

NiPoGi AM21

NiPoGi AM21 Mini PC Instruction Manual

Model: AM21 | Brand: NiPoGi

INTRODUCTION

The NiPoGi AM21 Mini PC is a compact and powerful desktop computer designed for a wide range of applications, from office tasks and creative design to light gaming and multimedia entertainment. Featuring an AMD Ryzen 7 8745HS processor, 16GB of high-speed DDR5 RAM, and a 512GB PCIe 4.0 NVMe SSD, this mini PC delivers exceptional performance in a small form factor. It supports up to four 4K displays simultaneously and offers robust connectivity options including WiFi 6, Bluetooth 5.2, and dual LAN ports.

1. SETUP GUIDE

1.1 What's in the Box

- 1 x NiPoGi AM21 Mini PC
- 1 x Power Adapter
- 1 x HDMI Cable
- 1 x VESA Mount
- 1 x User Manual

1.2 Initial Connection

1. **Connect to Power:** Plug the power adapter into the DC port on the rear of the Mini PC, then connect it to a power outlet.
2. **Connect Display:** Use the provided HDMI cable to connect your monitor or TV to one of the HDMI 2.1 ports on the rear of the Mini PC. For multi-display setups, use additional HDMI, USB4 Type-C, or USB 3.2 Type-C ports.
3. **Connect Peripherals:** Connect your keyboard and mouse to the available USB ports.

4. **Network Connection:** For a wired connection, plug an Ethernet cable into one of the LAN ports. For wireless, ensure your WiFi network is available during the operating system setup.
5. **Power On:** Press the power button located on the front of the Mini PC. The system will boot up.

USB4 Does It All

One Cable, Unlimited Expansion

USB4 (Up to 40Gbps/PD/DP1.4)

Speed Comparison

USB4	40Gbps
USB3.2	10Gbps

Figure 1: NiPoGi AM21 Mini PC with VESA mount for space-saving installation.

2. OPERATING INSTRUCTIONS

2.1 Multi-Display Setup

The AM21 Mini PC supports up to four 4K displays simultaneously, offering enhanced productivity and immersive entertainment. Connect your monitors using the following ports:

- 2 x HDMI 2.1 ports (4K@60Hz support)
- 1 x USB4 Type-C port (40Gbps bandwidth with DisplayPort 1.4 support)
- 1 x USB 3.2 Type-C port (10Gbps with DisplayPort 1.4 alternate mode)

After connecting, configure your display settings within your operating system to extend or duplicate your desktop across multiple screens.

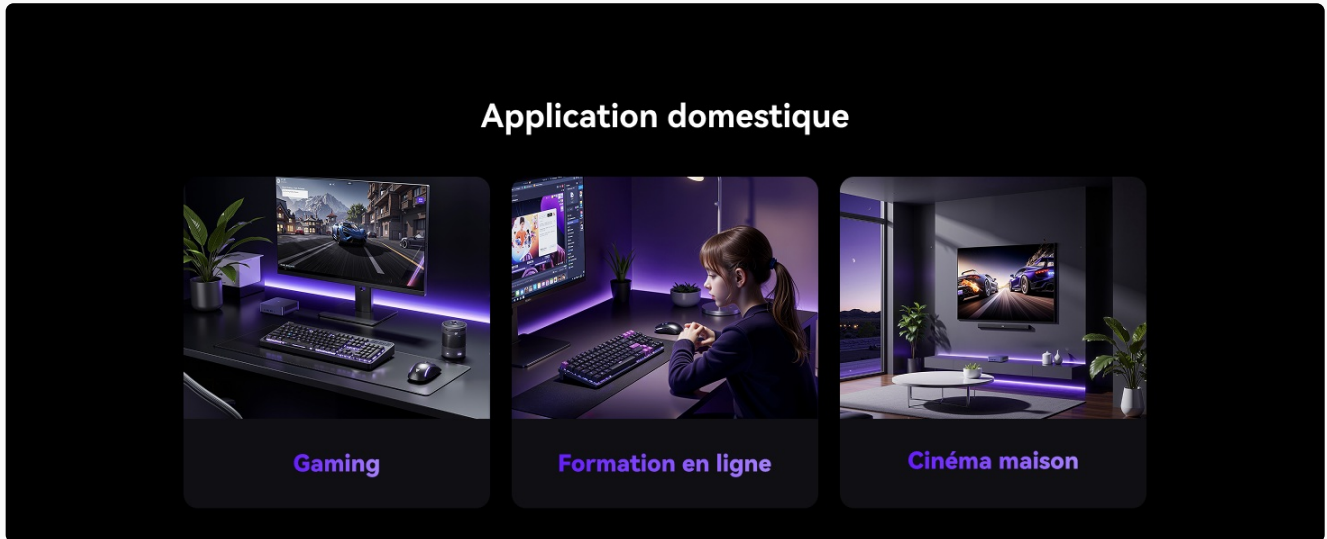


Figure 2: Quad-screen 4K UHD display support for enhanced productivity.

2.2 Connectivity

The Mini PC offers versatile connectivity options:

- **Wireless:** Integrated WiFi 6 (802.11ax) for faster wireless speeds and Bluetooth 5.2 for connecting wireless peripherals.
- **Wired:** Two Ethernet ports (1.0Gbps RJ45) for high-speed wired network connections.
- **USB Ports:** Multiple USB ports including USB 3.2 Gen2 Type-A (10Gbps), USB 3.2 Gen2 Type-C (10Gbps/PD/DP1.4), USB4 Type-C (40Gbps/PD/DP1.4), and USB 2.0 Type-A.



Figure 3: Front and rear port layout of the NiPoGi AM21 Mini PC.

3. STORAGE EXPANSION

The NiPoGi AM21 Mini PC comes with a 512GB PCIe 4.0 NVMe SSD. For additional storage, the device supports:

- **M.2 NVMe SSD:** Expansion up to 4TB via an additional M.2 slot.
- **2.5-inch SATA Drive:** An easily accessible compartment allows for the addition of a 2.5-inch SATA SSD or HDD. This can be connected via an internal USB Type-C to SATA converter.

To install an additional drive, carefully open the bottom panel of the Mini PC. Ensure the device is powered off and disconnected from the power source before performing any hardware modifications.



Figure 4: Internal view showing DDR5 RAM and M.2 NVMe SSD slots for storage expansion.

4. MAINTENANCE

To ensure optimal performance and longevity of your NiPoGi AM21 Mini PC, follow these maintenance guidelines:

- **Keep Vents Clear:** Ensure that the ventilation openings on the Mini PC are not obstructed. Proper airflow is crucial for effective heat dissipation.
- **Regular Cleaning:** Use a soft, dry cloth to clean the exterior of the device. For dust accumulation in vents, use compressed air sparingly.
- **Operating Environment:** Place the Mini PC in a well-ventilated area, away from direct sunlight, heat sources, and excessive dust or humidity.
- **Software Updates:** Regularly update your operating system and drivers to maintain system stability and security.

The optimized cooling system, featuring copper tubes and a silent fan, is designed to keep the device cool and quiet (below 38 dB) even under prolonged high load.



Figure 5: Illustration of the efficient thermal dissipation system within the Mini PC.

5. TROUBLESHOOTING

If you encounter issues with your NiPoGi AM21 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 HDMI or display cables are firmly connected to both the Mini PC and the monitor.
 - Ensure the monitor is powered on and set to the correct input source.
 - Try a different display cable or monitor if available.
- **Slow Performance:**
 - Close unnecessary applications running in the background.
 - Check for available operating system updates and install them.
 - Ensure there is sufficient free space on your primary drive.
 - Monitor CPU and RAM usage through Task Manager (Windows) to identify resource-intensive processes.
- **Network Connectivity Issues:**
 - For wired connections, check the Ethernet cable and router status.
 - For wireless connections, ensure WiFi is enabled and you are connected to the correct network with the correct password.
 - Restart your router and the Mini PC.

6. SPECIFICATIONS

Feature	Detail
Brand	NiPoGi

Feature	Detail
Model Name	AM21
CPU Model	AMD Ryzen 7 8745HS (8C/16T, Max 4.9 GHz)
CPU Speed	3.8 GHz (Base), 4.9 GHz (Max Turbo)
Graphics Coprocessor	Integrated RDNA 3 Graphics Processor
RAM Memory Installed	16 GB DDR5
RAM Memory Technology	DDR5
Max RAM Memory Size	96 GB
Memory Speed	5600 MHz
Storage Capacity	512 GB SSD (PCIe 4.0 NVMe)
Hard Drive Interface	SSD
Operating System	OS (Pre-installed Windows 11 Home mentioned in reviews)
Video Output Interface	HDMI 2.1, DisplayPort 1.4
Max Display Resolution	3840x2160 (4K)
Connectivity Technology	Wi-Fi 6 (802.11ax), Bluetooth 5.2, Ethernet (Dual LAN), HDMI 2.1, DP 1.4, USB4.0, USB 3.2
Total USB Ports	6
Total HDMI Ports	2
Power Consumption	45 Watt
Item Dimensions (L x W x H)	13.9 x 3.7 x 13.9 cm
Item Weight	465 Grams
Cooling Method	Air
Special Features	Auto Power On, Wake On LAN

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The NiPoGi AM21 Mini PC comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures repair or replacement services for eligible issues.

7.2 Customer Support

For technical assistance, warranty claims, or any product-related inquiries, please contact NiPoGi customer support through the following channels:

- **Amazon Support:** Log in to your Amazon account, navigate to 'Your Orders', and select 'Ask a question about this product'.
- **Email Support:** support@inipogi.com
- **Phone Support:** +49 800 182 1386 (Monday-Friday, 9 AM - 5 PM EST)

During the warranty period, NiPoGi provides service points for replacing or repairing the Mini PC.



Figure 6: NiPoGi customer support and warranty details.