

Lenovo  
**ThinkCentre**

# Crafted for evolving needs of the **new workplace**

ThinkCentre neo 50t datasheet

Version 1.0 | July 2023



Powered by up to 13<sup>th</sup> Gen Intel® Core™ i9 processor



Smarter  
technology  
for all

**Lenovo**

# Power-packed, highly efficient, and quiet

The modern and powerful ThinkCentre neo 50t Gen 4 desktop caters to the demands of the new workforce with speed and reliability, helping you excel in all aspects of the business. This all-new tower desktop quenches the need for faster processing, quicker response time, easy collaboration, and high sustainability with the latest-gen processor, super-fast memory, eco-friendliness, and robust security features.

## An all-new dimension to work

**Powerful and efficient:** ThinkCentre neo 50t Gen 4 is built to multitask seamlessly and tackle complex work. It comes with abundant storage and streamlined performance features that enhance business efficiency. Powerful and efficient **up to 13<sup>th</sup> Gen Intel® Core™ i9 processor** elevates your workday experience. This advanced processor's increased core count and cache size make even the most arduous tasks look easy. Work on multiple projects without interruptions with the highly responsive **64GB DDR4** memory. Up to 1TB SSD and up to 2TB HDD offer dual drive performance, faster access to applications, and the capacity to store much data.

**Optimized performance:** when managing multiple complex tasks like photo editing and running multi-media uploads, **Intelligent Cooling Engine (ICE 6.0)** optimizes system performance by automatically matching CPU activity to work modes, resulting in higher energy efficiency and performance. Preloaded with up to **Windows 11 Pro**, ThinkCentre neo 50t Gen 4 enhances computing experience and multi-tasking through sustained computing sessions.

**Convenient collaboration:** with the smart and upgraded features on ThinkCentre neo 50t Gen 4, users can connect, share, and collaborate more seamlessly. Accessing data and sharing files has become easier with **Smart Cable**,<sup>1</sup> enabling the smooth operation of two devices within one device screen and enhancing data exchange between screens, keyboards, mouses, files, and storage. The **Lenovo Smart Storage**<sup>1</sup> solution allows users to easily access and automatically back up data across many devices while ensuring maximum security. Device performance and usability are boosted with **PCIe Gen4** slots. DP and HDMI 1.4b connection to auxiliary devices like monitors or projectors to ensure you can present your work. The **USB Type-C** connection connects accessories and transfers files quickly. Up to **Wi-Fi 6** provides unhindered wired connectivity.



\*Monitor, keyboard, and mouse sold separately.

Lenovo

## Why you should buy ThinkCentre neo 50t Gen 4

**Energy-efficient and eco-friendly:** ThinkCentre neo 50t Gen 4 is designed responsibly. The **EPEAT™ Gold** and **TCO 9.0** certifications ensure that this meets ecological standards from production through recycling. **Energy Star® 8.0** guarantees reduced power usage. Paint-free raw material reduces **Volatile Organic Compounds (VOC)**, and Low-temperature soldering lowers CO<sub>2</sub> emissions during manufacturing, creating a safer workplace. The front bezel comprises **85% post-consumer recycled content (PCC)**. ThinkCentre neo 50t Gen 4 also uses **Ocean-Bound plastic** in packaging.

**Unrestrained performance:** with the latest Intel® Core™ processor, ThinkCentre neo 50t Gen 4 is equipped to enhance productivity. The ample connectivity options through the multiple ports also enable fast and reliable data transmission. Extensive storage and expandability options save costs and facilitate higher performance, helping profitability. **TÜV Ultra-Low Noise certification** ensures that the system emits minimum noise, improving the user experience at work and, in turn, increasing productivity.

**Security and manageability:** your IT team can rest assured with a desktop that enables seamless manageability and enhanced safety. Preloaded **Lenovo Vantage** delivers unique features that help you get the best performance from your desktop. As cloud migration increases, **Lenovo Device Manager (LDM)**,<sup>2</sup> a **cross-platform device management solution for Windows or Android devices**, provides a flexible and scalable management solution. **Quick Boot** reduces the boot time by speeding up the power on process. Foolproof physical security and prevention of component theft are guaranteed with **Smart Cable Clip**<sup>1</sup>, Padlock Loop and the Kensington™ lock slot. **Smart USB Protection** prevents data transfer from USB ports by blocking the ports and **hardware TPM** encrypts and stores user credentials on a separate chip for enhanced data safety.

<sup>1</sup>Optional

<sup>2</sup>Available only in USA and Canada



Powered by up to 13<sup>th</sup> Gen Intel® Core™ i9 processor

# Power-packed, highly efficient, and quiet



## Recommended accessories



**Lenovo Performance FHD Webcam**  
(PN: 4XC1D66055)

It's a reliable digital video device to transfer video data with HD quality through a high-speed USB interface in Full HD mode delivers clear images for all your videoconferencing needs. It's easy to operate, and functional mechanical mechanism creates an excellent user experience. The built-in dual microphones provide clear audio that you can count on.



**ThinkVision T12Q-20 Monitor<sup>2</sup>**  
(PN: 61EDGAR2WW)

Boost your productivity with ThinkVision T27q-20, a 27-inch monitor equipped with a QHD, In-Plane Switching (IPS) panel for distortion-free images. The 3-sided NearEdgeless bezel offers a wider screen real estate, while the versatile connection options, including HDMI, DP, and multiple USB 3.1 Gen1 ports, facilitate easy connectivity with peripherals for faster and smoother data transfer.



**Lenovo Professional Wireless Combo<sup>2</sup>**  
(PN: 4X30M39458 / 4X30M39507)

Connect both keyboard and mouse seamlessly using a wireless 2.4 GHz dongle. The spill-resistant, wireless keyboard with low profile land-style keys and adjustable tilt leg is responsive and easy to use. The full-size wireless mouse accommodates left- and right-handed users with an ambidextrous design, and 1200 DPI resolution gives more precision and control. It comes with a one-year warranty.



**Lenovo 100 Stereo USB Headset<sup>2</sup>**  
(PN: 4XD0X88524)

An on-ear business-ready stereo USB headset comes with a rotatable boom microphone and passive noise cancellation, making it perfect for calls and music. Its memory foam and leather earcups make it light and comfortable enough to wear and use all day. 30mm drivers with neodymium magnets deliver excellent audio, while its adjustable headband and boom mic allow either left-side or right-side wearing.

<sup>1</sup>Optional

<sup>2</sup>Recommended accessories

# Power-packed, highly efficient, and quiet

## Performance

### Processor

Up to 13<sup>th</sup> Gen Intel® Core™ i9 processor

### Operating System

Windows 11 Pro  
Windows 11 Home  
Windows 11 Pro DG  
Ubuntu 22.04

### Memory

Up to 64GB DDR4; 3200MHz  
2 x UDIMM

### Storage

Up to 1TB M.2 PCIe SSD  
Up to 2TB HDD

### Graphics

Integrated UMA  
AMD Radeon™ RX 6400 4GB

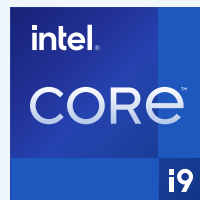
### Power supply

180W (85%), 260W (90%)  
310W (92%), 380W (92%)

## Connectivity

### Front I/O ports

1 x USB 3.2 Gen1 Type-C  
2 x USB 3.2 Gen2  
2 x USB 3.2 Gen1  
1 x Audio Combo  
1 x Audio Mic  
Card Reader<sup>1</sup>



Powered by up to 13<sup>th</sup> Gen Intel® Core™ i9 processor

### Rear I/O ports

4 x USB2.0  
1 x VGA  
1 x HDMI 1.4b  
1 x DP 1.4  
1 x Serial, 2nd serial<sup>1</sup>  
1 x LAN (1G)  
1 x Audio out  
2 x PS2<sup>1</sup>  
Optional Parallel

### Expansion slot

1 x PCIe x 16 Gen4  
2 x PCIe x 1  
1 x M.2 2280 for SSD  
1 x M.2 for Wi-Fi

### Internal bay

1 x 3.5" HDD  
Optional 1 x 2.5" HDD

### External bay

1 x Slim ODD

### WLAN

Up to Wi-Fi 6  
Bluetooth 5.2

## Design

### Form factor

13.6L

### Color

Chassis: Black

### Dimensions (D x H x W)

**Size w/ package**  
395 x 530 x 245mm  
15.55 x 20.86 x 9.64 inches

### Size w/ chassis

294 x 340 x 145mm  
11.57 x 13.39 x 5.70 inches

### Weight w/ package

7.5kg/16.53lbs.

### Weight unpacked

5.5kg/12.13lbs.

## Security

HW TPM 2.0  
Kensington™ lock slot  
Padlock Loop

## User experience

Smart Power On  
Quick Boot  
Smart Cable<sup>1</sup>  
Smart Cable Clip<sup>1</sup>  
Intelligent Cooling Engine (ICE 6.0)

## Softwares

Lenovo Vantage  
Lenovo Smart Storage  
MS Office Trial  
McAfee® Livesafe™

## Software Platform

Lenovo Device Manager<sup>2</sup>

## Certification

EPEAT™ Gold  
TCO 9.0  
Energy Star® 8.0  
RoHS  
85% PCC  
Lenovo OBP  
TÜV Ultra-Low Noise



## 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 (Up to 5 years on-site)

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 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<sub>2</sub> 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 the point of purchase, with tangible proof of CO<sub>2</sub> emission that offset.

Lenovo

©2023 Lenovo. All rights reserved. Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: - 5 Gbit/s for USB 3.1 Gen1; 10 Gbit/s for USB 3.1 Gen2 & 20 Gbit/s for USB 3.2. These products are available while supplies last. Prices shown are subject to change without notice. For any questions concerning price, please contact your Lenovo Account Executive. Lenovo is not responsible for photographic or typographic errors. Warranty: For a copy of applicable warranties, write to: Warranty Information, 500 Park Offices Drive, RTP, NC 27709, Attn: Dept. ZPYA/B600. Lenovo makes no representation or warranty regarding third-party products or services. Trademarks: Lenovo, the Lenovo logo, Rescue and Recovery, ThinkPad, ThinkCentre, ThinkStation, ThinkVantage, and ThinkVision are trademarks or registered trademarks of Lenovo. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Inside, Intel Core, and Core Inside are trademarks of Intel Corporation in the U.S. and/or other countries. Other company, product and service names may be trademarks or service marks of others.

<sup>1</sup>Optional

<sup>2</sup>Available only in USA and Canada