MINIX Z97 N97, Z83-4 MAX

MINIX Z97 N97 and Z83-4 MAX Mini PC Bundle User Manual

Comprehensive Guide for Setup, Operation, and Maintenance

1. INTRODUCTION

This user manual provides detailed instructions for the setup, operation, and maintenance of your MINIX Z97 N97 (12GB/512GB) and Z83-4 MAX (4GB/128GB) Mini PC Bundle. This bundle offers versatile computing solutions for various environments, from home and office use to industrial applications like digital signage and thin client solutions. Please read this manual thoroughly before using your devices to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

Your MINIX Mini PC bundle includes two distinct units, each designed for specific performance and application needs:

2.1. MINIX Z97 N97 Mini PC

The MINIX Z97 is a high-performance mini PC equipped with an Intel Alder Lake N97 processor, 12GB LPDDR5X RAM, and a 512GB NVMe SSD. It supports 4K triple display output and features active cooling for sustained performance. Its compact size makes it suitable for various setups, including VESA mounting.

Image: The MINIX Z97 Mini PC, showcasing its compact design and various ports. A hand points towards the device, emphasizing its small footprint.
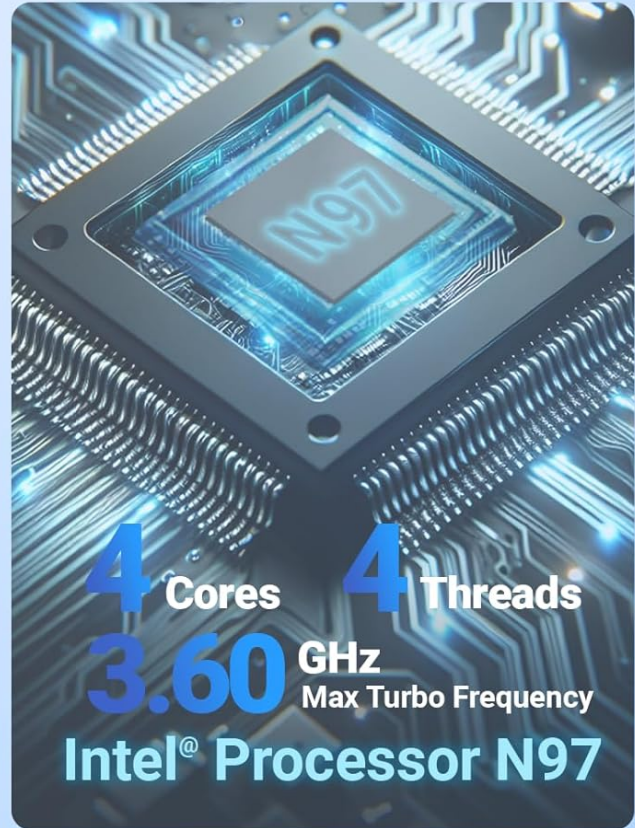
Image: Detailed view of the MINIX Z97's internal components, highlighting the Intel N97 processor, 12GB LPDDR5X RAM, 512GB NVMe SSD, and active cooling design.

2.2. MINIX Z83-4 MAX Mini PC

The MINIX Z83-4 MAX is a fanless mini PC with an Intel Cherry Trail processor, 4GB RAM, and 128GB storage. It is designed for industrial applications, digital signage, and POS solutions, offering silent operation and robust connectivity options including Dual-Band Wi-Fi and Gigabit Ethernet.

Image: The MINIX Z83-4 MAX Mini PC, featuring its external Wi-Fi antenna and compact form factor.
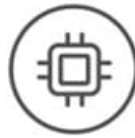
TRUE 4K MINI PC

Fanless. Zero Noise, Zero Disturbance.
VESA Mount included for fast and easy installation
Support Auto Power On

4K UHD   **Windows 10 Pro**   **Intel 64-bit**   **64GB eMMC (5.1)**   **Dual-Band WIFI**

Vesa Mount

Image: The MINIX Z83-4 MAX highlighting its fanless design, 4K capability, Windows 10 Pro, Intel 64-bit processor, 64GB eMMC (note: product description states 128GB, image shows 64GB), Dual-Band WiFi, and VESA mount compatibility.

Image: Both the MINIX Z97 (right) and Z83-4 MAX (left) Mini PCs displayed together, illustrating their relative sizes and designs.

3. SETUP GUIDE

Follow these steps to set up your MINIX Mini PC.

3.1. Initial Setup

1. **Unpack:** Carefully remove the Mini PC and all accessories from the packaging.

2. **Connect Peripherals:**

   - Connect your monitor(s) to the appropriate video output ports (HDMI, DisplayPort) on the Mini PC.
   - Connect your USB keyboard and mouse to the available USB ports.
   - For wired network access, connect an Ethernet cable to the Gigabit Ethernet port.

3. **Power Connection:** Connect the power adapter to the DC IN port on the Mini PC, then plug the adapter into a power outlet.

4. **Power On:** Press the power button on the Mini PC. The device will boot up, and you should see the operating system loading on your display.

3.2. VESA Mount Installation (Optional)

Both Mini PCs support VESA mounting, allowing you to attach them to the back of a compatible monitor or TV for a clutter-free setup.

1. Attach the VESA mount bracket (included with Z83-4 MAX, check Z97 accessories) to the Mini PC using the provided screws.

2. Align the bracket with the VESA mounting holes on your monitor (typically 75x75mm or 100x100mm).

3. Secure the Mini PC to the monitor using the appropriate screws.

Image: The MINIX Z97 Mini PC shown next to a smartphone for size comparison, and an illustration of how it can be VESA mounted to the back of a monitor.

4. OPERATING INSTRUCTIONS

4.1. Operating System (Windows 10 Pro)

Both Mini PCs come pre-installed with Windows 10 Pro. Upon first boot, you may need to complete the initial Windows setup process, including region, language, and network settings.

- **Network Connection:**

  - **Wi-Fi:** Click the network icon in the system tray, select your Wi-Fi network, enter the password, and connect. Both devices support Dual-Band Wi-Fi.
  - **Ethernet:** If an Ethernet cable is connected, the system will automatically establish a wired network connection.

- **Bluetooth:** Enable Bluetooth in Windows settings to connect wireless peripherals such as keyboards, mice, or headphones.

4.2. Multi-Display Setup

The MINIX Z97 supports triple 4K display output, while the Z83-4 MAX supports dual display output. This allows for enhanced productivity and multitasking.

- Connect your monitors to the available HDMI and DisplayPort (DP) outputs on the Mini PC.

- In Windows, right-click on the desktop and select "Display settings" to configure your displays (extend, duplicate, or show only on one).

Image: A workstation setup demonstrating the MINIX Z97 Mini PC connected to three 4K displays, showcasing its triple display capability.

Multi-Display Ready & Native 4K Output

Supports 2 displays with HDMI and Mini DP interfaces.
Enjoy 4K Ultra HD videos.

HDMI

Mini DP

Image: An illustration of the MINIX Z97 Mini PC's multi-display readiness, showing connections to two displays via HDMI and Mini DisplayPort.

4.3. BIOS Settings and Advanced Features

Both Mini PCs offer advanced features configurable in the BIOS:

- **Auto Power-on:** This feature allows the Mini PC to automatically power on when electricity is restored after a power outage. This is particularly useful for digital signage or unattended installations. This option can be enabled within the BIOS menu of both the Z97 and Z83-4 MAX.

- **RTC Wake Up:** Real-Time Clock Wake Up allows you to schedule a specific time for the Mini PC to power on automatically. This is also configured in the BIOS. (Applicable to Z97)

- **Wake On LAN (WOL):** This feature allows you to remotely power on the Mini PC over a network connection. This option can be enabled within the BIOS menu of both the Z97 and Z83-4 MAX.

To access the BIOS, repeatedly press the **DEL** or **F2** key immediately after powering on the device.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your MINIX Mini PCs.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the Mini PC. Avoid using liquid cleaners or aerosols directly on the device.
- **Ventilation:** Ensure that the ventilation openings are not blocked. The Z97 has active cooling, while the Z83-4 MAX is fanless, but both require adequate airflow to dissipate heat.
- **Software Updates:** Regularly update your Windows operating system and drivers to ensure security and performance.
- **Environmental Conditions:** Operate the Mini PCs in a well-ventilated area, away from direct sunlight, excessive heat, humidity, or dust.

6. TROUBLESHOOTING

If you encounter issues with your MINIX Mini PC, refer to the following common troubleshooting steps:

Problem	Possible Solution
No display output	- Check if the monitor is powered on and set to the correct input source. - Ensure video cables (HDMI/DP) are securely connected to both the Mini PC and the monitor. - Try a different video cable or monitor if possible.
Mini PC does not power on	- Verify the power adapter is correctly connected to the Mini PC and the power outlet. - Ensure the power outlet is functional. - Press the power button firmly.
No network connection (Wi-Fi/Ethernet)	- For Wi-Fi, check if the Wi-Fi adapter is enabled in Windows settings and if you've entered the correct password. - For Ethernet, ensure the cable is properly connected and your router is working. - Restart the Mini PC and your router.
System is slow or unresponsive	- Close unnecessary applications running in the background. - Check for Windows updates and driver updates. - Ensure adequate ventilation, especially for the Z97 with active cooling. - Perform a system restart.

If the problem persists, please refer to the Support section.

7. SPECIFICATIONS

Detailed specifications for the MINIX Z97 N97 and Z83-4 MAX Mini PCs:

7.1. MINIX Z97 N97 Specifications

Feature	Detail
Processor	Intel Alder Lake N97 (4 Cores/4 Threads, Up to 3.6GHz)
RAM	12GB LPDDR5X 4000MHz
Storage	512GB M.2 2280 PCIe 3.0 NVMe SSD

Feature	Detail
Graphics	Intel UHD Graphics, supports 4K Triple Display (HDMI 2.1, DP 1.4)
Network	Dual 1G Ethernet, Wi-Fi 6, Bluetooth 5.2
Operating System	Windows 10 Pro
Dimensions	Approximately 3.5 x 3.5 x 1.65 inches
Cooling	Active Cooling Design

7.2. MINIX Z83-4 MAX Specifications

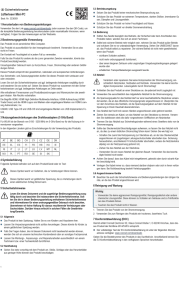| Feature	Detail
Processor	Intel Cherry Trail
RAM	4GB
Storage	128GB eMMC
Graphics	Supports 4K, Dual Output (Mini DisplayPort, HDMI)
Network	Dual-Band 802.11ac Wi-Fi, Gigabit Ethernet, Bluetooth 4.2
Operating System	Windows 10 Pro
Cooling	Fanless Design

8. WARRANTY AND SUPPORT

MINIX is committed to providing excellent customer support. If you encounter any issues with your product or require assistance, please contact us.

MINIX Support: If the product has any problem, you can contact us via our e-mail, and we will do everything possible to resolve your problem. Make you satisfied is our eternal purpose.

Please refer to the official MINIX website or your purchase documentation for specific warranty terms and contact information.

Related Documents - Z97 N97, Z83-4 MAX

	[MINIX NEO Z83-4 Max Fanless Mini PC Setup Guide](#) A comprehensive setup guide for the MINIX NEO Z83-4 Max fanless mini PC, covering specifications, connections, and basic setup for Windows 10 Pro.
	[MINIX NEO Z83-4 Max Fanless Mini PC User Guide](#) Comprehensive guide for the MINIX NEO Z83-4 Max fanless mini PC, covering specifications, contents, overview of ports and features, and setup instructions.

[Minix Fanless Mini PC (Model 3338301) - Safety and Technical Data](#)
Comprehensive safety instructions, intended use, wireless restrictions, and technical specifications for the Minix Fanless Mini PC (Item No. 3338301). Learn about proper handling, operation, cleaning, and disposal.

[MINIX NEO U22-XJ Max: 4K Ultra HD Android Media Hub User Guide](#)
Explore the features and setup of the MINIX NEO U22-XJ Max, a 4K Ultra HD Android Media Hub. This user guide covers specifications, connectivity, basic setup, and control functions for enhanced home entertainment.

[MINIX U8K-ULTRA 8K UHD AI Media Hub User Guide](#)
Comprehensive user guide for the MINIX U8K-ULTRA, an 8K UHD AI Media Hub powered by Android. Learn about specifications, setup, and controls.

[MINIX NEO G4 Dual Core Pocket PC Setup Guide](#)
Setup guide for the MINIX NEO G4 Dual Core Pocket PC running Android. Learn how to connect, perform basic setup, use Google Play Store, and control your device.