Smarter
technology
for all

Lenovo

It matters how you
deliver business productivity

ThinkCentre neo 50q Gen 4

1L Ultra-small Form Factor Desktop

(Pre-release version for CES 2023)

ThinkCentre NEO

*Images and specifications are subject to change
*Image shown is for a full version PC

intel
CORe
i5

Powered by
13th Gen Intel® Core™ i5 processor

COMPACT YET POWERFUL TO HANDLE ANYTHING

The advent of new processing platforms has 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 ThinkCentre neo 50q, 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 meets these demands with the all-new up to **13th Gen Intel® Core™ i5 H-series mobile processor** in a tiny **1L form factor.** Connectivity is improved too, with multiple USB ports, HDMI, audio, and LAN ports. The **BTB punch-out**[1] option lets users choose a custom port for an extra DP, VGA, or COM port as needed. While ThinkCentre neo 50q is available as a **full Windows PC,** the ThinClient features a virtual system with **Windows 10 IoT, Linux-based IGEL,** and **LeTOS OS.** It helps businesses and enterprises 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 too, so space is never an issue. Up to **32GB of DDR4 SODIMM memory**[2] 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.

intel® CORE™ i5

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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, TCO 9.0, TÜV Ultra Low Noise, GreenGuard/VOC certification, ErP Lot3,** and more. Overall, ThinkCentre neo 50q leaves a smaller carbon footprint in terms of size and environmental impact. ThinkCentre neo 50q features a front bezel with hidden ventilation.

WHY BUY THE 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. Additionally, its plethora of ports allows it to work in multiple dimensions – making presentations, showcasing visual work, connecting to other devices, and securely transferring data. Additionally, the optional BTB port[1] 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.
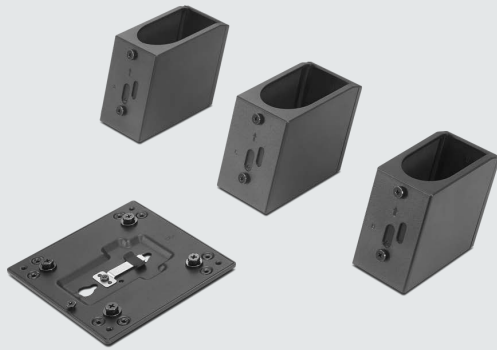
Purposeful: there are two variants of ThinkCentre neo 50q - the PC Variant and ThinClient. The PC variant runs on a full-fledged Windows platform for easy deployment for businesses. ThinClient, however, is secure & scalable, a virtual or cloud-based desktop that can be deployed as needed, running on three operating platforms for different needs: Windows-based Win10 IoT OS, Linux-based LeTOS OS, and next-generation Linux-based IGEL OS.

[1]Available only on ThinkCentre neo 50q PC variant
[2]Up to 16GB DDR4, 256GB SSD for ThinClient variant. The ThinClient variant doesn't offer HDD feature.
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RECOMMENDED ACCESSORIES

ThinkCentre Tiny/Nano Monitor Clamp II
PN: 4XH0Z42451

The ThinkCentre Tiny/Nano Monitor Clamp II is a uniquely designed accessory which secures Tiny or Nano devices onto selected ThinkVision monitors. The highly integrated and secured solution will allow you to create a lean working environment and a better user experience.

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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COMPACT YET POWERFUL TO HANDLE ANYTHING

PERFORMANCE

Processor
Up to 13th Gen Intel® Core™ i5
H-series mobile processor

Operating System
Windows 11 Pro
Windows 11 Home

For ThinClient variant:
Windows 10 IoT
Linux-based IGEL
LeTOS

Memory
Up to 32GB DDR4, 2 x SODIMM[1]
Up to 16GB DDR4, 1 x SODIMM
(For ThinClient variant)

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

Graphics
Intel® Iris Xe Graphics

PSU
65W[2] / 90W Adaptor

CONNECTIVITY

WLAN
Up to Wi-Fi 6
Bluetooth® 5.1

Powered by
13th Gen Intel® Core™ i5 processor

Front I/O Ports
1 x USB 3.2 Gen2
1 x USB 3.2 Gen1 (Type-C)
1 x Combo Audio

Rear I/O Ports
1 x LAN (RJ45)
2 x USB 3.2 Gen1
2 x USB 2.0
1 x HDMI 2.1 TMDS
1 x DP 1.4b
(DP, VGA, COM)

Expansion Slot
1 x 2.5" HDD Bay

Internal Bay
1 x SATA 3.0

DESIGN

Form Factor
1 Liter Ultra-small Form Factor

Dimensions (L x W x T)
182.9 x 179 x 34.5mm
7.20 x 7.04 x 1.35 inches

Weight
1.11kg/2.45lbs.

Color
Raven Black with Terrazzo
Exterior

SECURITY

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
TCO 9.0
TÜV Ultra Low Noise
RoHS
ErP Lot3
GreenGuard/VOC
Low Halogen

[1]Available only on ThinkCentre neo 50q PC variant
[2]65W adapter for ThinkCentre neo 50q ThinClient variant

**This datasheet is for CES 2023 only.
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until the final release of the product.**

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 EXTENSION (1-YEAR BASE, UP TO 5 YEARS)
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.