**MINIX NEO Z350-0dB**

# MINIX NEO Z350-0dB Mini PC User Manual

Model: NEO Z350-0dB

## 1. INTRODUCTION

The MINIX NEO Z350-0dB is a high-performance, fanless mini PC designed for a wide range of applications, from business and home office tasks to media consumption and multi-tasking. Featuring an Intel i3-N350 processor and a silent, dust-free design, it offers reliable and efficient computing in a compact form factor.

Key features include:

- **Efficient Performance:** Powered by Intel Twin Lake-N N350 octa-core processor and Intel UHD Graphics for smooth daily tasks.
- **Silent Fanless Design:** Passive cooling system ensures quiet operation, ideal for noise-sensitive environments.
- **Reliable 24/7 Operation:** Engineered for continuous performance under heavy loads.
- **Durable Anti-Static Protection:** Safeguards the system against electromagnetic interference for prolonged hardware life.
- **Effective Multitasking:** Multi-core architecture supports smooth operation of various applications.
- **Energy-Efficient Design:** Reduces power consumption while delivering high performance.

## 2. PRODUCT OVERVIEW

Figure 2.1: Front view of the MINIX NEO Z350-0dB Mini PC, showcasing its compact design and fanless heat sink fins.

Figure 2.2: Diagram highlighting key features of the MINIX NEO Z350-0dB, including Intel 12th Gen N350 processor, 8 cores, 2.5Gbps LAN, WiFi 6 (AX201), Bluetooth 5.2, 16GB DDR4 3200MHz RAM, PCIe 3.0 X4 512GB SSD, and Quiet-0dB Design.

# 3. Setup Guide

## 3.1 Package Contents

Please verify that all items are present in the package:

- 1 x MINIX NEO Z350 Mini PC
- 2 x Dual band Antenna
- 1 x HDMI Cable
- 1 x VESA Mount
- 1 x Power Adapter
- 1 x User Manual (this document)

## 3.2 Connecting Your Mini PC

1.  **Attach Antennas:** Screw the two dual-band antennas onto the corresponding connectors at the rear of the Mini PC. Ensure they are securely tightened.
2.  **Connect Display:** Connect your monitor(s) to the HDMI 2.0 ports on the Mini PC using the provided HDMI cable. The device supports dual 4K@60Hz displays.
3.  **Connect Peripherals:** Plug in your keyboard, mouse, and any other USB devices into the available USB 2.0 or USB 3.2 Gen 2 ports.
4.  **Network Connection:** For a wired connection, connect an Ethernet cable to the 2.5G Ethernet port. For wireless, ensure antennas are attached and configure Wi-Fi after initial boot.
5.  **Power Connection:** Connect the power adapter to the DC 12V-19V Power Jack on the Mini PC, then plug the adapter into a power outlet.



Figure 3.1: Detailed diagram of the MINIX NEO Z350-0dB Mini PC ports, including TF card slot, USB-C (Data Only), USB 3.2 Gen 2, 3.5mm Audio Jack, Power Button, Antenna Screw Mounts, HDMI 2.0 (4K@60Hz), 2.5G Ethernet, USB 2.0, DC 12V-19V Power Jack, and Reset Button.

# 4. OPERATING INSTRUCTIONS

## 4.1 Initial Boot and Windows Setup

After connecting all necessary components, press the power button located on the front of the Mini PC. The system will boot into Windows 11 Pro. Follow the on-screen instructions to complete the initial Windows setup, including language, region, network connection (if not wired), and user account creation.

## 4.2 Daily Use

The MINIX NEO Z350-0dB is optimized for efficient multitasking and a smooth user experience. Its Intel i3-N350 processor and 16GB DDR4 RAM allow for seamless operation of various applications simultaneously.

- **Dual Display Support:** Utilize the two HDMI 2.0 ports to extend your workspace across two 4K monitors for enhanced productivity or immersive media viewing.
- **High-Speed Networking:** The 2.5G LAN port provides ultra-fast wired network connectivity, ideal for large file transfers and stable online activities. Integrated Wi-Fi 6 (AX201) and Bluetooth 5.2 offer robust wireless options.
- **Storage:** The 512GB M.2 PCIe Gen3 x 4 SSD ensures fast boot times and quick application loading.

Figure 4.1: The MINIX NEO Z350-0dB Mini PC connected to two 4K monitors, demonstrating its dual display capability for enhanced productivity.

Figure 4.2: Close-up of the MINIX NEO Z350-0dB Mini PC's 2.5G LAN port, illustrating its ultra-fast wired network capability.

# 5. MAINTENANCE

## 5.1 Fanless Design Benefits

The NEO Z350-0dB features a passive cooling system, eliminating the need for internal fans. This design offers several advantages:

- **0dB Silent Operation:** No moving parts means absolutely no fan noise, making it ideal for quiet environments like home theaters, libraries, or offices.
- **Dust-Free Operation:** Without fans, dust and debris cannot be drawn into the system, reducing the risk of component damage and improving longevity.
- **Reduced Maintenance:** No fan cleaning or replacement is required, simplifying long-term care.

Figure 5.1: Comparison illustrating the advantages of the fanless design, highlighting 0dB sound, lower power consumption (12W typical, 25W max), and reduced maintenance compared to fan-cooled systems.

## 5.2 General Care

- **Placement:** Place the Mini PC in a well-ventilated area to allow for optimal heat dissipation. Avoid placing it in enclosed spaces or on soft surfaces that may block airflow around the chassis.
- **Cleaning:** Periodically wipe the exterior of the device with a soft, dry cloth to remove dust. Do not use liquid cleaners or abrasive materials.
- **Temperature:** While designed to handle heat, the top cover may become warm during extended use. This is normal for fanless systems. Keep it out of reach of children.

# 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your MINIX NEO Z350-0dB Mini PC.

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|  |  |  |

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
| No power/Does not turn on | Power adapter not connected properly; Power outlet issue. | Ensure power adapter is securely connected to the Mini PC and a working power outlet. Try a different outlet. |
| No display output | HDMI cable loose or faulty; Incorrect input selected on monitor. | Check HDMI cable connections. Try a different HDMI port or cable. Ensure your monitor is set to the correct input source. |
| Wi-Fi/Bluetooth connectivity issues | Antennas not attached; Driver issues; Router problems. | Ensure antennas are securely attached. Check device manager for Wi-Fi/Bluetooth drivers. Restart your router. |
| System slow or unresponsive | Too many applications running; Overheating (rare for fanless but possible in extreme conditions). | Close unnecessary applications. Ensure the Mini PC is in a well-ventilated area. Check for Windows updates. |
| Cannot connect to 2.5G LAN | Ethernet cable faulty; Router/switch not supporting 2.5G; Driver issues. | Verify Ethernet cable. Ensure your network hardware supports 2.5G. Update network drivers. |

For further assistance, please refer to the support information in Section 8.

# 7. TECHNICAL SPECIFICATIONS

| Feature | Specification |
|---------|---------------|
| Processor | Intel Core i3-N350 (3.9 GHz) |
| Graphics Coprocessor | Intel UHD Graphics |
| RAM | 16 GB DDR4 SDRAM |
| Storage | 512 GB M.2 PCIe Gen3 x 4 SSD |
| Operating System | Windows 11 Pro |
| Max Screen Resolution | 3840 x 2160 Pixels (4K@60Hz) |
| Wireless Type | 802.11ax (Wi-Fi 6), Bluetooth 5.2 |
| USB 2.0 Ports | 2 |
| USB 3.0 Ports | 2 (USB 3.2 Gen 2) |
| Ethernet | 2.5G LAN |
| Item Weight | 1.98 pounds |
| Product Dimensions | 4.84 x 4.72 x 1.69 inches |

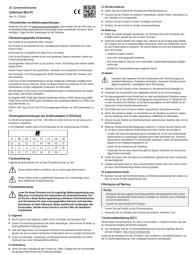| Feature | Specification |
|---------|---------------|
| Batteries | 1 C battery required (included) |

## 8. WARRANTY AND SUPPORT

MINIX products are designed for reliability and durability. For any inquiries or support needs, please use the following resources:

- **Online Support:** For product questions or technical assistance, you can log in to your Amazon account, navigate to "Your Orders," and select "Ask Product Question" for this item.
- **Official Website:** For offline maintenance services and additional resources, please visit the official MINIX website.
- **MINIX Brand Store:** Explore other MINIX products and information at the official MINIX Amazon Store.

## Related Documents - NEO Z350-0dB

| | |
|---|---|
| | [Minix NEO J50C-8SE Mini PC User Guide](#)<br>User guide for the Minix NEO J50C-8SE Mini PC featuring Intel Celeron J4125 processor, 8 GB RAM, 240 GB SSD, and Windows 10 Pro. Learn about setup and usage. |
| | [Minix Fanless Mini PC (Model 3338301) - Safety and Technical Data](#)<br>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 Z83-4 Max Fanless Mini PC User Guide](#)<br>Comprehensive guide for the MINIX NEO Z83-4 Max fanless mini PC, covering specifications, contents, overview of ports and features, and setup instructions. |
| | [MINIX NEO Z83-4 Max Fanless Mini PC Setup Guide](#)<br>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 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.



[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.