EAN / UPC / JAN	199272459712
Announce Date	2025-08-05
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/NEO-50a-12SC008YSA-Lenovo-Neo-50a-G5-23-8-Full-HD-AIO-PC-Core-5-210H-4-8GHz-16GB-p-336397.php

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