NiPoGi P1

NiPoGi P1 Mini PC User Manual

Model: P1 - AMD Ryzen 4300U, 16GB DDR4, 512GB SSD, Windows 11 Pro

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your NiPoGi P1 Mini PC. The NiPoGi P1 is a compact and efficient desktop computer designed for various professional and personal uses, including home, school, and office environments.

It features an AMD Ryzen 4300U processor, 16GB DDR4 RAM, and a 512GB M.2 2280 SSD, pre-installed with Windows 11 Pro. The device supports triple 4K@60Hz display output and offers robust connectivity options including Wi-Fi 5 and Bluetooth 4.2.

Figure 1: NiPoGi P1 Mini PC, showcasing its compact design and front ports.

Figure 2: Overview of NiPoGi P1 Mini PC's core features including AMD Ryzen 4300U, 16GB DDR4, 512GB SSD, Wi-Fi 5, Bluetooth 4.2, and triple 4K display support.

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Video 1: NiPoGi P1 Mini PC Product Overview. This preview video provides a brief visual introduction to the Mini PC's design and main functionalities.

2. SETUP

2.1 Initial Boot and System Configuration

Upon the first startup, you will be prompted to select your preferred language and country. Following this, you will need to create a user account to complete the initial Windows 11 Pro setup.

2.2 BIOS Settings for Automatic Power On

To configure the Mini PC to automatically power on after a power outage:

1. Power on the Mini PC.

2. Immediately press the **Delete** key on your keyboard to enter the BIOS setup utility.

3. Navigate to the **Boot** option using the arrow keys.

4. Locate the "Restore AC Power Loss" setting.

5. Change its value from "Power Off" to '**Power On**".

6. Go to the "Save & Exit" tab.

7. Select "Save Changes and Exit" and confirm by selecting "Yes".

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Video 2: BIOS Setting for Auto Power On. This preview video demonstrates the steps to enable automatic power-on after a power loss.

2.3 Operating System Reinstallation (Advanced)

If you need to reinstall the operating system, follow these steps:

1. Prepare a USB flash drive (16GB or larger).

2. Download the necessary OS files from the provided link (if applicable) or official sources.

3. Format the USB drive to **NTFS** file system and rename it to '**WINPE**".

4. Copy the unzipped OS system files to the formatted USB drive.

5. Insert the prepared USB drive into the Mini PC.

6. Power on the Mini PC and repeatedly press **F7** to enter the boot device selection menu.

7. Select the USB drive (e.g., "UEFI: WINPE") to boot from it and initiate the OS installation process.

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Video 3: How to Install the System with U Disk. This preview video guides you through the process of preparing a USB drive and reinstalling the operating system.

2.4 Triple Display Setup

The NiPoGi P1 supports connecting up to three displays simultaneously via HDMI 2.0, DisplayPort 1.4, and USB 3.2 Type-C. This allows for enhanced multitasking and visual experiences.
To configure dual or triple displays:

1. Connect your monitors to the available HDMI, DisplayPort, and/or Type-C ports.

2. Once connected, press **WIN + P** on your keyboard to quickly open the projection settings.

3. Choose your desired display mode:

   - **Duplicate**: Shows the same content on all connected displays.
   - **Extend**: Extends your desktop across multiple displays, allowing for different content on each screen.
   - **Second screen only**: Displays content only on the secondary monitor.

Triple 4K Display

See Everything in Stunning 4K

Type-C — 4K Output
DP1.4 — 4K Output
HDMI2.0 — 4K Output

Figure 3: Illustration of the NiPoGi P1 Mini PC connected to three 4K displays, demonstrating its multi-monitor capability.

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Video 4: How to Set Up Different or Same Views on Dual Screen Display. This preview video demonstrates how to configure your dual monitor setup for extended or duplicated views.

3. OPERATING INSTRUCTIONS

3.1 Connectivity

The NiPoGi P1 Mini PC offers a comprehensive set of interfaces for various peripherals and network connections:

- **USB Ports**: 2x USB 3.2 Gen 2 (10 Gbps) and 4x USB 3.2 Gen 1 for high-speed data transfer and peripheral connections.
- **Video Outputs**: 1x HDMI 2.0, 1x DisplayPort 1.4, and 1x USB 3.2 Gen 2 Type-C (with DP1.4 video output) for triple 4K@60Hz display support.
- **Network**: RJ45 1000M Ethernet port for stable wired network connection.
- **Wireless**: Dual-band Wi-Fi 5 (802.11a/b/g/n/ac) for fast and stable wireless internet, and Bluetooth 4.2 for connecting wireless devices like keyboards, mice, and headphones.
- **Audio**: 3.5mm audio jack.

Connect More, Wait Less

USB3.2 Gen1 Type-C
USB3.2 Gen1 Type-A x2
3.5mm Audio Jack
Power Button

HDMI 2.0
DC IN
DP1.4
RJ45 LAN
USB3.2 Gen1 Type-A x4

Figure 4: Detailed view of the NiPoGi P1 Mini PC's various input/output ports, including USB, HDMI, DisplayPort, Type-C, LAN, and audio jack.

3.2 Advanced Features

The Mini PC supports several advanced features for convenience and flexibility:

- **Wake on LAN (WoL)**: Allows you to wake up the computer remotely over a network connection.
- **PXE Boot**: Enables booting the computer from a network server.
- **RTC Wake**: Allows scheduling the computer to wake up at a specific time.
- **Auto Power On**: Configures the computer to automatically power on when AC power is restored (refer to Section 2.2 for setup).

4. MAINTENANCE

4.1 Cooling System

The NiPoGi P1 Mini PC is equipped with an efficient dual-fan cooling system designed for optimal heat dissipation while maintaining quiet operation (below 38 dB). This ensures stable performance even under load.

Figure 5: Diagram illustrating the internal dual-fan cooling system of the NiPoGi P1 Mini PC, highlighting efficient heat dissipation.

4.2 Storage Expansion

The Mini PC features two M.2 2280 SSD slots (one for SATA/NVMe PCIe 3.0 and one for SATA), allowing flexible storage expansion up to 4TB. You can also add a 2.5-inch SSD or HDD in the empty base for additional storage.

Boost Performance Instantly

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)

Figure 6: Visual representation of the NiPoGi P1 Mini PC's storage expansion capability, showing the addition of an SSD.

5. TROUBLESHOOTING

5.1 Blue Screen Error (CRITICAL_PROCESS_DIED)

If you encounter a "CRITICAL_PROCESS_DIED" blue screen error, it may indicate a system file corruption. In such cases, a clean reinstallation of Windows is recommended. Please refer to Section 2.3 for detailed instructions on how to reinstall the operating system using a USB drive.

5.2 Power Interruption

If the Mini PC does not power on automatically after a power interruption, ensure that the "Restore AC Power Loss" setting in the BIOS is set to "Power On". Refer to Section 2.2 for instructions on configuring this setting.

6. SPECIFICATIONS

Feature	Detail
Brand	NiPoGi
Model Number	P1
Processor Manufacturer	AMD
Processor Type	Ryzen 3 (AMD Ryzen 4300U)
Processor Speed	3.7 GHz (Max Turbo Frequency)
RAM Capacity	16 GB DDR4 (Expandable up to 64 GB)
Hard Drive Capacity	512 GB SSD (Expandable up to 4 TB)
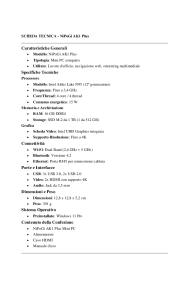
Feature	Detail
Graphics Coprocessor	AMD Radeon Graphics 1400MHz (Integrated)
Max Resolution	3840 x 2160 (4K@60Hz)
Connectivity	Wi-Fi 5 (802.11a/b/g/n/ac), Bluetooth 4.2, Gigabit Ethernet (RJ45)
Ports	2x USB 3.2 Gen 2, 4x USB 3.2 Gen 1, 1x HDMI 2.0, 1x DisplayPort 1.4, 1x USB 3.2 Type-C (DP1.4), 1x 3.5mm Audio Jack, 1x DC IN
Operating System	Windows 11 Pro
Dimensions	12.8 x 12.8 x 5.1 cm
Weight	500 g
Power Consumption	15 Watts (TDP 28W)

7. WARRANTY AND SUPPORT

NiPoGi offers lifetime technical support for your P1 Mini PC. Additionally, the product comes with a 12-month satisfaction guarantee. For any inquiries or assistance, please contact NiPoGi customer support.

Related Documents - P1

[NiPoGi AK1 Plus Mini PC Technical Specifications](#)
Detailed technical specifications for the NiPoGi AK1 Plus Mini PC, including processor, memory, storage, graphics, connectivity, ports, dimensions, weight, operating system, and package contents.

[Troubleshooting Guide: NIPOGI E3B MINI PC Not Turning On or Unresponsive Screen](#)
A comprehensive guide to troubleshooting common power and screen issues with the NIPOGI E3B MINI PC featuring AMD Ryzen 7 5700U. Learn steps to resolve no-power situations, blank screens, and unresponsive displays.

	[NiPoGi Mini PC User Manual - AK1, AK2, AK3, GK3 Series](#) Comprehensive user guide for NiPoGi Mini PCs (AK1, AK2, AK3, GK3). Features interface explanations, 2.5-inch disk installation, usage instructions, troubleshooting Q&A, and safety precautions.
	[NiPoGi Mini PC User Manual for AK1, AK2, AK3, GK3 Series](#) Comprehensive user manual for NiPoGi Mini PCs, covering interface introductions, installation of 2.5" disks, usage instructions, troubleshooting, and precautions for AK1, AK2, AK3, and GK3 models.
	[ASRock X600D5-P1/DASH Motherboard Technical Specifications](#) Detailed technical specifications for the ASRock X600D5-P1/DASH motherboard, covering CPU support, memory, storage, I/O ports, BIOS features, and environmental compliance.
	[Troubleshooting Guide: NIPOGI E3B MINI PC Not Turning On or Unresponsive Screen](#) A comprehensive guide to troubleshooting common power and screen issues with the NIPOGI E3B MINI PC featuring AMD Ryzen 7 5700U. Learn steps to resolve no-power situations, blank screens, and unresponsive displays.