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> NiPoGi Pinova P2 Mini PC AMD Ryzen R2544 User Manual

## NiPoGi P2

# NiPoGi Pinova P2 Mini PC AMD Ryzen R2544 User Manual

Model: P2

## 1. INTRODUCTION

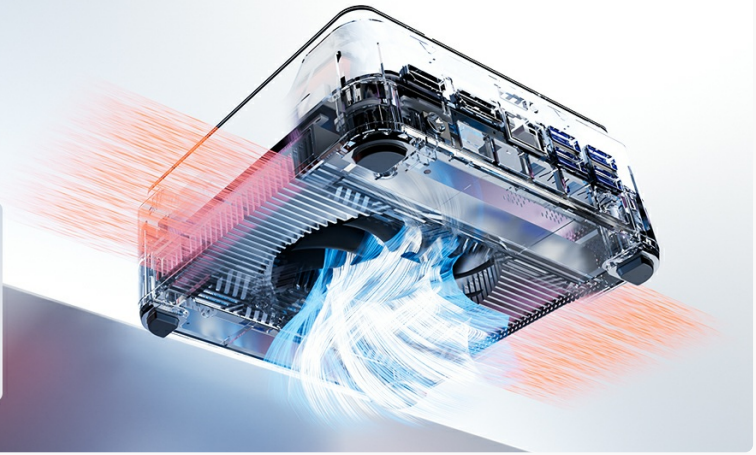
The NiPoGi Pinova P2 Mini PC is a compact and powerful computing solution designed for various applications, including office work, home entertainment, and business use. Featuring an AMD Ryzen R2544 processor, 16GB DDR4 RAM, and a 512GB SSD, it offers efficient performance in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Mini PC.



Overview of the NiPoGi Pinova P2 Mini PC's features and specifications.

## More Efficient Heat Dissipation

A cool Fan design for low noise and better heat dissipation



The compact and portable design of the Mini PC, including VESA mount option.

## 2. IMPORTANT SAFETY INFORMATION

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To prevent initial configuration issues when using this Mini PC for the first time, please follow these guidelines:

1. Do not connect to the network or Wi-Fi until the operating system of your Mini PC is fully operational. You do not need to fill in mailbox details; skip this step to use the device normally.
2. If you are using only a wired network connection, disconnect the wired network cable directly, restart the device, and ensure it remains disconnected from the network during initial setup.
3. If you have established a Wi-Fi connection and the operating system fails to load, turn off the router you are using.

## 3. WHAT'S IN THE BOX

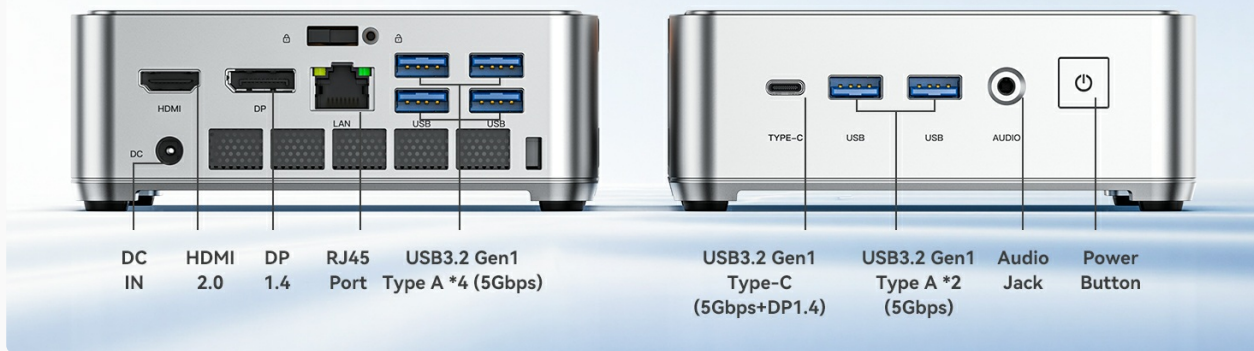
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Please check the contents of your package. If any items are missing or damaged, contact customer support.

- 1 x NiPoGi Mini PC
- 1 x EU Power Adapter
- 1 x HDMI Cable
- 1 x VESA Mount
- 1 x User Manual

## Rich Interfaces Design

Meet your various needs

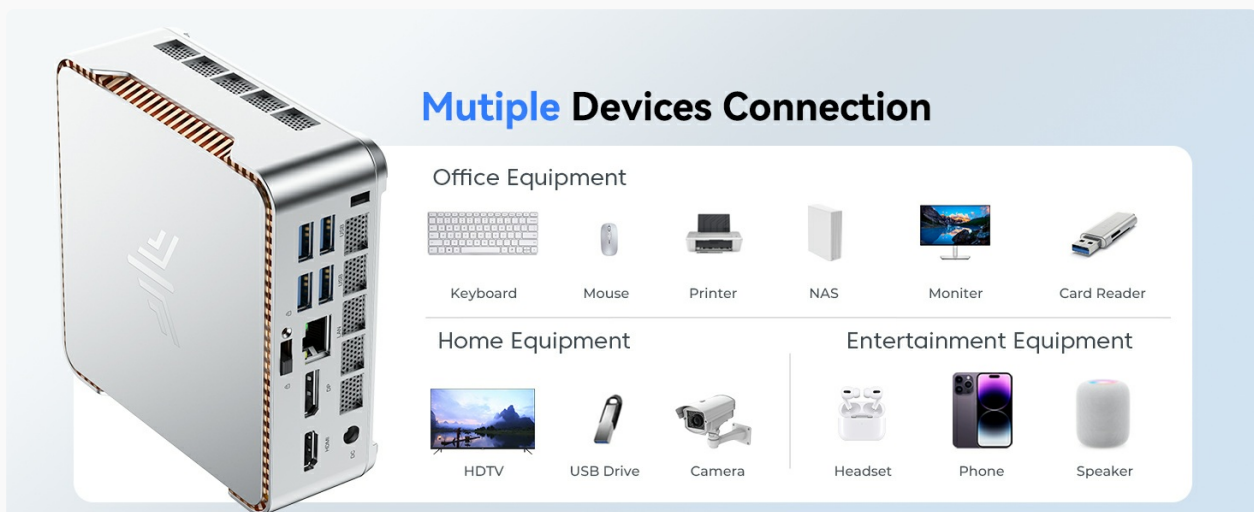


Contents included in the NiPoGi Pinova P2 Mini PC package.

## 4. SETUP INSTRUCTIONS

Follow these steps to set up your NiPoGi Pinova P2 Mini PC:

- 1. Connect Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB ports on the Mini PC.
- 2. Connect Display:** Connect your monitor(s) to the Mini PC using an HDMI, DisplayPort (DP1.4), or USB3.2 Gen1 Type-C cable. The Mini PC supports triple 4K@60Hz display output.
- 3. Connect Power:** Plug the EU power adapter into the DC IN port on the Mini PC, then connect the adapter to a power outlet.
- 4. Power On:** Press the power button located on the front or top of the Mini PC. The system will begin to boot.
- 5. Initial Operating System Setup:** Follow the on-screen instructions to complete the Windows 11 IoT Enterprise setup. Refer to the [Important Safety Information](#) regarding network connection during initial setup.



Detailed view of the Mini PC's rich interface design.

## Easily Expand Storage

Say Goodbye to Storage Anxiety



**16GB** DDR4

(SO-DIMM Slots\*2, MAX 32GB)



**512GB** SSD

(M.2 2280 SATA&NVMe Slot \*1  
M.2 2280 NVMe Slot \*1, MAX 4TB)



Triple 4K display setup using the available video output ports.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Basic Operation

- **Power On/Off:** Press the power button to turn the device on. To turn off, use the operating system's shutdown option or press and hold the power button for a few seconds.
- **Restart:** Use the operating system's restart option.
- **Operating System:** The Mini PC comes with Windows 11 IoT Enterprise pre-installed and supports Linux and Ubuntu.
- **Advanced Features:** Supports automatic power-on, Wake on LAN, and RTC Wake for scheduled power-on.

### 5.2 Storage Expansion

The NiPoGi Pinova P2 Mini PC allows for easy storage expansion to meet your needs.

- **M.2 SSD:** The device includes an M.2 2280 SATA&NVMe slot and an M.2 2280 NVMe slot, supporting up to 4TB.
- **DDR4 RAM:** Features two SO-DIMM slots, supporting up to 32GB DDR4 RAM.

## Higher Performance

**Compact size**  
5.05\*5.05\*1.73inch



**Radeon Graphics**



**1300 MHz**  
Graphics card frequency

**Ryzen Embedded R2544**

4 Cores 8 Threads    TSMC 12nm Lithographie    3.7GHz Turbo Boost



**16GB**  
DDR4 RAM

**Operating System**



**512GB**  
M.2 SSD, Up to 4TB

**WIFI**  
2.4+5G Dual-band WiFi



**Bluetooth 4.2**



**Three Screen Display**  
1\*HDMI2.0 + 1\*DP1.4 Port 1\*USB3.2 Gen1 Type-C



Performance overview of the AMD Ryzen Embedded R2544 processor.

## AMD Ryzen Embedded R2544


Performance + 30% Run Smoother

**4C / 8T**    **1300MHz**    **3.7GHz**  
4MB L3 Cache    Radeon Graphics    Max Turbo Frequency

CPU Mark Rating

<b>Ryzen Embedded R2544</b>	<b>8486</b>
Ryzen 5 3500U	6831
Intel N150	51221
Intel N95	5004
AMD Ryzen 3 3200U	3730

+60% ↑



Connectivity options for various devices with the Mini PC.

256GB

Potenza compatta per anziani famiglie e uso quotidiano di base



512GB

Archiviazione equilibrata per lavoro, studio e intrattenimento



1TB

Spazio abbondante per creatività, gaming e multitasking



2TB

Archiviazione massiccia per video 4K, foto raw e progetti di grandi dimensioni



Storage capacity options and their applications.

## 5.3 Applications

The NiPoGi Pinova P2 Mini PC is suitable for a wide range of applications:

- **Commercial:** Office work, digital signage, POS systems, real estate visualization.
- **Education:** Online courses, classroom use, learning terminals.
- **Public Sector:** Public information displays, intelligent bus stop signs, code visualization screens.
- **Information Technology:** Code editing, informational displays, surveillance, security.

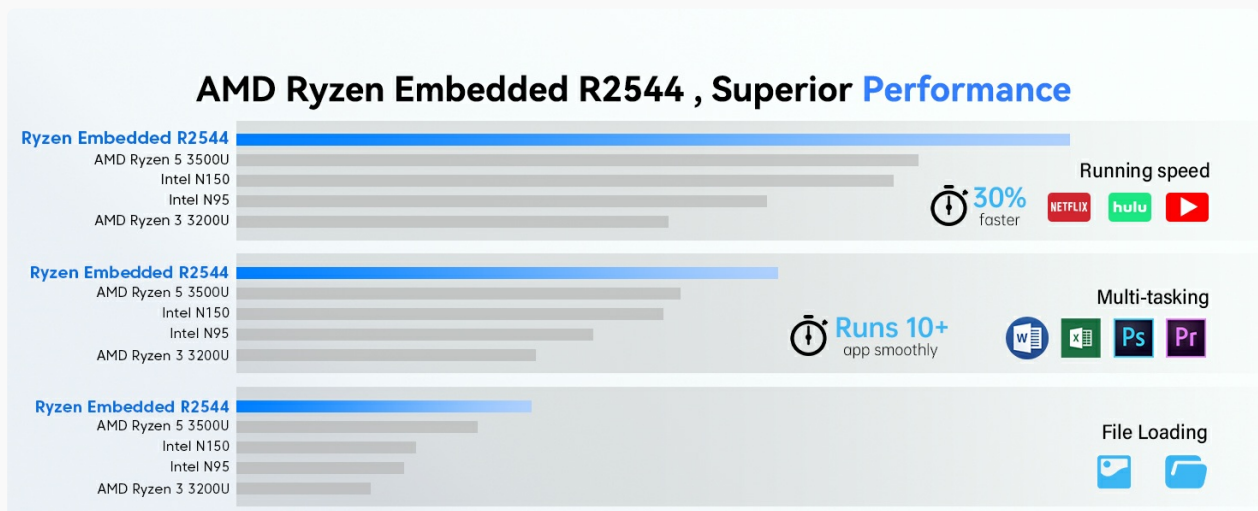


Various use cases for the Pinova P2 Mini PC.

## 6. MAINTENANCE

### 6.1 Heat Dissipation

The Mini PC features an efficient cooling fan design to ensure low noise operation and effective heat dissipation, maintaining stable performance.



Efficient heat dissipation system for stable and quiet operation.

### 6.2 Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation openings are free from dust to maintain optimal airflow.

### 6.3 Software Updates

Keep your operating system and drivers updated to ensure optimal performance and security. Check for updates regularly through your operating system settings.

## 7. TROUBLESHOOTING

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- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet if necessary.
- **No Display:** Verify that the HDMI, DisplayPort, or Type-C cable is securely connected to both the Mini PC and the monitor. Ensure the monitor is powered on and set to the correct input source.
- **Operating System Fails to Load (Initial Setup):** Refer to the [Important Safety Information](#) regarding network connections during initial OS setup. Disconnect all network cables and Wi-Fi before attempting to complete the setup.
- **Slow Performance:** Check for background applications consuming resources. Ensure sufficient free storage space. Consider upgrading RAM or SSD if performance issues persist.
- **Peripheral Not Detected:** Ensure USB devices are properly connected. Try a different USB port. Update USB drivers if needed.

## 8. SPECIFICATIONS

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Feature	Specification
Brand	NiPoGi
Model Name	P2
CPU Model	AMD Ryzen R2544 (Ryzen 3)
CPU Speed	Up to 3.7 GHz
Processor Cores	4
Installed RAM	16 GB DDR4
Max RAM Capacity	32 GB
Storage Capacity	512 GB SSD
Storage Technology	Solid State (M.2 2280 SATA&NVMe, M.2 2280 NVMe)
Graphics Coprocessor	Radeon Vega 8 Grafik

Video Output	HDMI, Type-C, DisplayPort (Triple 4K@60Hz)
Operating System	Windows 11 IoT Enterprise (pre-installed), supports Linux, Ubuntu
Connectivity	Ethernet, 2.4+5G Dual-band Wi-Fi (802.11ac), Bluetooth 4.2
Dimensions	12.8 x 12.8 x 4.4 cm
Power Consumption	28 Watt



AMD Ryzen processor details.

## 9. WARRANTY AND SUPPORT

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The NiPoGi Pinova P2 Mini PC comes with a **2-year warranty**. For technical assistance, troubleshooting, or warranty claims, please contact NiPoGi customer support.



Warranty information and customer support contact methods.

You can find more information and support resources on the official NiPoGi store page [NiPoGi Store](#).

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