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> NiPoGi E3B Mini PC AMD Ryzen 7 7730U User Manual

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Model: E3B

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your NiPoGi E3B Mini PC. This compact desktop computer features an AMD Ryzen 7 7730U processor, 16GB DDR4 RAM, and a 512GB NVMe PCIe SSD, designed for efficient productivity, multimedia, and light gaming.



Image 1.1: Front view of the NiPoGi E3B Mini PC.

AMD Ryzen 7 7730U
 8/16 Cores/Threads, 16MB Cache, 4.5 GHz Fréquence Turbo

AMD Radeon Graphics
 8 Cores (Nombre de cœurs Graphiques), 2000MHz Fréquence Graphique, 4K@60Hz UHD

16GB DDR4 3200MHz
 Max 64GB

512GB M.2 SSD
 Max 4TB

Affichage triple écran 4K UHD
 HDMI 2.0 / Type-C / DP1.4

WiFi 6 and **Bluetooth 5.2**

Image 1.2: Overview of the NiPoGi E3B Mini PC's main features including CPU, GPU, RAM, SSD, and connectivity.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- NiPoGi E3B Mini PC
- Power Adapter (Type E/F – 2 pins hybrid EU)
- HDMI Cable
- VESA Mount Bracket and Screws
- User Manual (this document)

3. SETUP INSTRUCTIONS

3.1 Connecting Peripherals

Before powering on your Mini PC, connect all necessary peripherals.

1. **Connect Display:** Use an HDMI, DisplayPort, or USB-C cable to connect your monitor(s) to the corresponding ports on the Mini PC. The device supports up to three 4K@60Hz displays simultaneously.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any of the available USB 3.2 Gen2 ports.
3. **Connect Network (Optional):** For a wired internet connection, connect an Ethernet cable to the RJ45 LAN port. For wireless, ensure your Wi-Fi network is available during initial setup.
4. **Connect Power:** Plug the power adapter into the DC port on the Mini PC, then connect it to a power outlet.



Image 3.1: Front and rear interface ports of the NiPoGi E3B Mini PC.

3.2 Initial Power On

Press the power button located on the front of the Mini PC. The system will boot up and guide you through the Windows 11 Pro initial setup process. It is recommended to complete the initial Windows setup without an internet connection to avoid immediate system updates, which can prolong the first boot experience.

3.3 VESA Mount Installation (Optional)

The NiPoGi E3B Mini PC includes a VESA mount bracket, allowing you to attach it to the back of a compatible monitor or to a wall mount. This helps in maintaining a tidy workspace.

1. Attach the VESA bracket to the back of your monitor using the provided screws.
2. Slide the Mini PC onto the mounted bracket until it clicks securely into place.



Image 3.2: NiPoGi E3B Mini PC mounted behind a monitor using the VESA bracket.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

The NiPoGi E3B Mini PC comes pre-installed with Windows 11 Pro, offering a familiar and user-friendly operating environment.

- **Power On/Off:** Press the power button to turn the PC on. To turn off, use the Windows shutdown option or press and hold the power button for 5 seconds.
- **Restart:** Use the Windows restart option.
- **Sleep Mode:** Use the Windows sleep option or briefly press the power button.

4.2 Multi-Display Setup

The Mini PC supports connecting up to three displays simultaneously via HDMI 2.0, DisplayPort 1.4, and USB-C, all capable of 4K@60Hz resolution.

1. Connect your monitors to the available video output ports.
2. Once connected, Windows will automatically detect the displays. You can configure display settings (extend, duplicate, or show only on one) via *Settings > System > Display*.



Image 4.1: Example of a triple-screen display setup with the Mini PC.

4.3 Network and Connectivity

The Mini PC offers robust connectivity options:

- **Wi-Fi 6:** Provides faster wireless speeds and lower latency. Connect via Windows network settings.
- **Bluetooth 5.2:** For connecting wireless peripherals like headphones, keyboards, or mice. Pair devices via Windows Bluetooth settings.
- **Gigabit Ethernet:** For a stable and high-speed wired network connection.



Image 4.2: Illustration of Wi-Fi 6 and Bluetooth 5.2 capabilities.

5. MAINTENANCE AND UPGRADES

5.1 Storage and Memory Expansion

The NiPoGi E3B Mini PC offers options for memory and storage upgrades.

- **RAM:** The 16GB DDR4 3200MHz RAM can be expanded up to 64GB (2 x 32GB).
- **SSD:** The pre-installed 512GB M.2 2280 NVMe PCIe SSD can be expanded up to 4TB (2 x 2TB). The device includes one M.2 slot that supports M.2 SATA SSDs and another M.2 slot that supports M.2 PCIe/SATA SSDs.

Note: Upgrading internal components requires opening the device. Exercise caution and refer to specific upgrade guides if

unsure.



Image 5.1: Internal view showing RAM and SSD slots for expansion.

5.2 Heat Dissipation

The Mini PC is equipped with a high-speed silent axial fan and dual exhaust vents to ensure efficient heat dissipation and quiet operation.

- Keep the vents clear of obstructions to ensure proper airflow.
- Regularly clean dust from the exterior vents using compressed air.



Image 5.2: Exploded view illustrating the internal cooling system.

6. TROUBLESHOOTING

If you encounter issues with your NiPoGi E3B Mini PC, refer to the following common troubleshooting steps:

- **No Power:**
 - Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
 - Verify the power outlet is functional by plugging in another device.
- **No Display:**

- Check that the monitor is powered on and the correct input source is selected.
- Ensure video cables (HDMI, DisplayPort, USB-C) are securely connected to both the Mini PC and the monitor.
- Try connecting to a different display or using a different video cable.

- **No Internet Connection (Wi-Fi):**

- Verify Wi-Fi is enabled in Windows settings.
- Ensure your Wi-Fi router is powered on and broadcasting.
- Restart your router and the Mini PC.
- For Linux users, note that the MediaTek MT7902 Wi-Fi adapter may not be supported by all Linux kernels. An alternative Wi-Fi adapter (e.g., Intel AX210NGW) might be required for Wi-Fi functionality on certain Linux distributions.

- **Slow Performance:**

- Close unnecessary applications running in the background.
- Check for sufficient free storage space on the SSD.
- Ensure the Mini PC's vents are not obstructed to prevent overheating.
- Run a system scan for malware or viruses.

7. SPECIFICATIONS

Feature	Detail
Brand	NiPoGi
Model Name	E3B
Operating System	Windows 11 Pro
CPU Model	AMD Ryzen 7 7730U
CPU Speed	2 GHz (Base), up to 4.5 GHz (Turbo)
CPU Cores/Threads	8 Cores / 16 Threads
L3 Cache	16 MB
Graphics Card Description	Integrated AMD Radeon Graphics
Graphics Core Count	8 Cores
Graphics Frequency	2000 MHz
RAM Size	16 GB DDR4 (3200 MHz)
Max RAM Capacity	64 GB
Storage Capacity	512 GB M.2 NVMe PCIe SSD
Max Storage Capacity	4 TB (via 2 M.2 slots)
Video Output	HDMI 2.0, DisplayPort 1.4, USB-C (Triple Display 4K@60Hz)
Wireless Connectivity	Wi-Fi 6 (802.11ax), Bluetooth 5.2

Feature	Detail
Wired Connectivity	1x RJ45 Gigabit Ethernet
USB Ports	6x USB 3.2 Gen2, 1x USB 3.2 Type-C (DP 1.4, 10Gbps, PD output)
Audio Port	1x 3.5mm Audio Jack
Cooling Method	Air Cooling (Silent Axial Fan, Dual Exhaust Vents)
Dimensions	Approx. 5.04 x 5.04 x 1.63 inches
Power Plug Type	Type E/F – 2 pins (hybrid EU)

8. WARRANTY AND SUPPORT

NiPoGi provides reliable after-sales service and lifetime technical support for the E3B Mini PC.

- For any questions or technical assistance, please contact NiPoGi customer support.
- Refer to your purchase documentation for specific warranty period details.

Contact information can typically be found on the manufacturer's official website or through your retailer.

