Lenovo
ThinkCentre

It matters
how you
deliver business
productivity

**Lenovo ThinkCentre neo 50q datasheet
1L Tiny form factor desktop**

Version 1.0 | March 2023

intel CORE i5

Powered by up to
13th Gen Intel® Core™ i5 processor

Smarter
technology
for all

Lenovo

Compact yet powerful to handle anything

New processing platforms have pushed the desktop market into interesting, ever-shrinking dimensions. As a result, devices shrink with every generation and still have the power to deliver the performance that businesses require. Introducing Lenovo ThinkCentre neo 50q Gen 4, a Tiny form factor desktop for businesses. Built on the latest 13th Gen Intel® Core™ H-Series mobile processors, it pairs perfectly with most business needs—from data crunching to more everyday tasks.

Stand out from the rest

Essential business productivity: device performance matters in business, but the space a device takes up is equally important, especially in small businesses where space is at a premium. ThinkCentre neo 50q Gen 4 meets these demands with the all-new up to **13th Gen Intel® Core™ i5 H-Series mobile processor and Intel® UHD graphics** in a Tiny **1L form factor.** Connectivity is also improved, with multiple USB ports, HDMI, audio, and LAN ports. The **BTB punch-out** option lets users choose a custom port for an extra DP, VGA or COM port as needed. ThinkCentre neo 50q helps businesses and enterprises with Windows 11, to simplify their workspaces while supporting immersive, productive user experiences in today's work environments.

Robust memory: a powerful, fast device is vital for businesses. Downtime can negatively affect its perception among clients and employees too. ThinkCentre neo 50q features up to 1TB blazing-fast SSD storage, paired with up to 1TB HDD storage, so space is never an issue. Up to **32GB of DDR4 SODIMM memory** ensures the system starts smoothly and quickly. Apps open near-instantaneously, relieving the frustration of slow starts and endless waiting for app launches.

Extensive security: security is paramount for modern devices. ThinkCentre neo 50q addresses this with robust round-the-clock security. **ThinkShield** is a comprehensive suite of security features that keep business devices protected from the chip and BIOS level to every endpoint deployed. ThinkShield covers hardware, software, network & connectivity, location, and more under its protective umbrella. Besides protecting physical security, ThinkShield includes device backup & recovery, remote management, and more in a modular, easily deployable version compatible with all Lenovo devices.
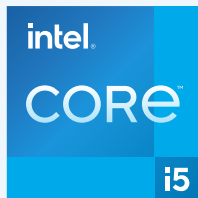
For eco-conscious businesses: sustainability is a keyword for businesses, especially in terms of longevity. The chassis on the ThinkCentre neo 50q is made of Post-Consumer Recycled Content and low Halogen inclusion in its construction. It also carries numerous eco-friendly certifications, such as **Energy Star® 8.0, EPEAT™ Gold and Silver, TCO 9.0, TÜV Low Noise, VOC certification, ErP Lot3,** and more. Overall, ThinkCentre neo 50q leaves a smaller carbon footprint in size and environmental impact. ThinkCentre neo 50q features a front bezel with hidden ventilation.

Why buy ThinkCentre neo 50q Gen 4

Space-saving and cost-saving: ThinkCentre neo 50q delivers an impeccable productivity experience, without negatively impacting office space or business overheads. Its Tiny form factor takes up little room with its **1L size**. It is also competitively priced, making it suited for startups and small and medium businesses.

Flexibility: ThinkCentre neo 50q is an incredibly versatile device. Its powerful processor handles complex and volume-heavy tasks with ease. Its numerous ports allow it to work in multiple dimensions – making presentations, showcasing visual work, connecting to other devices, and securely transferring data. Additionally, the optional BTB port lets purchasers decide on an extra port, customizing it to their needs. **Wi-Fi 6** makes connecting with teams and clients a hassle-free experience and allows large data transfers across the internet.

Purposeful: ThinkCentre neo 50q is a full-fledged Windows platform PC meant for easy deployment for businesses across the globe as an easily scalable solution with a minimal footprint.

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Recommended accessories

Vertical Stand
PN: SM10Z42055

This innovative, elegant stand is designed with a small dip angle in front for ease of use. The Vertical Stand also minimizes vibration and noise while maximizing thermal performance.

ThinkCentre Tiny Power Cage II
PN: 4XH0N23158

ThinkCentre Tiny Power Cage II is a mounting solution that provides an efficient and secure Power adapter mounting solution for your Tiny PC.

ThinkCentre Tiny Vesa Mount II
PN: 4XF0N03161

The ThinkCentre Tiny VESA Mount II is uniquely designed to house the ThinkCentre neo 50q. This versatile mount device can be used separately or combined with other options for a secure mounting functionality.

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Performance

Processor
13th Gen Intel® Core™ i5 13420H processor
12th Gen Intel® Core™ i3 1215U processor

Operating System
Windows 11 Pro
Windows 11 Home
Windows 11 (Downgradable to Windows 10 Pro)

Memory
Up to 32GB DDR4, 2 x SODIMM

Storage
Up to 1TB SSD
Up to 1TB HDD (7200 RPM)

Graphics
Intel® UHD Graphics

PSU
65W[1]/90W adaptor

Connectivity

WLAN
Up to Wi-Fi 6
Bluetooth 5.2[2]

Expansion slot
1 x M.2 for PCIe SSD
1 x M.2 for WLAN

Front I/O ports
1 x USB 3.2 Gen2
1 x USB 3.2 Gen2 (Type-C)
1 x Combo audio

Rear I/O ports
1 x LAN (RJ45)
2 x USB 3.2 Gen2
2 x USB 2.0
1 x HDMI 2.1 TMDS
1 x DP 1.4b (DP, VGA, COM)

Internal bay
1 x SATA 3.0

Design

Form factor
1 Liter Tiny form factor

Dimensions (D x H x W)
Packed w/stand
500 x 140 x 262mm
19.69 x 5.51 x 10.31 inch
Unpacked w/stand
182.9 x 179 x 36.5mm
7.2 x 7.05 x 1.44 inch

Weight
Packed
5.18kg/11.43lbs.
Unpacked
1.113kg/2.45lbs.

Color
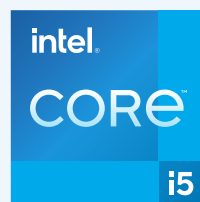Raven Black with Terrazzo Exterior

Security

Smart Power On
ThinkShield Security Suite
TPM 2.0 firmware
Kensington® Security Slot™
Hard Disk Password
Secure Wipe
Boot Sequence Control
Cover presence switch
Smart USB Protection
Individual USB port disablement

Software

Lenovo Vantage
Lenovo Smart Storage
MS Office (Trial)
McAfee Livesafe (Trial)
Kaspersky®

Certification

Energy Star® 8.0
EPEAT™ Gold
EPEAT™ Silver
TCO 9.0
TÜV Low Noise
ErP (EU only)
Low Halogen
FSC packaging

Recommended Services

Lenovo offers a comprehensive portfolio of services to support and protect your investment—so you can focus on your work, not your IT. Our portfolio of services supports the full lifecycle of your Lenovo IT assets. From initial strategic planning to customized configuration, deployment, support, protection, security, and asset recovery—Lenovo has solutions to help you embrace new workplace technologies.

Premier support
No matter where you or your employees are located, you have direct, 24x7x365 access to elite Lenovo engineers, unscripted troubleshooting, comprehensive hardware, and OEM software support, priority on service delivery, repair parts, and more.

Lenovo Device as a Service
Combine hardware, services, and software into a single, flexible solution to maintain predictable monthly costs. This innovative, fully managed model drives down capital IT expenses while ensuring your employees experience the latest technology to keep them secure and productive.

Warranty (1-year base warranty)
This fixed-term, fixed-cost service helps you accurately budget for desktop expenses, protect your valuable investment, and lower the cost of ownership over time.

Lenovo CO_2 Offset Service
Make offsetting carbon emissions simple and within your control. You can use this service to compensate for environmental impact based on realistic emissions over an average product lifecycle. It is offered as an option at point of purchase, with tangible proof of CO_2 emission that offset.

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[1]165W is under BIOS test
[2]Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations