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> MeLE PCG02 Mini PC Stick Fanless N4000 4GB Ram 128GB Mini Computer Stick Windows 11 Home HDMI 4K 2.4G/5GHz Wi-Fi 5 BT4.2 Gigabit Ethernet Micro PC User Manual

MeLE PCG02

MeLE PCG02 Mini PC Stick User Manual

Model: PCG02

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your MeLE PCG02 Mini PC Stick. Please read this manual thoroughly before using the device to ensure optimal performance and safety.

The MeLE PCG02 is a fanless mini PC stick designed for various applications including industrial IoT, NAS servers, WMS, MES, and digital signage. Its compact size and robust features make it suitable for both personal and professional use.

2. PRODUCT OVERVIEW

The MeLE PCG02 Mini PC Stick is a highly portable and versatile computing device. Key features include:

- **Processor:** Gemini Lake Refresh Celeron N4000 (1.1GHz to 2.6GHz) Dual-core processor.
- **Memory & Storage:** 4GB LPDDR4 (2133 MHz) RAM and 128GB eMMC 5.1 storage. Supports Micro SDXC card expansion.
- **Operating System:** Pre-installed with Windows 11 Home 64-bit, also supports Linux OS (e.g., Ubuntu, Debian).
- **Connectivity:** 2.4G/5GHz Dual band Wi-Fi 5, Bluetooth 4.2, and a Gigabit Ethernet port (RJ45).
- **Display:** HDMI 2.0 port supporting 4K video playback (local content only).
- **Design:** Fanless, 0dB silent operation, compact and lightweight.
- **Interfaces:** 2 x USB 3.2 Type A, 1x HDMI 2.0, 1x Gigabit LAN, 1x Micro SD Card Slot, 1x 3.5mm Combo Audio jack, 1x Kensington Lock Slot.

2.1. Package Contents

The standard package includes:

- MeLE PCG02 Mini PC Stick
- Power Adapter

- HDMI Extension Cable (9.8 inches / 25 cm)
- User Manual (this document)

2.2. Device Layout and Ports

Multi-ports For Multi-Purpose

* Support up to 2TB Micro SD Card Expansion



Projector



HDTV



Monitor



Server



Monitoring equipment



Printer

Figure 2.2.1: MeLE PCG02 Mini PC Stick with labeled ports and dimensions.

This image displays the MeLE PCG02 Mini PC Stick from an angled top-down view, highlighting its various ports and features. Key components are numbered and include: 1. Kensington Lock Slot, 2. Gigabit Ethernet Port, 3. 3.5mm Audio Combo Jack, 4. HDMI Display Output, 5. Power Button, 6. Thermal Engineering Plastic Cover, 7. Power Input (5V=3A), 8. USB 3.0 ports (x2), 9. Micro SD Card Slot, and 10. WiFi Antenna. The image also shows common devices that can be connected, such as a projector, HDTV, monitor, server, monitoring equipment, and printer.

Mini and Portable

Compact Pocket Size, Convenient for Business Trip and Travelling

Size: 14*6*1.95 cm / 5.5*2.4*0.77 inches Weight: 120g / 0.26lb

Phone



PCG02



Figure 2.2.2: Size comparison of MeLE PCG02 Mini PC Stick with a smartphone.

This image illustrates the compact size of the MeLE PCG02 Mini PC Stick by comparing its dimensions to a typical smartphone. The PCG02 measures 140mm (5.5 inches) in length, 60mm (2.4 inches) in width, and 19.5mm (0.77 inches) in thickness, weighing approximately 120g (0.26 lb). This visual comparison emphasizes its portability.

3.1. Initial Connection

1. **Connect to Display:** Plug the MeLE PCG02 directly into an HDMI port on your TV or monitor. If space is limited, use the provided HDMI extension cable.



Figure 3.1.1: Two methods for connecting the MeLE PCG02 to a display.

This image shows two options for connecting the MeLE PCG02 Mini PC Stick to a display. Option A depicts the PC stick plugged directly into an HDMI port. Option B shows the PC stick connected via the included HDMI extension cable, offering more flexibility for installation.

2. **Connect Peripherals:** Connect your USB keyboard and mouse to the USB 3.2 Type A ports.
3. **Power On:** Connect the provided power adapter to the 5V/3A power input port. The device will typically power on automatically or can be powered on using the power button.
4. **Network Connection (Optional):** For a stable and fast internet connection, connect an Ethernet cable to the Gigabit LAN port. Alternatively, you can configure Wi-Fi after initial setup.



Figure 3.1.2: Connectivity options: Gigabit Ethernet, Dual Band Wi-Fi, and Bluetooth.

This image highlights the MeLE PCG02's connectivity features, including its Gigabit Ethernet port for wired network connections, Dual Band Wi-Fi (2.4GHz & 5GHz) for wireless internet, and Bluetooth 4.2 for connecting wireless peripherals. The image emphasizes the stability and speed offered by the wired connection.

3.2. Initial Windows Setup

Upon first boot, the Windows 11 Home operating system will guide you through the initial setup process. Follow the on-screen prompts to:

- Select your region and keyboard layout.
- Connect to a Wi-Fi network (if not using Ethernet).
- Sign in with your Microsoft account or create a new one.
- Set up a PIN for quick login.
- Adjust privacy settings.

4. OPERATING INSTRUCTIONS

4.1. Power Management

- **Power On:** Press the power button located on the side of the device.
- **Shut Down:** Click the Windows Start button, then Power > Shut down.
- **Restart:** Click the Windows Start button, then Power > Restart.
- **Sleep:** Click the Windows Start button, then Power > Sleep.
- **Auto Power On:** The device supports Auto Power On. To enable this feature, enter the BIOS settings (see Section 5.1) and navigate to Chipset > Common Function > Power on by auto or Manual > Select Auto Power on. Save and Exit.

4.2. Expanding Storage

The MeLE PCG02 supports storage expansion via a Micro SDXC card. Insert a Micro SD card into the dedicated slot to increase available storage space for files and applications.



Figure 4.2.1: Micro SD card slot for storage expansion.

This image shows a close-up of the Micro SD card slot on the MeLE PCG02 Mini PC Stick, indicating support for up to 1TB of expansion. The slot is clearly visible on the side of the device, ready for a Micro SD card insertion.

4.3. Display Settings

The PCG02 supports 4K Ultra HD display for local video playback. To adjust display settings in Windows:

1. Right-click on the desktop and select "Display settings."
2. Adjust resolution, scale, and multiple display options as needed.

Support 4K Ultra HD Display

Multiple Application Options Great choice
for multiple industrial and commercial network devices



Figure 4.3.1: MeLE PCG02 connected to a 4K Ultra HD monitor.

This image depicts the MeLE PCG02 Mini PC Stick connected to a large monitor displaying 4K Ultra HD content. The image highlights the device's capability to support high-resolution displays, showing a comparison between 1080p, 2.5K, and 4K UHD resolutions.

5. MAINTENANCE

5.1. BIOS Settings

To enter BIOS settings:

1. Press the power button.
2. Continuously press **F7** or **Delete** to enter the boot menu.
3. Select "Enter Setup" and press **Enter**.

The BIOS is unlocked and supports features like Auto Power On, Wake On LAN, PXE/iPXE/USB/UEFI Boot, and S5 RTC Wake.

5.2. Reinstalling Windows OS

To reinstall Windows OS, follow these steps:

1. Prepare a USB flash drive with NTFS file system.
2. Download the latest Windows image from the MeLE forum and decompress the .zip file.
3. Copy all system files from the Windows image to the root directory of your USB flash drive.
4. Plug the USB flash drive into the Mini PC and connect a keyboard.
5. Press the power button and continuously press **F7** or **Delete** to enter the boot menu. Select your USB flash drive to reinstall Windows OS. No separate driver installation is needed with the provided image.
6. The Mini PC will shut down when the installation is complete. Remove the USB flash drive, then press the power button to power on your Mini PC.

5.3. Reinstalling Graphic Driver

If you encounter display issues, reinstalling the graphic driver may resolve them. Follow these steps:

1. **Enter Device Manager:** Right-click the Windows Start button and select "Device Manager."
2. **Uninstall Display Adapters:** Expand "Display adapters," right-click on your graphics driver (e.g., "Intel UHD Graphics"), and select "Uninstall device." Check "Attempt to remove the driver for this device" and click "Uninstall."
3. **Uninstall Display Audio:** Expand "Sound, video and game controllers," right-click on "Intel Display Audio," and select "Uninstall device." Check "Attempt to remove the driver for this device" and click "Uninstall."
4. **Scan for Hardware Changes:** In Device Manager, click "Action" then "Scan for hardware changes." The system will detect and reinstall the basic display adapter.
5. **Update Graphic Driver:** Right-click on the basic display adapter under "Display adapters" and select "Update driver." Choose "Browse my computer for drivers."
6. **Select Driver File:** Browse to the location where you have the graphic driver files (e.g., from the MeLE forum or a driver backup). Click "OK" and then "Next" to complete the installation.

Your browser does not support the video tag.

Video 5.3.1: How To Reinstall Graphic Driver On MeLE Mini PC.

This video tutorial demonstrates the step-by-step process of reinstalling the graphic driver on a MeLE Mini PC. It covers entering Device Manager, uninstalling existing display and audio drivers, scanning for hardware changes, and finally updating the graphic driver by browsing for the driver files on the computer.

5.4. Windows Activation

Each MeLE Mini PC comes with a preinstalled Windows 11 License. Windows will activate automatically when the Mini PC is connected to the internet. The Windows 11 License ID/Product Key sticker is available on the product itself.

5.5. Cleaning and Care

Due to its fanless design, the PCG02 is less prone to dust accumulation. However, regular cleaning is recommended:

- Use a soft, dry cloth to wipe the exterior of the device.
- Avoid using liquid cleaners or aerosols directly on the device.
- Ensure all ports are free from dust and debris.

MeLE Patented Fanless Cooling Technology

No Fan, no noise, no dust.

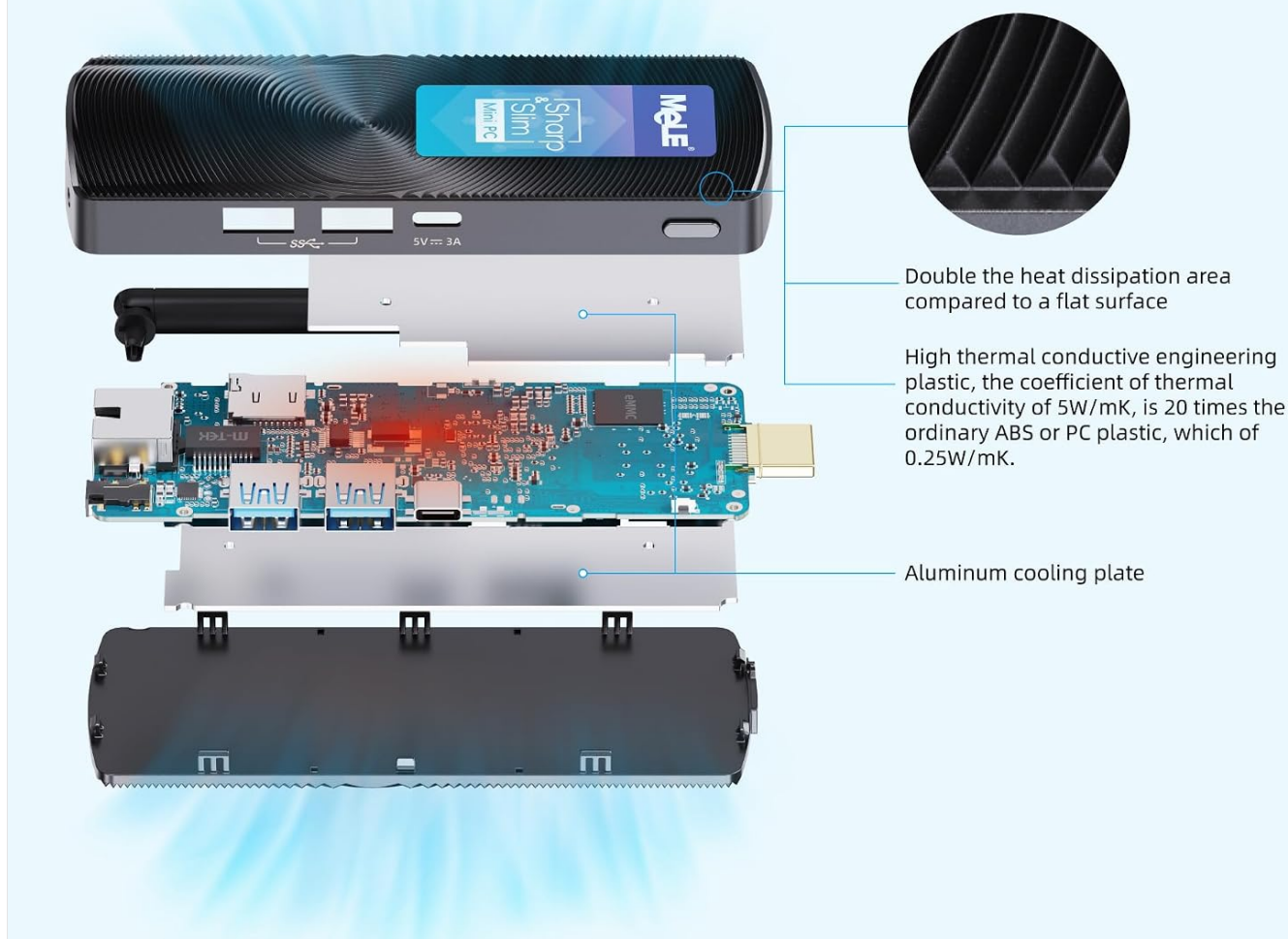


Figure 5.5.1: Internal view highlighting the fanless cooling technology.

This image provides an exploded view of the MeLE PCG02 Mini PC Stick, showcasing its internal components and emphasizing its patented fanless cooling technology. It illustrates how the thermal engineering plastic cover and aluminum cooling plate dissipate heat, resulting in 0dB silent operation without a fan. The image also notes that the surface temperature may reach 55°C to 70°C, which is normal for fanless designs and meets safety standards.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Incorrect power adapter or insufficient power.	Ensure you are using the original MeLE 5V/3A power adapter. Do not use power banks or other Type-C power supplies.
No display output.	Loose HDMI connection, incorrect input selected on display, or graphic driver issue.	Check HDMI cable connection. Ensure your TV/monitor is on the correct HDMI input. Try reinstalling the graphic driver (see Section 5.3).

Problem	Possible Cause	Solution
Windows not activated.	No internet connection.	Connect the Mini PC to the internet (Ethernet or Wi-Fi). Activation is automatic. The product key is on a sticker on the device.
Slow performance.	Too many applications running, limited RAM for demanding tasks.	Close unnecessary applications. This is an entry-level PC; it is not designed for high-demand tasks like heavy gaming or video rendering.
Device feels warm.	Normal operation for fanless design.	This is expected. The fanless design dissipates heat through the casing. Surface temperatures of 55°C to 70°C are normal and within safety standards.

7. SPECIFICATIONS

Feature	Detail
Brand	MeLE
Model Number	PCG02
Processor	Intel Celeron N4000 (1.1GHz to 2.6GHz) Dual-core
RAM	4 GB LPDDR4 (2133 MHz)
Storage	128 GB eMMC
Graphics	Intel UHD Graphics 600
Operating System	Windows 11 Home 64-bit (supports Linux OS)
Wi-Fi	2.4G/5GHz Dual band Wi-Fi 5 (802.11ac)
Bluetooth	Bluetooth 4.2
Ethernet	1x RJ45 Gigabit LAN Port
USB Ports	2x USB 3.2 Type A
Video Output	1x HDMI 2.0 (supports 4K local video playback)
Audio Output	1x 3.5mm Combo Audio jack
Card Slot	1x Micro SD Card Slot (supports up to 1TB)
Security	1x Kensington Lock Slot
Dimensions (LxWxH)	5.51 x 2.36 x 0.77 inches (140 x 60 x 19.5 mm)
Item Weight	4.2 ounces (120g)
Power Input	5V/3A (Micro-USB)

8. WARRANTY AND SUPPORT

MeLE provides comprehensive support for its products:

- **Warranty:** 12-month warranty.
- **Free Replacement:** 3-month free replacement for eligible issues.
- **Technical Support:** Lifetime technical support.
- **Service Contact:** For support inquiries, please contact Service@mele.cn.
- **Response Time:** 24-hour reply for inquiries.



Figure 8.1: MeLE customer support details.

This image summarizes MeLE's customer support offerings, including a 24-hour reply service, 3-month free replacement, 12-month warranty, and lifetime service. It also provides the service contact email: Service@mele.cn.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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