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MSI CUBINUC1M010B

MSI Cubi NUC 1MG-010BUS Barebone Desktop User Manual

Model: CUBINUC1M010B

1. Introduction

This manual provides essential instructions for the setup, operation, and maintenance of your MSI Cubi NUC 1MG-010BUS Barebone Desktop. Please read this manual thoroughly before using the device to ensure proper functionality and safety. The MSI Cubi NUC is a compact, high-performance barebone mini PC designed for professional and personal use, offering flexibility for component installation.

2. Safety Information

Observe the following safety precautions to prevent damage to the device or injury to yourself:

- Always disconnect the power cord from the electrical outlet before cleaning or performing any maintenance.
- Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- Ensure proper ventilation around the device to prevent overheating.
- Use only approved power adapters and accessories.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

3. Package Contents

Verify that all items are present in your package:

- MSI Cubi NUC Barebone Desktop Unit
- User Manual (this document)
- Power Adapter (may vary by region)
- VESA Mount Kit (optional, may be included)

4. Product Overview

The MSI Cubi NUC is a compact barebone desktop. Below are illustrations of its key features and ports.



Figure 4.1: Front view of the MSI Cubi NUC Barebone Desktop. This image displays the compact black chassis with the power button, USB ports, and audio jack visible on the front panel.



Figure 4.2: Rear view of the MSI Cubi NUC Barebone Desktop. This image highlights the various connectivity options including USB ports, HDMI ports, Thunderbolt 4 ports, dual 2.5G LAN ports, and the power input.



Figure 4.3: Bottom view of the MSI Cubi NUC Barebone Desktop. This image shows the ventilation grilles and the four screw holes for VESA mounting, allowing the device to be attached to the back of a monitor or a wall.

5. Setup Instructions

As a barebone system, the MSI Cubi NUC requires the installation of RAM, storage, and an operating system before first use.

5.1 Installing RAM and Storage

1. **Power Off and Disconnect:** Ensure the device is powered off and unplugged from all power sources and peripherals.
2. **Open Chassis:** Carefully open the chassis according to the detailed instructions provided in the separate hardware installation guide (not included in this manual).
3. **Install DDR5 RAM:** Locate the DDR5 SO-DIMM slots. Align the RAM module with the slot notch and press down firmly until the clips on both sides lock into place. The system supports up to 64GB of DDR5 RAM.

4. **Install SSD:** Locate the M.2 SSD slot. Insert the SSD at an angle and secure it with the provided screw. The device also supports a 2.5-inch drive.
5. **Close Chassis:** Reassemble the chassis, ensuring all screws are tightened.

5.2 Connecting Peripherals

- **Display:** Connect your monitor(s) to the HDMI or Thunderbolt 4 ports. The Cubi NUC supports up to four displays simultaneously.
- **Keyboard and Mouse:** Connect your USB keyboard and mouse to the available USB ports.
- **Network:** For wired internet, connect an Ethernet cable to one of the dual 2.5G LAN ports. For wireless, ensure your WiFi 6E antenna is properly connected (if external) or that internal antennas are clear.
- **Power:** Connect the power adapter to the DC-in port on the rear of the device, then plug it into a power outlet.

5.3 Operating System Installation

This is a barebone system and does not include a pre-installed operating system. You will need to install your preferred operating system (e.g., Windows, Linux) from a bootable USB drive or other media. Refer to your chosen operating system's installation guide for detailed steps.

6. Operating Instructions

6.1 Power On/Off

- **Power On:** Press the power button located on the front panel. The power indicator light will illuminate.
- **Power Off:** To shut down the system, use the operating system's shutdown function. For a forced shutdown, press and hold the power button for approximately 5 seconds.

6.2 Display Configuration

The Cubi NUC supports up to four displays. You can connect monitors using a combination of HDMI and Thunderbolt 4 ports. Configure display settings through your operating system's display settings menu.

6.3 Network Connectivity

- **Wired LAN:** The dual 2.5G LAN ports provide high-speed wired network access. Connect an Ethernet cable to either port.
- **Wireless LAN (WiFi 6E):** The integrated WiFi 6E module provides high-speed wireless connectivity. Ensure drivers are installed and configure your wireless network through the operating system.

6.4 Thunderbolt 4 Functionality

The Thunderbolt 4 ports offer versatile connectivity, supporting data transfer, video output, and power delivery (up to 100W input). Use compatible Thunderbolt 4 devices and cables for optimal performance.

7. Maintenance

7.1 Cleaning

- Use a soft, dry cloth to clean the exterior of the device.
- For stubborn stains, lightly dampen the cloth with water or a mild, non-abrasive cleaner.
- Avoid spraying liquids directly onto the device.
- Regularly clean the ventilation grilles to prevent dust buildup, which can affect cooling performance.

7.2 Software Updates

Keep your operating system, drivers, and BIOS updated to ensure optimal performance, security, and compatibility. Visit the official MSI website for the latest drivers and BIOS updates for your model.

8. Troubleshooting

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

- **No Power:** Ensure the power adapter is securely connected to both the device and a working electrical outlet. Test the outlet with another device.
- **No Display:** Verify that the monitor is powered on and correctly connected to the Cubi NUC. Try a different display cable or port.
- **System Not Booting:** Check that RAM and SSD are correctly installed and seated. Ensure your bootable media for OS installation is properly prepared and selected in the BIOS/UEFI settings.
- **Network Connectivity Issues:** For wired connections, check the Ethernet cable and router/modem. For wireless, ensure WiFi is enabled and drivers are installed.
- **Overheating:** Ensure the device has adequate ventilation and that air vents are not obstructed. Clean any dust from the vents.

For further assistance, consult the MSI support website or contact customer service.

9. Specifications

Key technical specifications for the MSI Cubi NUC 1MG-010BUS:

Feature	Specification
Model Name	Cubi NUC 1MG-010BUS
Processor	Intel Core 5-120U (3.8 GHz, up to 5.0 GHz with Intel Turbo Boost Max Technology 3.0)
RAM Type	DDR5 (2X SO-DIMM slots, up to 64GB)
Memory Speed	5200 MHz
Storage Support	M.2 SSD, 2.5" SSD/HDD
Graphics	Integrated Intel Graphics
Display Output	HDMI, Thunderbolt 4 (supports up to 4 displays)
Networking	Dual 2.5G LAN, WiFi 6E (802.11ax)
USB Ports	4x USB 3.0, Thunderbolt 4 (USB-C)
Dimensions (LxWxH)	5.34 x 5.22 x 1.97 inches
Weight	3.2 pounds
Operating System	No OS (Barebone)

Feature	Specification
Included Components	Desktop, Manual

10. Warranty and Support

The MSI Cubi NUC 1MG-010BUS comes with a 3-Year Advance Replacement Warranty. For warranty claims, technical support, driver downloads, or additional product information, please visit the official MSI website or contact your local MSI service center.

MSI Official Website: www.msi.com

MSI Store: MSI Amazon Store

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