ComX Computers
Product Specification Sheet

13B90059SA

Lenovo ThinkCentre Neo 50q G5 Tiny PC, Core 5 210H 4.8GHz, 16GB RAM, 512GB SSD, Win 11 Pro

Product Overview

Lenovo ThinkCentre Neo 50q G5 Tiny 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 DDR5-5600 Memory, 512GB M.2 PCI-e Solid State Drive, Wi-Fi 6E, Bluetooth, USB Keyboard & Mouse, Windows 11 Pro 64 Bit, 2W x1 Speakers, 90W 89% Adapter Power Supply, 2x USB-C (USB 10Gbps / USB 3.2 Gen 2) (Front), 1x Headphone / Microphone Combo jack (3.5mm) (Front), 2x USB Type-A (Hi-Speed USB / USB 2.0), 2x USB Type-A (USB 10Gbps / USB 3.2 Gen 2), 1x HDMI 2.1 TMDS, 1x DisplayPort 1.4b, 1x Ethernet (GbE RJ-45), 13B90059SA











Notes:
*1. Items with * are only available on selected models*

1. headphone / microphone combo jack (3.5mm)	8. HDMI® 2.1 TMDS
2. USB-C® (USB 10Gbps), data transfer and 5V@3A charging	9. USB-A (Hi-Speed USB), with Smart Power On
3. USB-A (USB 10Gbps), Always On and 5V@2.1A charging	10. USB-A (Hi-Speed USB)
4. Power button	11. USB-A (USB 10Gbps)
5. Power-in	12. Ethernet (1GbE, RJ-45)
6. DisplayPort™ 1.4b	13. Punch out port*
7. USB-A (USB 10Gbps)	

Specifications

Overview Summary:

The Lenovo ThinkCentre Neo 50q Gen 5 is a compact Tiny PC built for reliable business and everyday computing. Powered by an Intel Core 5 210H processor, 16GB DDR5 memory and a 512GB NVMe SSD, it delivers responsive performance for multitasking, productivity and professional workloads. Windows 11 Pro is included, along with a USB keyboard and mouse.

Its space-saving 1L design makes it a practical choice for offices, home workspaces and commercial environments where desk space matters. With Wi-Fi 6E, Bluetooth, USB-C, HDMI, DisplayPort and Gigabit Ethernet connectivity, it is ready to fit into a modern setup. Buy now or shop now for a powerful and compact Lenovo desktop PC in South Africa.

Performance tier: Mid-range business productivity

Uses: Office productivity, business applications, multitasking, remote work, web browsing, email, point-of-sale systems, digital signage

Overview:

The Lenovo ThinkCentre Neo 50q Gen 5 is a compact business desktop PC designed to provide dependable everyday performance in a space-saving format. Powered by an Intel Core 5 210H processor with 8 cores and up to 4.8GHz Turbo Boost, it handles office applications, multitasking, web-based workloads and general business computing with ease. With 16GB of DDR5-5600 memory and a fast 512GB PCIe 4.0 NVMe SSD, the system provides responsive performance and quick access to files and applications. Integrated Intel Graphics, Wi-Fi 6E, Bluetooth and Windows 11 Pro make this tiny PC a practical choice for modern office environments.

Description:

The Lenovo ThinkCentre Neo 50q Gen 5 combines compact dimensions with capable business-class hardware. Its Intel Core 5 210H processor uses 4 performance cores and 4 efficient cores with 12 threads, allowing the PC to balance responsiveness and power efficiency across different workloads. The 512GB PCIe 4.0 NVMe SSD provides fast storage performance, while 16GB DDR5-5600 memory supports smooth multitasking.

Its small black chassis is well suited to desks where space is limited. The system also includes a USB keyboard and mouse, integrated speakers, wireless connectivity and Windows 11 Pro, providing a ready-to-use desktop solution for business and professional users.

Features:

Lenovo ThinkCentre Neo 50q Gen 5 Performance
The Intel Core 5 210H delivers a maximum P-core Turbo frequency of up to 4.8GHz, with 8 cores made up of 4 performance cores and 4 efficient cores. With 12 threads and 12MB of Intel Smart Cache, the processor is suited to office productivity, communication, browser-based applications, document management and everyday multitasking.

Integrated Intel Graphics handle standard display and business computing requirements without the need for a dedicated graphics card.

Fast 16GB DDR5 Memory and 512GB SSD
The ThinkCentre Neo 50q Gen 5 comes with 16GB of DDR5-5600 SODIMM memory, providing a strong foundation for running multiple applications at the same time. Storage is handled by a 512GB M.2 2280 PCIe 4.0x4 NVMe SSD, helping the system start quickly and providing responsive application and file access.

Key hardware includes:

- Intel Core 5 210H processor
- 8 cores, 12 threads
- 4 performance cores and 4 efficient cores
- Up to 4.8GHz P-core Turbo Boost
- 12MB Intel Smart Cache
- 16GB DDR5-5600 SODIMM memory
- 512GB M.2 2280 PCIe 4.0x4 NVMe SSD
- Integrated Intel Graphics

Compact Business Desktop Design
The ThinkCentre Neo 50q Gen 5 is built around a compact black chassis, making it suitable for offices, reception desks, workstations and other environments where desktop space is limited. Its small form factor can also make it easier to position behind or alongside a monitor while keeping the workspace tidy.

Connectivity for Modern Workplaces
Despite its compact design, the Lenovo ThinkCentre Neo 50q Gen 5 provides a useful selection of wired and wireless connectivity. Wi-Fi 6E and Bluetooth provide convenient wireless connections, while the integrated Gigabit Ethernet port supports wired network connectivity.

The available ports include:

- 2x USB-C with USB 10Gbps / USB 3.2 Gen 2 on the front
- 2x USB Type-A USB 2.0 ports
- 2x USB Type-A USB 10Gbps / USB 3.2 Gen 2 ports
- 1x 3.5mm headphone / microphone combo jack
- 1x HDMI 2.1 TMDS
- 1x DisplayPort 1.4b
- 1x Gigabit Ethernet RJ-45

The HDMI 2.1 TMDS and DisplayPort 1.4b outputs allow the PC to connect to compatible monitors and displays, making it suitable for standard single- or multi-display office setups.

Windows 11 Pro Business PC
Windows 11 Pro provides a familiar operating environment for business users, with support for professional productivity and management requirements. The system is supplied with English-language Windows 11 Pro 64-bit.

The included USB keyboard and mouse, integrated 2W speaker and 90W 89% power adapter help provide a complete desktop setup without requiring additional basic peripherals.

Part Number and Model
The model is the Lenovo ThinkCentre Neo 50q Gen 5, with part number / SKU 13B90059SA. This identifier can be used when checking product compatibility, ordering or matching the system to a specific Lenovo configuration.

Technical Details

- Model: Lenovo ThinkCentre Neo 50q Gen 5
- Part Number / SKU: 13B90059SA
- Processor: Intel Core 5 210H
- Processor configuration: 8 cores, 12 threads
- Performance cores: 4
- Efficient cores: 4
- Maximum P-core frequency: Up to 4.8GHz
- Maximum E-core frequency: Up to 3.6GHz
- Cache: 12MB Intel Smart Cache
- Memory: 16GB DDR5-5600
- Storage: 512GB M.2 2280 PCIe 4.0x4 NVMe SSD
- Graphics: Integrated Intel Graphics
- Operating system: Windows 11 Pro 64-bit, English
- Wireless: Wi-Fi 6E
- Bluetooth: Yes
- Ethernet: Gigabit Ethernet RJ-45
- Speakers: 2W x1
- Power adapter: 90W, 89% efficiency
- Chassis colour: Black

A Practical Tiny PC for Business and Office Use
The Lenovo ThinkCentre Neo 50q Gen 5 offers a strong combination of compact design, modern Intel processing, fast DDR5 memory and PCIe 4.0 NVMe storage. Its broad selection of ports and wireless connectivity makes it easy to integrate into existing office environments, while Windows 11 Pro provides a professional operating platform.

For businesses looking for a small desktop PC that can handle everyday productivity, administration, communication and general office workloads without taking up significant desk space, the ThinkCentre Neo 50q Gen 5 is a practical solution.

Specifications:

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Specifications	
Product Code	13B90059SA
ThinkCentre neo 50q Gen 5	
Model	13B90059SA
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 DDR5-5600
Memory Slots	Two DDR5 SODIMM slots, dual-channel capable
Max Memory	Up to 64GB DDR5-5600
Storage	512GB SSD M.2 2280 PCIe 4.0x4 NVMe
Max Storage Support	Up to two drives, 2x M.2 SSD M.2 SSD up to 1TB each
RAID Preset	None
Card Reader	No card reader
Optical	None
Audio Chip	High Definition (HD) Audio, Realtek ALC256 codec
Speakers	2Wx1
Camera	No camera
Microphone	No microphone
Power Supply	90W 89% Adapter
DESIGN	
Keyboard	USB, Calliope, Black, English (EU)
Mouse	USB Calliope Mouse, Black
Optional Bay	None
Expansion Slots	Three M.2 slots (one for WLAN, two for SSD)
Case Color	Black
Stand	None
Adapter Cage	None
Toolless Chassis Screw	Toolless Chassis Screw
Mounting	VESA Mount
IO Box	No IO box
Pen	Pen Not Supported
Form Factor	Tiny (1L)
Dimensions (WxDxH)	Tiny only (without rubber feet) , 179 x 182.9 x 34.5 mm (7.05 x 7.2 x 1.36 inches)
	Tiny only (with rubber feet) , 179 x 182.9 x 36.5 mm (7.05 x 7.2 x 1.44 inches)
Weight	Around 1.13 kg (2.49 lbs)
CONNECTIVITY	
WLAN + Bluetooth	Intel Wi-Fi 6E AX211, 802.11ax 2x2 + BT5.3
WWAN	WWAN Not Supported
Ethernet	Integrated 100/1000M

Front Ports	1x USB-C (USB 10Gbps / USB 3.2 Gen 2), with data transfer and 5V@3A charging
	1x USB-A (USB 10Gbps / USB 3.2 Gen 2), with Always On and 5V@2.1A charging
	1x headphone / microphone combo jack (3.5mm)
Rear Ports	2x USB-A (Hi-Speed USB / USB 2.0), one supports Smart Power On
	2x USB-A (USB 10Gbps / USB 3.2 Gen 2)
	1x HDMI 2.1 TMDS
	1x DisplayPort 1.4b
	1x Ethernet (GbE RJ-45)
	1x Power connector
Optional Rear Ports (configured)	None
Monitor Cable	None
SECURITY & PRIVACY	
Security Chip	Discrete TPM 2.0, TCG certified, FIPS 140-2 certified
Fingerprint Reader	No fingerprint reader
Physical Locks	Kensington Security Slot , 3 x 7 mm
Chassis Intrusion Switch	Chassis Intrusion Switch
MANAGEABILITY	
System Management	Non-vPro
SERVICE	
Included Upgrade	3Y Onsite upgrade from 1Y Onsite
CERTIFICATIONS	
Green Certifications	ENERGY STAR 9.0
	EPEAT Gold Registered
	RoHS compliant
	TCO Certified, generation 10
Mil-Spec Test	MIL-STD-810H:2022 military test passed (Solar Radiation 505.7, Salt Fog 509.8, Contamination by fluids 504.3)
SOFTWARE	
Operating System	Windows 11 Pro, English
Bundled Software	None
ACCESSORIES	
Bundled Accessories	None
MODEL INFORMATION	
Model	13B90059SA
Machine Type	13B9
Region	MEA
Country/Region	South Africa

TopSeller	Yes
EAN / UPC / JAN	199272439479
Announce Date	2025-08-04
End of Support	2031-11-29

Product Information Online

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

Product page:
https://www.comx.co.za/13B90059SA-Lenovo-ThinkCentre-Neo-50q-G5-Tiny-PC-Core-5-210H-4-8GHz-16GB-RAM-512GB-p-339989.php

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