

NiPoGi CK10

NiPoGi CK10 Mini PC User Manual

Model: CK10

INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your NiPoGi CK10 Mini PC. Please read this guide thoroughly to ensure optimal performance and longevity of your device.

The NiPoGi CK10 Mini PC features an Intel Core i5-12450H CPU, 32GB DDR4 3200MHz dual-channel memory, and a 512GB M.2 2280 NVMe PCIe3.0 SSD, suitable for various applications including business office tasks, entertainment, and home theater use.

WHAT'S IN THE BOX

Upon unboxing your NiPoGi CK10 Mini PC, verify that all the following items are included:

- 1 x NiPoGi CK10 Mini PC (Intel i5 12450H, 32GB DDR4)
- 1 x Power Adapter (Type G 3-pin UK plug)
- 1 x HDMI Cable
- 1 x User Manual (this document)

SETUP GUIDE

1. Connecting Peripherals

The CK10 Mini PC offers a variety of ports for connecting external devices:

- **USB Ports:** 4 x USB 3.0, 1 x USB-C (for data transfer only). Connect your keyboard, mouse, and other USB devices.
- **Video Outputs:** 2 x HDMI, 1 x VGA. Connect to your monitor(s) or television.
- **Network:** 1 x Gigabit LAN port for wired internet connection.
- **Audio:** 1 x Audio input/microphone jack.
- **Power:** 1 x DC socket for the power adapter.

Ensure all necessary peripherals (monitor, keyboard, mouse) are connected before powering on the device.



Figure 1: Front and rear view of the NiPoGi CK10 Mini PC, highlighting available ports including USB, HDMI, LAN, and DC power.

2. Initial Startup

When you first boot the Mini PC, you will be guided through the initial operating system setup. This typically involves selecting your language, country, and creating a user account.

3. System Reinstallation (Optional)

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

1. Prepare a USB flash drive (16GB or larger).
2. Format the USB drive to NTFS and rename it to "WINPE".
3. Copy the system files (OS folder) to the formatted USB drive.
4. Insert the USB drive into the Mini PC.
5. Power on the Mini PC and repeatedly press the **F7** key to enter the boot device selection menu.
6. Select the USB drive to boot from.
7. Follow the on-screen prompts to complete the system installation.

Your browser does not support the video tag.

Video 1: Demonstration of Windows 10 system reinstallation using a USB drive. This video illustrates the process of preparing the USB

drive, accessing the boot menu, and initiating the installation.

OPERATING INSTRUCTIONS

1. Triple Display Setup

The NiPoGi CK10 Mini PC supports triple display output via its 2 HDMI ports and 1 VGA port, allowing for 4K@60Hz resolution across multiple screens. This feature enhances multitasking capabilities.

To configure multiple displays:

- Connect your monitors to the available HDMI and VGA ports.
- Press **Win + P** on your keyboard to quickly open the projection settings.
- Select "Extend" to display different content across each screen, or "Duplicate" to mirror the display.



Figure 2: The Mini PC connected to two HDMI monitors and one VGA monitor, demonstrating a triple display setup for enhanced productivity.

Video 2: A demonstration of setting up and utilizing the triple display functionality of the NiPoGi CK10 Mini PC, showing extended and duplicated screen modes.

2. Wireless Connectivity

The Mini PC is equipped with WiFi 6 and Bluetooth 5.2 technology for stable and fast wireless connections. To connect to a wireless network or Bluetooth device, access the network and Bluetooth settings in your operating system.



Figure 3: Visual representation of the Mini PC's WiFi 6 and Bluetooth 5.2 capabilities, indicating advanced wireless connectivity.

MAINTENANCE AND UPGRADES

1. Storage Expansion

The NiPoGi CK10 Mini PC comes with a 512GB M.2 2280 NVMe PCIe3.0 SSD. For additional storage, it features 2 M.2 SSD slots, expandable up to 2TB. It also supports the expansion of a 2.5" SATA SSD/HDD hard drive.

When upgrading or adding storage, ensure the device is powered off and disconnected from the power source. Refer to the internal layout for drive bay locations.



Figure 4: An internal view of the Mini PC, illustrating the location of the M.2 SSD slot for storage expansion.

2. Memory Upgrade

The Mini PC is equipped with 32GB DDR4 3200MHz high-speed dual-channel memory, which can be expanded up to 64GB. When upgrading RAM, ensure compatibility with DDR4 3200MHz modules and install them in dual-channel configuration for optimal performance.



Figure 5: A graphic illustrating the performance benefits of dual-channel DDR4 RAM compared to single-channel, relevant for memory upgrades.

3. Cooling System

The CK10 Mini PC incorporates an active fan cooling solution and top vents to manage internal temperatures. Ensure proper airflow around the device to maintain efficient cooling.

Regularly clean dust from the vents using compressed air to maintain efficient cooling.

TROUBLESHOOTING

1. Automatic Power On After Power Outage

To enable automatic power-on after a power outage:

- When booting the Mini PC, repeatedly press the **ESC** button to enter the BIOS interface.
- Navigate to the "Boot" section.
- Locate and enable the "Automatic Power On" option.

- Save changes and exit BIOS.

2. SSD Temperature Management

Under heavy load or continuous operation, some users have reported higher NVMe M.2 SSD temperatures. If you experience performance issues or receive temperature warnings, consider the following:

- Ensure the Mini PC is in a well-ventilated area.
- Verify that the internal cooling fan is operating correctly.
- For advanced users, replacing the stock SSD heatsink with a larger, more efficient aftermarket heatsink may help reduce temperatures. This typically involves opening the case and carefully replacing the component.







TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	NiPoGi
Model Number	CK10-i512450H-32+512
Processor	Intel Core i5-12450H (8C/12T, up to 4.4 GHz, 12 MB cache)
RAM	32GB DDR4 3200MHz (Dual Channel, expandable to 64GB)
Storage	512GB M.2 2280 NVMe PCIe3.0 SSD (2 M.2 slots, expandable up to 2TB, supports 2.5" SATA SSD/HDD)
Graphics	Intel UHD Graphics for 12th Gen Intel Processors (1.2 GHz)
Video Output	2 x HDMI, 1 x VGA (Triple Display 4K@60Hz)
Connectivity	WiFi 6 (802.11a/b/g/n/ac), Bluetooth 5.2, Gigabit Ethernet
USB Ports	4 x USB 3.0, 1 x USB-C (data transfer only)
Audio	1 x Audio input/microphone
Operating System	Pre-installed OS (specific version may vary)
Dimensions	13.7cm x 12.6cm x 5cm
Weight	390 g

WARRANTY AND SUPPORT

NiPoGi provides 1 year of customer service quality and professional customer support available 24/7. For any inquiries or assistance, please refer to your purchase documentation for contact details or visit the official NiPoGi support channels. Additionally, NiPoGi offers a 30-day price protection policy. If the price of the product changes within 30 days of your purchase, you may be eligible for a refund of the difference.



	<p>NiPoGi AK1 Plus Mini PC Technical Specifications</p> <p>Detailed technical specifications for the NiPoGi AK1 Plus Mini PC, including processor, memory, storage, graphics, connectivity, ports, dimensions, weight, operating system, and package contents.</p>
	<p>NiPoGi Mini PC User Manual - AK1, AK2, AK3, GK3 Series</p> <p>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.</p>
	<p>NiPoGi Mini PC User Manual for AK1, AK2, AK3, GK3 Series</p> <p>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.</p>
	<p>Troubleshooting Guide: NIPOGI E3B MINI PC Not Turning On or Unresponsive Screen</p> <p>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.</p>
	<p>Mindman CK10 Series User Manual - Stepping Driving Unit</p> <p>Comprehensive user manual for the Mindman CK10 series stepping driving unit, covering specifications, configuration, operation, safety precautions, and troubleshooting.</p>
	<p>Schrack Technik MC4 Circuit Breaker and Auxiliary Switch Installation Guide</p> <p>Detailed installation and operation manual for Schrack Technik MC4 series circuit breakers and M22 auxiliary switches. Covers safety, mounting, wiring, settings, and testing.</p>