

Lenovo ThinkCentre neo 50q Gen 6 (13HR003NUK)

Lenovo ThinkCentre neo 50q Gen 6 13HR - Copilot+ PC - tiny Core Ultra 5 226V / up to 4.5 GHz - RAM 16 GB - SSD 512 GB - TCG Opal Encryption 2, NVMe - Arc Graphics 130V - Gigabit Ethernet, Bluetooth 5.2, IEEE 802.11ax (Wi-Fi 6) - Win 11 Pro - monitor: none - keyboard: UK - black - Lenovo TopSeller - with 1 Year Lenovo Onsite Support



The Lenovo ThinkCentre neo 50q Gen 6 is a compact and efficient desktop designed to meet the needs of modern workspaces. With its ultra small form factor and built-in high-definition audio, it combines style and functionality seamlessly. It is equipped with a powerful Intel Core Ultra 5 processor with 8 cores, delivering reliable performance for multitasking and demanding applications. This desktop is perfect for users requiring a powerful system that can be easily integrated into any environment. Featuring a solid 512 GB SSD for swift data access and storage capabilities. The robust 16 GB LPDDR5X RAM ensures smooth operation during simultaneous tasks. Its connectivity options include USB-C 3.2 Gen 2, HDMI, and DisplayPort interfaces, making it versatile and adaptable for various setups. The ENERGY STAR certified design ensures that this desktop is energy-efficient, catering to eco-conscious users while maintaining high-performance standards.

Key Selling Points

- Compact ultra small form factor design
- Powerful 8-core Intel Core Ultra 5 processor
- Fast 512 GB SSD for quick data access
- 16 GB LPDDR5X RAM for seamless multitasking
- ENERGY STAR certified for energy efficiency

Product Features

- Powerful performance**  
The Intel Core Ultra 5 processor features 8 cores and offers a base clock speed of 2.1 GHz, ensuring efficient performance for everyday tasks and demanding applications.
- Efficient storage solution**  
Equipped with a 512 GB SSD using the PCI Express 4.0 interface, this desktop allows for quick boot times and rapid file transfers, enhancing overall productivity.
- Advanced connectivity options**  
Includes multiple ports such as USB-C 3.2 Gen 2, HDMI, and DisplayPort, allowing for versatile connectivity to various devices and peripherals.
- Robust memory capacity**  
The 16 GB LPDDR5X RAM provides excellent data transfer rates of 8533 MT/s, which helps maintain optimal performance even with multiple applications running concurrently.
- Eco-friendly design**  
Designed with sustainability in mind, this desktop meets ENERGY STAR certification standards, providing an energy-efficient solution for environmental responsibility.

Main specifications

|                             |                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description         | Lenovo ThinkCentre neo 50q Gen 6 - tiny - Copilot+ PC - Core Ultra 5 226V - 16 GB - SSD 512 GB - UK                                                                       |
| Type                        | Personal computer - tiny - Copilot+ PC                                                                                                                                    |
| Bundled Services            | 1 Year Lenovo Onsite Support                                                                                                                                              |
| EU Data Act                 | <a href="https://www.lenovo.com/us/en/compliance/eu-data-act-transparency-declaration/">https://www.lenovo.com/us/en/compliance/eu-data-act-transparency-declaration/</a> |
| Localisation                | Language: English / region: United Kingdom                                                                                                                                |
| Processor                   | Intel Core Ultra 5 (Series 2) 226V (up to 4.5 GHz, (8-core)                                                                                                               |
| Neural Processor Unit (NPU) | Intel AI Boost - up to 40 TOPS                                                                                                                                            |
| Cache Memory                | 8 MB                                                                                                                                                                      |
| Cache Per Processor         | 8 MB                                                                                                                                                                      |
| RAM                         | 16 GB LPDDR5X SDRAM                                                                                                                                                       |
| Hard Drive                  | SSD 512 GB - PCI Express 4.0 x4 - M.2 2280 - TCG Opal Encryption 2, NVMe Express (NVMe)                                                                                   |
| Optical Storage             | No optical drive                                                                                                                                                          |
| Graphics Controller         | Intel Arc Graphics 130V Shared Video Memory (UMA) - up to 53 TOPS                                                                                                         |
| Networking                  | 1GbE, 802.11a, 802.11b/g/n, Wi-Fi 5, Bluetooth 5.2, Wi-Fi 6                                                                                                               |
| Keyboard                    | UK                                                                                                                                                                        |
| Power                       | (50/60 Hz)                                                                                                                                                                |
| OS Provided                 | Windows 11 Pro                                                                                                                                                            |

|                              |                                                                                    |
|------------------------------|------------------------------------------------------------------------------------|
| Microsoft Copilot            | Yes                                                                                |
| Colour                       | Black                                                                              |
| Dimensions (WxDxH)           | 17.9 cm x 18.29 cm x 3.65 cm                                                       |
| Weight                       | 1.1 kg                                                                             |
| Manufacturer Selling Program | Lenovo TopSeller                                                                   |
| Environmental Standards      | ENERGY STAR Qualified EPEAT Gold                                                   |
| Manufacturer Warranty        | Base warranty - 1 year - pick-up and return ¦ Extended warranty - 1 year - on-site |

## Extended specification

### General

|                     |                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                | Personal computer                                                                                                                                                         |
| AI Level            | Copilot+ PC                                                                                                                                                               |
| Bundled Services    | 1 Year Lenovo Onsite Support                                                                                                                                              |
| EU Data Act         | <a href="https://www.lenovo.com/us/en/compliance/eu-data-act-transparency-declaration/">https://www.lenovo.com/us/en/compliance/eu-data-act-transparency-declaration/</a> |
| Product Form Factor | Tiny                                                                                                                                                                      |
| Built-in Devices    | Speaker                                                                                                                                                                   |
| Embedded Security   | Discrete Trusted Platform Module (TPM 2.0) Security Chip                                                                                                                  |
| Colour              | Black                                                                                                                                                                     |
| Localisation        | Language: English / region: United Kingdom                                                                                                                                |

### Expansion / Connectivity

|            |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interfaces | 1 x USB-C 3.2 Gen 2 (1 front) (data transfer, 5V 3A charging) ¦ 1 x USB 3.2 Gen 2 (1 front) (Always On, fast-charging (5V, 2.1A)) ¦ 1 x headphones/microphone (1 front) ¦ 1 x USB 2.0 (1 rear) ¦ 1 x USB 2.0 (1 rear) (supports SmartPower On) ¦ 2 x USB 3.2 Gen 2 (2 rear) ¦ 1 x HDMI (1 rear) (TMDS compatible) ¦ 1 x DisplayPort 1.4b (1 rear) ¦ 1 x LAN (Gigabit Ethernet) (1 rear) |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Manufacturer Warranty

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Service & Support | Base warranty - 1 year - pick-up and return ¦ Extended warranty - 1 year - on-site |
|-------------------|------------------------------------------------------------------------------------|

### RAM

|                        |                             |
|------------------------|-----------------------------|
| Installed Size         | 16 GB                       |
| Technology             | LPDDR5X SDRAM               |
| Effective Memory Speed | 8533 MT/s                   |
| Rated Memory Speed     | 8533 MT/s                   |
| Configuration Features | Provided memory is soldered |

### Networking

|                        |                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless LAN Supported | Yes                                                                                                                                                      |
| Wireless NIC           | Realtek RTL8852BE                                                                                                                                        |
| 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               | Dual stream (2x2)                                                                                                                                        |

### Miscellaneous

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Theft/Intrusion Protection   | Security lock slot (cable lock sold separately), chassis intrusion switch, tool-less chassis access |
| Security Slot Type           | Kensington security slot                                                                            |
| Compliant Standards          | RoHS, FIPS 140-2, TCG Certified                                                                     |
| Manufacturer Selling Program | Lenovo TopSeller                                                                                    |

### Power

|                  |                         |
|------------------|-------------------------|
| Device Type      | Power adapter           |
| Voltage Required | AC 100-240 V (50/60 Hz) |
| Power Provided   | 65 watt                 |
| Efficiency       | 89%                     |

### Cache Memory

|                     |      |
|---------------------|------|
| Installed Size      | 8 MB |
| Cache Per Processor | 8 MB |

### Optical Storage

|      |                  |
|------|------------------|
| Type | No optical drive |
|------|------------------|

### Operating System / Software

|                   |                        |
|-------------------|------------------------|
| OS Provided       | Windows 11 Pro English |
| Microsoft Copilot | Yes                    |

### Monitor

|              |       |
|--------------|-------|
| Monitor Type | None. |
|--------------|-------|

### Graphics Controller

|                    |                                                                   |
|--------------------|-------------------------------------------------------------------|
| Graphics Processor | Intel Arc Graphics 130V Shared Video Memory (UMA) - up to 53 TOPS |
|--------------------|-------------------------------------------------------------------|

### Audio Output

|                     |                       |
|---------------------|-----------------------|
| Compliant Standards | High Definition Audio |
|---------------------|-----------------------|

### Hard Drive

|                |                                            |
|----------------|--------------------------------------------|
| Type           | SSD - M.2 2280                             |
| Capacity       | 1 x 512 GB                                 |
| Interface Type | PCI Express 4.0 x4                         |
| Features       | TCG Opal Encryption 2, NVMe Express (NVMe) |

### Input Device

|      |                 |
|------|-----------------|
| Type | Mouse, keyboard |
|------|-----------------|

### Dimensions & Weight

|        |          |
|--------|----------|
| Width  | 17.9 cm  |
| Depth  | 18.29 cm |
| Height | 3.65 cm  |
| Weight | 1.1 kg   |

### Keyboard

|                       |                          |
|-----------------------|--------------------------|
| Keyboard Name         | Lenovo Calliope Keyboard |
| Interface             | USB                      |
| Localization & Layout | UK                       |

### Mouse

|            |                       |
|------------|-----------------------|
| Mouse Name | Lenovo Calliope Mouse |
| Interface  | USB                   |

Processor / Chipset

|                 |                                    |
|-----------------|------------------------------------|
| CPU             | Intel Core Ultra 5 (Series 2) 226V |
| Max Turbo Speed | 4.5 GHz                            |
| Number of Cores | 8-core                             |
| CPU Qty         | 1                                  |
| Max CPU Qty     | 1                                  |

Sustainability Information

|                       |            |
|-----------------------|------------|
| EPEAT Compliant       | EPEAT Gold |
| ENERGY STAR Certified | Yes        |
| ENERGY STAR Version   | 9.0        |

Neural Processor Unit (NPU)

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Neural Processor Unit (NPU)              | Intel AI Boost                                |
| NPU Performance Up To (TOPS)             | 40 TOPS                                       |
| Total Processor Performance Up To (TOPS) | 40 TOPS                                       |
| AI Datatype Support on NPU               | INT8                                          |
| Sparsity Support                         | Yes                                           |
| AI Software Frameworks Supported by NPU  | DirectML, OpenVINO, WebNN, WindowsML, ONNX RT |
| Windows Studio Effects Support           | Yes                                           |

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet