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msi CUBINUC1M009

MSI Cubi NUC Desktop User Manual

Model: CUBINUC1M009

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your MSI Cubi NUC Desktop. Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage.

The MSI Cubi NUC Desktop is a compact and powerful mini PC designed for professional and home office environments. It features an Intel Core 5-120U processor, 16GB DDR5 memory, a 1TB SSD, and WiFi 6E connectivity, running on Windows 11 Home.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your product packaging:

- MSI Cubi NUC Desktop Unit
- Power Adapter
- Keyboard
- Mouse
- User Manual (this document)
- Mounting Kit (if applicable, for VESA mounting)

If any items are missing or damaged, please contact your retailer or MSI customer support.

3. PRODUCT OVERVIEW

3.1 Front Panel



Image: Front view of the MSI Cubi NUC Desktop, showing the power button, USB ports, and audio jack.

The front panel provides convenient access to frequently used ports and controls:

- **Power Button:** Press to turn the system on or off.
- **USB 3.2 Gen 2 Type-A Ports:** For connecting high-speed USB devices.
- **Micro-SD Card Reader:** For reading and writing data to Micro-SD cards.
- **Mic-in / Headphone-out Combo Jack:** For connecting a headset or external microphone/speakers.

3.2 Rear Panel (I/O Ports)



Image: Rear view of the MSI Cubi NUC Desktop, detailing the various input/output ports including USB, HDMI, Thunderbolt 4, and Ethernet.

The rear panel houses the primary connectivity options:



Image: Detailed diagram illustrating the I/O ports on the MSI Cubi NUC Desktop, with numbered labels for each port type.

1. **Mic-in / Headphone-out Combo Jack:** For audio input/output.
2. **USB 3.2 Gen 2 Type-A Ports:** Two ports for connecting USB devices.
3. **Micro-SD Card Reader:** For memory card access.
4. **External Power Switch Slot:** For an optional external power switch.
5. **USB 3.2 Gen 1 Type-A Ports:** Two ports for connecting USB devices.
6. **HDMI Out (Supports 4K @60Hz):** For connecting to a display.
7. **2.5G LAN Ports:** Two Ethernet ports for high-speed network connectivity.
8. **HDMI Out (Supports 4K @60Hz) with MSI Power Link:** Another HDMI port, supporting MSI Power Link functionality.
9. **DC Jack:** For connecting the power adapter.
10. **Thunderbolt 4 (DP 1.4 Alt-Mode up to 4K@60Hz / PD-Out 15W):** A versatile port for display, data, and power output.
11. **Thunderbolt 4 (DP 1.4 Alt-Mode up to 4K@60Hz / PD-In up to 100W):** A versatile port for display, data, and power input (up to 100W).
12. **Kensington Lock Slot:** For securing the device physically.

3.3 Bottom Panel



Image: Bottom view of the MSI Cubi NUC Desktop, showing the rubber feet and VESA mounting screw holes for attachment to compatible monitors or mounts.

The bottom panel features rubber feet for stability and VESA mounting points, allowing the device to be securely attached to the back of a monitor or a wall mount.

4. SETUP

Follow these steps to set up your MSI Cubi NUC Desktop:

1. Connect Peripherals:

- Connect the provided keyboard and mouse to the USB ports on the front or rear panel.
- Connect your monitor(s) to the HDMI or Thunderbolt 4 ports on the rear panel. The device supports up to four displays.
- For internet access, connect an Ethernet cable to one of the 2.5G LAN ports or ensure your WiFi network is available for wireless connection.

2. Connect Power:

- Plug the power adapter into the DC Jack on the rear panel of the Cubi NUC.
- Plug the other end of the power adapter into a power outlet.

3. Power On:

- Press the power button located on the front panel of the Cubi NUC. The power indicator light will illuminate.
- Follow the on-screen instructions to complete the initial Windows 11 Home setup.

4. Optional VESA Mounting:



Image: The MSI Cubi NUC Desktop shown mounted on the back of a computer monitor, demonstrating its space-saving capability.

The Cubi NUC can be mounted behind a VESA-compatible monitor or on a wall using the included mounting kit. This helps maximize desk space.

- Attach the VESA mounting plate to the back of your monitor or wall using the appropriate screws.
- Secure the Cubi NUC to the mounting plate.

5. OPERATING INSTRUCTIONS

5.1 Power Management

- **Turning On:** Press the power button on the front panel.
- **Shutting Down:** In Windows, click the Start button, then Power, and select "Shut down".
- **Restarting:** In Windows, click the Start button, then Power, and select "Restart".
- **Sleep Mode:** In Windows, click the Start button, then Power, and select "Sleep".

5.2 Display Configuration



Image: The MSI Cubi NUC Desktop connected to three external monitors, demonstrating its capability for a multi-display setup.

The Cubi NUC supports up to four displays simultaneously via its HDMI and Thunderbolt 4 ports. To configure multiple displays:

1. Connect your monitors to the available video output ports.
2. Right-click on the desktop and select "Display settings".
3. From here, you can detect, arrange, and extend or duplicate your displays.

5.3 Network Connectivity

- **Wired Connection:** Connect an Ethernet cable to one of the 2.5G LAN ports. The system will automatically detect and connect to the network.
- **Wireless Connection (WiFi 6E):**
 - Click the network icon in the system tray.
 - Select your desired WiFi network from the list and enter the password if prompted.

6. MAINTENANCE

6.1 Cleaning

- Ensure the device is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior of the device.
- For stubborn marks, lightly dampen the cloth with water or a mild, non-abrasive cleaner.
- Periodically clean the ventilation grilles with compressed air to prevent dust buildup, which can affect cooling performance.

6.2 Storage and Upgrades



Image: An internal view of the MSI Cubi NUC Desktop, highlighting the locations for a 2.5" HDD/SSD, M.2 SSDs (2280 and 2242), and two DDR5 SO-DIMM slots for memory upgrades.

The MSI Cubi NUC Desktop offers expandability for storage and memory:

- **Storage:** Supports one 2.5" HDD/SSD and two M.2 SSDs (2280 and 2242 form factors).
- **Memory:** Features two DDR5 SO-DIMM slots for memory upgrades.

For internal component access and upgrades, it is recommended to consult a qualified technician or refer to the detailed service manual available on the MSI support website to avoid voiding your warranty or damaging the device.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your MSI Cubi NUC Desktop.

7.1 No Power

- Ensure the power adapter is securely connected to both the Cubi NUC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Check the power adapter for any visible damage.

7.2 No Display Output

- Confirm that the monitor is powered on and the correct input source is selected.

- Ensure the video cable (HDMI or Thunderbolt) is securely connected to both the Cubi NUC and the monitor.
- Try connecting to a different display or using a different video cable to rule out faulty components.

7.3 Network Connectivity Issues

- **Wired:** Check if the Ethernet cable is properly connected to both the Cubi NUC and the router/modem. Verify that your router/modem is working correctly.
- **Wireless:** Ensure WiFi is enabled in Windows settings. Confirm you are connected to the correct network and have entered the password correctly. Restart your router/modem.

7.4 System Performance Issues

- Close unnecessary applications running in the background.
- Ensure Windows and drivers are up to date.
- Check for malware or viruses using reputable security software.
- Monitor system temperatures to ensure proper cooling. Excessive heat can lead to performance throttling.

If you continue to experience issues, refer to the MSI support website or contact customer service.

8. SPECIFICATIONS

The following table outlines the key technical specifications for the MSI Cubi NUC Desktop (Model: CUBINUC1M009):

Feature	Specification
Processor	Intel Core 5-120U (3.8 GHz, up to 5.0 GHz with Intel Turbo Boost Max Technology 3.0)
Memory	16 GB DDR5 (5200 MHz)
Storage	1 TB SSD (Solid State Drive)
Graphics	Intel UHD Graphics (Integrated)
Operating System	Windows 11 Home
Wireless Connectivity	WiFi 6E (802.11ax), Bluetooth
LAN	Dual 2.5G LAN
Video Output	2x HDMI (Supports 4K @60Hz), 2x Thunderbolt 4 (DP 1.4 Alt-Mode up to 4K@60Hz)
USB Ports	4x USB 3.0 Ports (Type-A), 2x USB 3.2 Gen 2 Type-A Ports
Other Ports	Micro-SD Card Reader, Mic-in / Headphone-out Combo Jack, DC Jack, Kensington Lock Slot
Dimensions (LxWxH)	5.34 x 5.22 x 1.97 inches (13.56 x 13.26 x 5.00 cm)
Weight	3.17 pounds (1.44 kg)
Color	Black

9. WARRANTY AND SUPPORT

Your MSI Cubi NUC Desktop (Model: CUBINUC1M009) comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

For warranty claims, technical support, driver downloads, or further assistance, please visit the official MSI support website or contact MSI customer service directly.

MSI Support Website: www.msi.com/support

Please have your product model number (CUBINUC1M009) and serial number ready when contacting support.