

msi CUBINUC1M007

MSI Cubi NUC Desktop User Manual

Model: CUBINUC1M007

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your MSI Cubi NUC Desktop. The MSI Cubi NUC is a compact and powerful mini PC designed for various applications, including business, education, and multimedia. It features an Intel Core 7-150U processor, 32GB memory, 1TB SSD, and WiFi 6E connectivity, running on Windows 11 Pro.

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- MSI Cubi NUC Desktop Unit
- Power Adapter
- Keyboard
- Mouse
- User Manual (this document)

3. PRODUCT OVERVIEW

3.1 Front View



Figure 1: Front view of the MSI Cubi NUC Desktop.

The front panel of the Cubi NUC Desktop includes essential ports for convenient access. These typically include USB 3.2 Gen 2 Type-A ports for high-speed data transfer, a combo audio jack for headphones and microphones, and the power button with an indicator light.

3.2 Rear View and I/O Ports



Figure 2: Rear view of the MSI Cubi NUC Desktop.

The rear panel provides comprehensive connectivity options. This includes additional USB ports, HDMI outputs for display connections, Thunderbolt 4 ports (which support power delivery input), and dual 2.5G LAN ports for high-speed wired network connections. A dedicated power input port is also located here.

I/O PORTS

1. 1X MIC-IN / HEADPHONE-OUT COMBO
2. 2X USB 10GBPS TYPE A
3. 1X MICRO-SD CARD READER
4. 1X EXTERNAL POWER SWITCH SLOT
5. 2X USB 10GBPS TYPE A
6. 1X HDMI OUT (SUPPORTS 4K @60HZ AS SPECIFIED IN HDMI 2.1)
7. 2X RJ45 LAN (2.5G)
8. 1X HDMI OUT (SUPPORTS 4K @60HZ AS SPECIFIED IN HDMI 2.1) WHICH SUPPORTS THE MSI POWER LINK
9. 1X DC JACK
10. 1X THUNDERBOLT 4 (DP 1.4 ALT-MODE UP TO 4K@60HZ / PD-OUT 15W)
11. 1X THUNDERBOLT 4 (DP 1.4 ALT-MODE UP TO 4K@60HZ / PD-OUT 15W / PD-IN UP TO 100W)
12. 1X KENSINGTON LOCK SLOT



Figure 3: Detailed diagram of I/O Ports.

The diagram above provides a detailed breakdown of all input/output ports available on the MSI Cubi NUC Desktop, facilitating easy identification and connection of peripherals.

4. SETUP GUIDE

4.1 Connecting Peripherals

1. **Connect Display:** Use an HDMI cable to connect your monitor(s) to the HDMI ports on the rear of the Cubi NUC. For additional displays or Thunderbolt-compatible monitors, use the Thunderbolt 4 ports. The Cubi NUC supports up to four displays simultaneously.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into the available USB ports on the front or rear of the device.
3. **Connect Network:** For a wired connection, plug an Ethernet cable into one of the 2.5G LAN ports on the rear. For wireless connectivity, ensure your WiFi 6E network is available during initial setup.
4. **Connect Power:** Plug the power adapter into the DC-in port on the rear of the Cubi NUC, then connect it to a power outlet.

4.2 Powering On

Press the power button located on the front panel of the Cubi NUC. The power indicator light will illuminate. If using a compatible MSI monitor, you may also power on the Cubi NUC using the monitor's power button via MSI Power Link functionality.

4.3 Initial Windows 11 Pro Setup

Upon first boot, follow the on-screen instructions to complete the Windows 11 Pro setup. This includes selecting your region, language, connecting to a network, and creating a user account.

4.4 VESA Mounting



Figure 4: VESA mounting the MSI Cubi NUC Desktop.

The MSI Cubi NUC Desktop is VESA mountable, allowing it to be securely attached to the back of a compatible monitor or a wall. This helps save desk space and creates a cleaner workspace. Refer to the VESA mounting kit instructions for proper installation.

5. OPERATING INSTRUCTIONS

5.1 MSI AI Engine

The MSI AI Engine automatically detects the user's application and adjusts the display mode accordingly, optimizing performance and visual experience for tasks such as intelligent work or meetings.

5.2 MSI Cloud Center

Utilize the MSI Cloud Center for wireless backup and download of files between your Cubi NUC Desktop, Android, and iOS devices. This feature provides quick and secure file management across your ecosystem.

5.3 Quadruple Display Support

The Cubi NUC supports up to four displays via its HDMI and Thunderbolt 4 ports. This capability enhances productivity by providing ample screen space for managing multiple applications simultaneously.

5.4 Thunderbolt 4

Thunderbolt 4 ports offer versatile connectivity, supporting fast data transfer, video output, and power delivery input of up to 100W. This allows for simplified connections, often enabling a single cable solution for power and display.

5.5 Dual 2.5G LAN

The dual 2.5G LAN ports provide high-speed network connectivity, improving redundancy, network segmentation, security, and load balancing. This is beneficial for professional environments requiring stable and fast network performance.

5.6 Built-in Card Reader

The integrated Micro-SD card reader offers a convenient way to transfer data from memory cards, enhancing user experience for media professionals and general users alike.

6. MAINTENANCE

6.1 Cleaning

Regularly clean the exterior of the Cubi NUC with a soft, dry cloth. Avoid using liquid cleaners directly on the device. Ensure ventilation openings are free from dust and obstructions to maintain optimal airflow.

6.2 Storage and Memory Upgrade



Figure 5: Internal components and upgrade options.

The Cubi NUC allows for easy upgrades of its internal components. It supports 2.5" HDD/SSD, M.2 SSDs (2280 and 2242), and two DDR5 SO-DIMM memory modules. For detailed instructions on accessing and upgrading these components, please refer to the full service manual or consult a qualified technician.

6.3 Software Updates

Keep your Windows 11 Pro operating system and device drivers updated to ensure optimal performance, security, and compatibility. You can check for updates through Windows Update and MSI's official support website.

7. TROUBLESHOOTING

If you encounter issues with your MSI Cubi NUC Desktop, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Cubi NUC and a working power outlet. Test the outlet with another device.
- **No Display:** Verify that the monitor is powered on and correctly connected to the Cubi NUC via HDMI or Thunderbolt. Try a different cable or monitor if possible. Ensure the correct input source is selected on your monitor.
- **Network Connectivity Issues:** For wired connections, check the Ethernet cable and router/modem status. For wireless, ensure WiFi is enabled in Windows settings and you are connected to the correct network. Restart your router/modem.
- **System Unresponsive:** If the system is frozen, press and hold the power button for 10 seconds to force a shutdown. Wait a few moments, then power it back on.
- **Software Problems:** Try restarting the application or the entire system. Ensure all software and drivers are up to date.

For more complex issues or if the problem persists, please contact MSI customer support or visit the official MSI website for further assistance.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	msi
Model Number	CUBINUC1M007
Operating System	Windows 11 Pro
CPU Model	Intel Core 7-150U
CPU Speed (Max)	5.4 GHz
RAM Memory Installed	32 GB DDR5
RAM Memory Maximum Size	64 GB
Memory Storage Capacity	1 TB SSD
Graphics Coprocessor	Intel UHD Graphics 630 (Integrated)
Wireless Connectivity	WiFi 6E, Bluetooth
LAN	Dual 2.5G LAN
Video Output	HDMI, Thunderbolt 4 (supports up to 4 displays)
USB Ports	4 (various types including Thunderbolt 4)
Item Dimensions	5.34 x 5.22 x 1.97 inches
Item Weight	3.2 Pounds
Color	Black

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The MSI Cubi NUC Desktop (Model: CUBINUC1M007) comes with a **3-Year Advance Replacement Warranty**. This warranty covers manufacturing defects and ensures a replacement unit is provided in case of eligible issues. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical support, driver downloads, or further assistance, please visit the official MSI website or contact MSI customer service. You can find contact information and support resources on the MSI support page.

10. VIDEO DEMONSTRATIONS

10.1 Cubi NUC Product Video

Your browser does not support the video tag.

Official product video demonstrating features and usage of the MSI Cubi NUC Desktop. This video highlights key functionalities and design aspects.

