

MINIX NEO Z100-0dB (256GB)

MINIX Z100-0dB Fanless Mini PC User Manual

Model: NEO Z100-0dB (256GB) | Brand: MINIX

1. PRODUCT OVERVIEW

The MINIX Z100-0dB Fanless Mini PC is a compact desktop computer designed for quiet and efficient operation. It features an Intel 12th Gen N100 processor, 8GB DDR4 RAM, and a 256GB M.2 PCIe Gen3 x 4 NVMe SSD, pre-installed with Windows 11 Pro. This mini PC supports 4K dual display output and offers versatile connectivity options including 2.5G LAN, USB 3.2, and USB-C.



Image: Front view of the MINIX Z100-0dB Fanless Mini PC, showcasing its compact design and finned heat sink for passive cooling.

What's in the Box:

- 1 x MINIX NEO Z100 Mini PC
- 2 x Dual band Antenna
- 1 x HDMI Cables
- 1 x Vesa Mount with Screws
- 1 x Power Adapter with US/EU/UK Plug
- 1 x User Manual

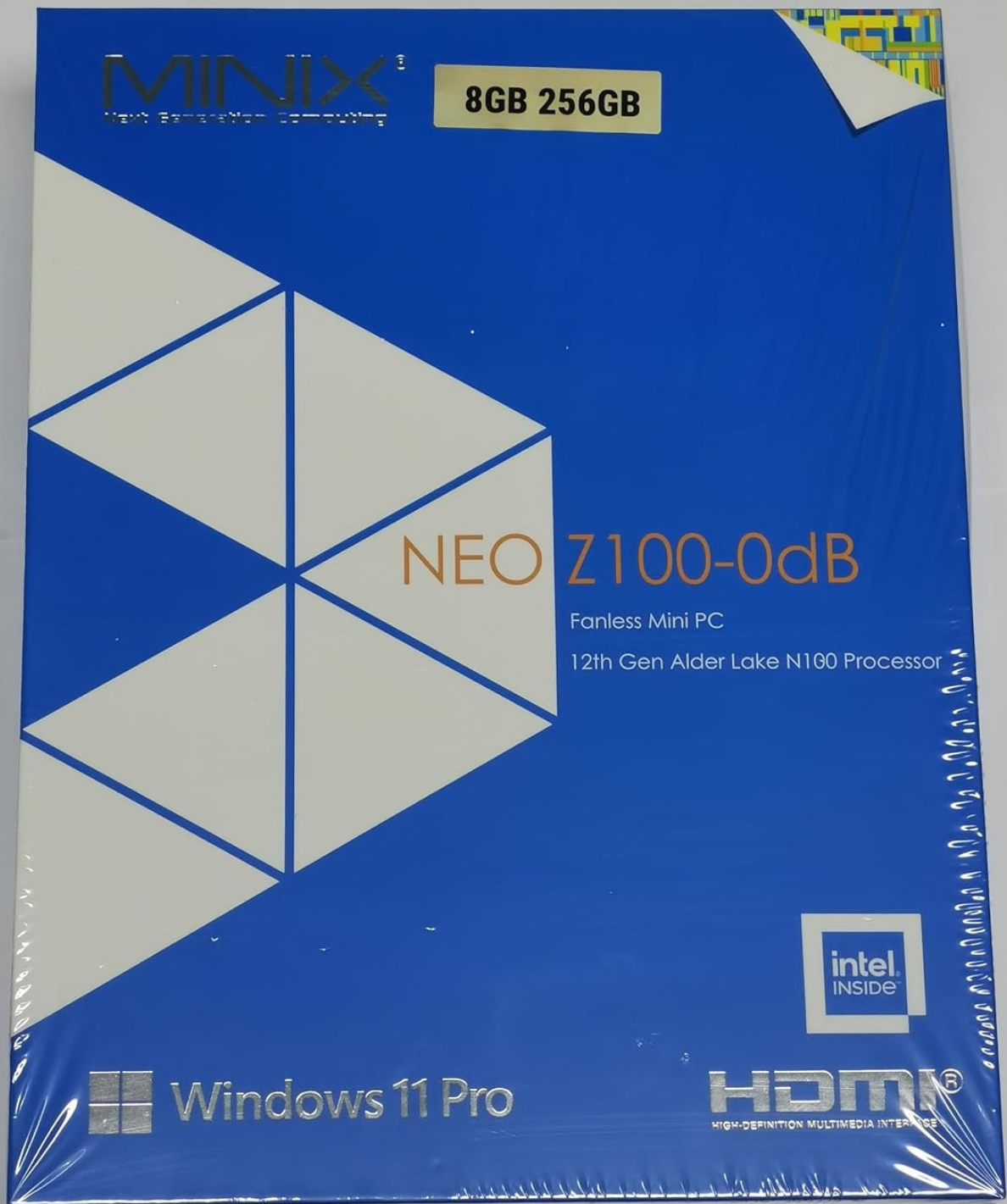


Image: The retail box for the MINIX Z100-0dB, indicating the included components and pre-installed Windows 11 Pro.

2. SETUP AND INSTALLATION

2.1 Connecting Peripherals

Before powering on your MINIX Z100-0dB, connect all necessary peripherals such as monitor(s), keyboard, and mouse.

1. **Connect Display:** Use the provided HDMI cable to connect your monitor to one of the HDMI 2.0 ports on the back of the Mini PC. The device supports dual 4K@60Hz displays.
2. **Connect USB Devices:** Plug your keyboard and mouse into the available USB 3.2 ports. The device features 1x USB 3.2 Gen 2 Type-C, 2x USB 3.2 Type-A, and 2x USB 2.0 ports.
3. **Connect Network:** For wired internet access, connect an Ethernet cable to one of the 2.5G LAN ports. For wireless connectivity, ensure the dual-band antennas are securely attached.
4. **Connect Audio:** If using external speakers or headphones, connect them to the 3.5mm audio jack.

Product Overview

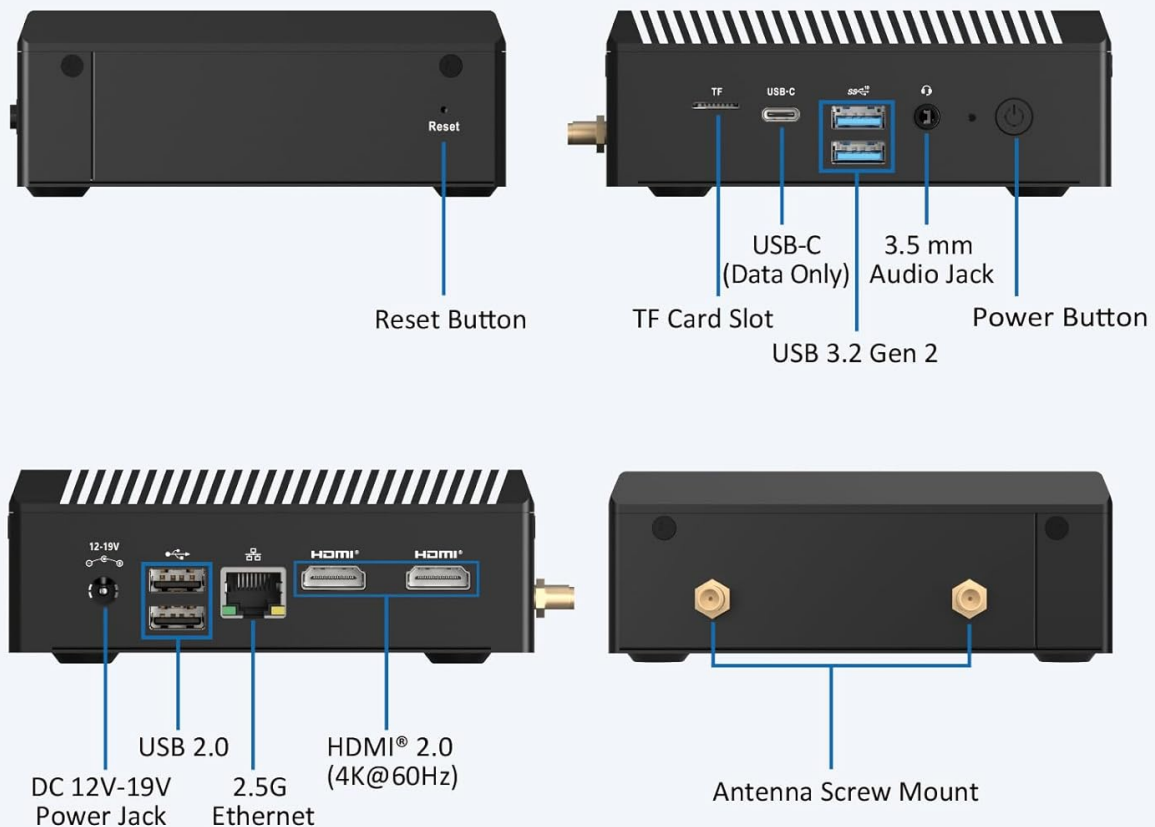


Image: Detailed view of the MINIX Z100-0dB's ports, including USB-C, USB 3.2, 3.5mm audio jack, power button on the front, and DC 12V-19V power jack, USB 2.0, 2.5G Ethernet, HDMI 2.0, and antenna screw mounts on the back.

2.2 Powering On

1. Connect the power adapter to the DC 12V-19V Power Jack on the Mini PC.
2. Plug the power adapter into a wall outlet.
3. Press the Power Button located on the front of the Mini PC. The device will boot up and display the Windows 11 Pro operating system.

Your browser does not support the video tag.

Video: An unboxing and setup guide for the MINIX Z100-0dB Fanless Mini PC, demonstrating how to connect the antennas, power adapter, and other accessories.

3. OPERATING INSTRUCTIONS

3.1 Windows 11 Pro

The MINIX Z100-0dB comes pre-installed with Windows 11 Pro. Follow the on-screen prompts for initial setup, including language selection, network connection, and user account creation.

3.2 Dual Display Setup

To utilize the dual 4K display capability, connect two monitors to the available HDMI ports. Windows 11 will automatically detect the displays. You can configure display settings (extend, duplicate, or second screen only) via the Display Settings in Windows.



Image: A MINIX Z100-0dB connected to two monitors, demonstrating its dual 4K display capability for enhanced productivity.

3.3 BIOS Settings

To access the BIOS settings, power on the device and continuously press the 'DEL' key until the BIOS interface appears. Here you can configure advanced settings such as:

- **Wake On LAN:** Go to 'Advanced' > 'Power Settings', set the 'LAN Wakeup' option to 'Enabled/Disabled'.
- **RTC Wake Up:** Go to 'Advanced' > 'Power Settings', set the 'RTC Wakeup from S5' option to 'Enabled/Disabled'.
- **AC Power Loss (Auto Power On):** Go to 'Advanced' > 'Power Settings', set the 'Power Loss' option to 'On/Off'. Then click 'F4' and 'Yes' to save configuration and reset.

4. KEY FEATURES AND ADVANTAGES

- **Intel Alder Lake-N Quad-Core N100 Processor:** Efficient for fanless mini PCs, offering good performance for basic tasks with Intel UHD Graphics. Its low power usage and affordability make it suitable for web browsing and office applications.
- **Fanless Passive Cooling Design:** The Z100-0dB excels in scenarios prioritizing noise reduction, reliability, low maintenance, dust-free operation, no vibration, energy efficiency, and a compact form factor. Ideal for home entertainment, office settings, industrial applications, and noise-sensitive environments.

Intel 12th Gen N100 Fanless Mini PC

Z100-0dB (256GB)



24EUs
Intel® UHD
Graphics

750MHz
Graphics Max
Dynamic Frequency



2.5Gbps Lan
High Speed and Stable



WiFi 6
(AX201)
Bluetooth5.2



16GB DDR4
3200MHz



PCIe 3.0 X4
256GB



Quiet-0dB
Design

Image: Diagram illustrating the fanless passive cooling system of the Z100-0dB, where the special metal shell conducts internal heat to the environment.

- **Efficient RAM Cooling:** An exclusive feature that enhances thermal dissipation, safeguarding memory performance and reliability. This ensures optimal functionality without compromising design or silence.

Advantages of Fanless



Image: Visual representation of the RAM with heatsink cooling, showing heat dissipation arrows for optimal memory performance.

- **No Throttling:** The Z100-0dB preserves full CPU power without underclocking to mitigate heat, ensuring sustained performance, optimal power usage, and reliability.
- **Anti-Static Design:** Robust anti-static hardware protection minimizes the risk of damage from electrostatic discharge, ensuring superior reliability, extended lifespan, and sustained performance.

5. MAINTENANCE

The fanless design of the MINIX Z100-0dB significantly reduces maintenance requirements. However, regular care can prolong its lifespan and ensure optimal performance.

- **Cleaning:** Periodically wipe the exterior of the Mini PC with a soft, dry cloth to remove dust. Avoid using liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the Mini PC is placed in a well-ventilated area to allow for proper heat dissipation. Do not block the cooling fins.
- **Software Updates:** Regularly update Windows 11 Pro and device drivers to ensure system stability and

security.

6. TROUBLESHOOTING

Common Issues and Solutions:

- **No Display Output:**
 - Ensure the HDMI cable is securely connected to both the Mini PC and the monitor.
 - Verify the monitor input source is set correctly (e.g., HDMI 1, HDMI 2).
 - Try a different HDMI cable or monitor to rule out faulty equipment.
- **No Power:**
 - Check if the power adapter is securely connected to the Mini PC and the wall outlet.
 - Ensure the wall outlet is functional by plugging in another device.
 - Press the power button firmly.
- **System Running Hot:**
 - While the fanless design means the case will get warm, ensure there is adequate airflow around the device.
 - Avoid placing the Mini PC in enclosed spaces or on soft surfaces that can block heat dissipation.
 - Reduce heavy workload if sustained high temperatures are observed.
- **Wi-Fi/Bluetooth Connectivity Issues:**
 - Ensure the external antennas are securely attached to the Mini PC.
 - Check Wi-Fi and Bluetooth settings in Windows 11 to ensure they are enabled.
 - Restart the Mini PC and your router/modem.

For further assistance, please refer to the official MINIX website or contact customer support.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Processor	Intel Alder Lake-N Quad-Core N100
Graphics	Intel UHD Graphics
RAM	8 GB DDR4 (3200 MHz)
Storage	256 GB M.2 PCIe Gen3 x 4 NVMe SSD
Operating System	Windows 11 Pro

Video Output	2 x HDMI 2.0 (4K@60Hz)
LAN	2.5G Ethernet
Wireless Connectivity	Wi-Fi 6 (802.11ax), Bluetooth 5.2
USB Ports	1 x USB 3.2 Gen 2 Type-C, 2 x USB 3.2 Type-A, 2 x USB 2.0
Audio Output	3.5mm Audio Jack
Dimensions (LxWxH)	4.84 x 4.72 x 1.81 inches
Weight	1.96 pounds

8. WARRANTY AND SUPPORT

MINIX products are designed for reliability and performance. For any inquiries or support needs, please refer to the following:

Warranty Information:


Please refer to the warranty card included with your product or visit the official MINIX website for detailed warranty terms and conditions.



Customer Support:

- **Online Support:** Visit the official MINIX website for FAQs, driver downloads, and support resources.
- **Contact Us:** For direct assistance, you can contact MINIX customer service through their official channels.
- **Amazon Support:** For purchases made on Amazon, you can contact support via "Login Amazon" -> "Your Account" -> "Your orders" -> "Ask Product Question".

Official Website: www.minix.com.hk
MINIX Forum: www.theminixforum.com

Related Documents - NEO Z100-0dB (256GB)

	<p>MINIX NEO Z83-4 Max Fanless Mini PC User Guide</p> <p>Comprehensive guide for the MINIX NEO Z83-4 Max fanless mini PC, covering specifications, contents, overview of ports and features, and setup instructions.</p>
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	<p>MINIX NEO Z83-4 Max Fanless Mini PC Setup Guide</p> <p>A comprehensive setup guide for the MINIX NEO Z83-4 Max fanless mini PC, covering specifications, connections, and basic setup for Windows 10 Pro.</p>
	<p>Minix NEO J50C-8SE Mini PC User Guide</p> <p>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.</p>
	<p>Minix Fanless Mini PC (Model 3338301) - Safety and Technical Data</p> <p>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.</p>
	<p>MINIX NEO G4 Dual Core Pocket PC Setup Guide</p> <p>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.</p>
	<p>Minix Mini Personal Computer Safety and Technical Specifications</p> <p>Comprehensive safety instructions, operating guidelines, and detailed technical specifications for the Minix Mini Personal Computer (Models 3461449, 3457620), including wireless adapter details and compliance information.</p>