

## Lenovo ThinkCentre neo 50a 24 Gen 5 12SD(12SD000FMB)

**Lenovo ThinkCentre neo 50a 24 Gen 5 12SD - All-in-one with monitor stand - Core i5 13420H / up to 4.6 GHz - RAM 8 GB - SSD 256 GB - TCG Opal Encryption 2, NVMe - UHD Graphics - Gigabit Ethernet, Bluetooth 5.2, IEEE 802.11ax (Wi-Fi 6) - Win 11 Pro - monitor: LED 23.8" 1920 x 1080 (Full HD) @ 100 Hz touchscreen - keyboard: Belgium - luna grey - Lenovo TopSeller - with 1 Year Lenovo Onsite Support**



Experience lightning-fast speeds and extreme multitasking with the device featuring Intel processors, allowing professionals to crunch through intense reports while streaming without closing a tab. Coupled with Intel UHD Graphics, immerse yourself in stunning visuals, whether editing photos, watching videos, or gaming. With the desktop's adjustable monitor stand, customize the viewing angle with a tilt range from -5° to +15°, providing the perfect perspective for extended productivity.

The device features dual 3W Harman stereo speakers, delivering a rich and immersive audio experience. Simultaneously, the dual-microphone array minimizes background noise, ensuring seamless communication whether you're participating in virtual meetings, recording podcasts, or engaging in online gaming.

Whether you're running resource-intensive applications, juggling multiple browser tabs, or engaging in creative endeavors, a large memory and a high-capacity storage enables smooth transitions and swift responsiveness, without any delays.

## Key Selling Points

- 23.8-inch Full HD IPS display with 99% sRGB for vivid colors
- Intel Core i5-13420H processor with speeds up to 4.6 GHz
- Wi-Fi 6 and a full range of ports for superior connectivity
- ENERGY STAR certified and EPEAT Silver compliant for energy efficiency
- All-in-one design with built-in stereo speakers for a clutter-free desk

## Product Features

### Immersive display

Experience true visual clarity with the Lenovo ThinkCentre neo 50a 24 Gen 5's 23.8-inch Full HD IPS display, offering a 99% sRGB color gamut for vivid colors, and enhanced viewing comfort with Flicker-Free and Low Blue Light technologies.

### Powerful performance

Powered by an Intel Core i5-13420H processor with 8 cores and speeds up to 4.6 GHz, this desktop handles demanding applications with ease. The dual-channel DDR5 memory architecture ensures smooth multitasking.

### Advanced connectivity

Stay connected with a comprehensive suite of ports including USB-C 3.2 Gen 2, HDMI input and output, and Gigabit Ethernet, alongside Wi-Fi 6 for high-speed wireless connectivity.

### Secure and reliable

Built with a firmware Trusted Platform Module (TPM 2.0) security chip, the Lenovo ThinkCentre neo 50a 24 Gen 5 ensures your data is protected. ENERGY STAR certification and EPEAT Silver compliance also ensure energy efficiency.

### Sleek and integrated design

The all-in-one form factor with a monitor stand and built-in stereo speakers reduces clutter, making it a perfect fit for any workspace. The included Lenovo Calliope Keyboard and Mouse offer a seamless user experience.

## Main Specifications

Product Description	Lenovo ThinkCentre neo 50a 24 Gen 5 - all-in-one Core i5 13420H 2.1 GHz - 8 GB - SSD 256 GB - LED 23.8" - Belgium
Type	Personal computer - all-in-one
Bundled Services	1 Year Lenovo Onsite Support
Localisation	Language: English, German, French, Dutch / region: Belgium
Processor	Intel Core i5 (13th Gen) 13420H / 2.1 GHz (up to 4.6 GHz, (8-core)
Cache Memory	12 MB
Cache Per Processor	12 MB

RAM	8 GB (installed) / 32 GB (max) - DDR5 SDRAM
Hard Drive	SSD 256 GB - PCI Express 4.0 x4 - M.2 2280 - TCG Opal Encryption 2, NVMe Express (NVMe)
Optical Storage	No optical drive
Monitor	23.8" - LED - 1920 x 1080 (Full HD) @ 100 Hz - 16:9 - touchscreen
Graphics Controller	Intel UHD Graphics Shared Video Memory (UMA)
Camera	Yes
Networking	1GbE, 802.11a, 802.11b/g/n, Wi-Fi 5, Bluetooth 5.2, Wi-Fi 6
Keyboard	Belgium
Power	(50/60 Hz)
OS Provided	Windows 11 Pro
Colour	Luna grey
Dimensions (WxDxH)	54 cm x 19.2 cm x 43.1 cm
Weight	6 kg
Manufacturer Selling Program	Lenovo TopSeller
Environmental Standards	ENERGY STAR Qualified EPEAT Silver
Manufacturer Warranty	Base warranty - 1 year - pick-up and return † Extended warranty - 1 year - on-site

## Extended Specification

### General

Type	Personal computer
Bundled Services	1 Year Lenovo Onsite Support
Product Form Factor	All-in-one - with monitor stand
Built-in Devices	Stereo speakers
Embedded Security	Firmware Trusted Platform Module (TPM 2.0) Security Chip
Colour	Luna grey
Localisation	Language: English, German, French, Dutch / region: Belgium

### Expansion / Connectivity

Slots	1 (total) / 0 (free) x M.2 Card (for WLAN) † 1 (total) / 0 (free) x M.2 Card (for SSD)
Interfaces	2 x USB 2.0 (2 rear) † 1 x USB 3.2 Gen 2 (1 rear) † 1 x USB-C 3.2 Gen 2 (1 side) † 1 x HDMI input (1 rear) † 1 x HDMI output (1 rear) † 1 x LAN (Gigabit Ethernet) (1 rear) † 1 x headphones/microphone (1 side)

### Manufacturer Warranty

Service & Support	Base warranty - 1 year - pick-up and return † Extended warranty - 1 year - on-site
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### RAM

Installed Size	8 GB (installed) / 32 GB (max)
Technology	DDR5 SDRAM
Effective Memory Speed	5200 MHz
Rated Memory Speed	5200 MHz
Form Factor	SO-DIMM 262-pin
Slots	2 (Total) / 1 (empty)
Features	Dual channel memory architecture
Configuration Features	1 x 8 GB

### Networking

Interface (Bus) Type	M.2 Card
Ethernet Controller	Realtek RTL8111H

Wireless LAN Supported	Yes
Wireless NIC	Intel Wi-Fi 6 AX 201
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet, IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, Bluetooth 5.2, IEEE 802.11ax (Wi-Fi 6)
Features	Wake on LAN (WoL), dual stream (2x2)

#### Miscellaneous

Compliant Standards	RoHS, WEEE, REACH, GREENGUARD, Energy-Related Products (ErP) Lot 3, TÜV Rheinland Flicker Free Certification, Energy-Related Products (ErP) Lot 7, TÜV Rheinland Ultra Low Noise Certification, TÜV Rheinland Low Blue Light
Manufacturer Selling Program	Lenovo TopSeller

#### Power

Device Type	Power adapter
Voltage Required	AC 100-240 V (50/60 Hz)
Power Provided	90 Watt
Efficiency	89%

#### Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	35 °C
Humidity Range Operating	20 - 80%

#### Cache Memory

Installed Size	12 MB
Cache Per Processor	12 MB

#### Optical Storage

Type	No optical drive
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#### Operating System / Software

OS Provided	Windows 11 Pro Dutch / English / French / German
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#### Monitor

Monitor Type	LED - IPS
Touchscreen	Yes (10-point multi-touch)
Diagonal Size	23.8"
Native Resolution	1920 x 1080 (Full HD)
V-Sync Rate at Max Res.	100 Hz
Widescreen Display	Yes
Image Aspect Ratio	16:9
Horizontal Viewing Angle	+89 / -89
Vertical Viewing Angle	+89 / -89
Colour Gamut	99% sRGB
Image Brightness	250 cd/m <sup>2</sup>
Image Contrast Ratio	1300:1
Monitor Features	Anti-glare, Flicker Free technology, borderless, Low Blue Light technology, tilt stand (-5°- 15°)

#### Graphics Controller

Graphics Processor	Intel UHD Graphics Shared Video Memory (UMA)
Video Interfaces	HDMI

## Audio Output

Compliant Standards	High Definition Audio
Speakers Included	2 x right / left channel

## Hard Drive

Type	SSD - M.2 2280
Capacity	1 x 256 GB
Interface Type	PCI Express 4.0 x4
Features	TCG Opal Encryption 2, NVMe Express (NVMe)

## Input Device

Type	Mouse, keyboard
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## Audio Input

Type	Dual array microphone
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## Camera

Camera	Yes
Resolution (MP)	5 Megapixel

## Dimensions & Weight

Width	54 cm
Depth	19.2 cm
Height	43.1 cm
Weight	6 kg

## Dimensions & Weight (Shipping)

Shipping Width	67 cm
Shipping Depth	22.9 cm
Shipping Height	55.3 cm
Shipping Weight	9.55 kg

## Keyboard

Keyboard Name	Lenovo Calliope Keyboard
Interface	USB
Localization & Layout	Belgium

## Mouse

Mouse Name	Lenovo Calliope Mouse
Interface	USB

## Processor / Chipset

CPU	Intel Core i5 (13th Gen) 13420H
Clock Speed	2.1 GHz (P-core) / 1.5 GHz (E-core)
Max Turbo Speed	4.6 GHz (P-core) / 3.4 GHz (E-core)
Number of Cores	8-core
CPU Qty	1
Max CPU Qty	1

## Sustainability Information

EPEAT Compliant	EPEAT Silver
ENERGY STAR Certified	Yes

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