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› MeLE Fanless Mini PC Stick PCG02 Pro N5105 8GB/256GB, WiFi5 USB PD3.0, Micro Computer Desktop Dual HDMI, Gigabit Ethernet BT5.1, Compact SFF on Business Office Industrial IoT Home 8GB/256GB PC Stick PCG02 Pro-N5105

MeLE PCG02 Pro

MeLE PCG02 Pro N5105 Mini PC Stick User Manual

Model: PCG02 Pro

INTRODUCTION

The MeLE PCG02 Pro N5105 is a fanless mini PC stick designed for versatile computing needs, offering a compact and portable solution for home, office, industrial IoT, and multimedia applications. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.



Image: The MeLE PCG02 Pro N5105 Mini PC Stick, showcasing its compact design and various ports.

PACKAGE CONTENTS

Before proceeding, please verify that all items are present in your package:

- 1x MeLE PCG02 Pro Stick PC 82E
- 1x Power Adapter (12V/2A)
- 1x VESA Mount
- 1x User Manual (this document)

SETUP

1. Connecting to a Display

The PCG02 Pro features dual HDMI 2.0 ports, supporting up to 4K 60Hz resolution for each display. This allows for dual

monitor setups, enhancing productivity.

1. Connect one or two HDMI cables from the PCG02 Pro to your monitor(s) or TV.
2. Ensure your display is set to the correct HDMI input.

Simultaneously Perform Two Tasks

2 HDMI Output, Supports Dual 4K 60Hz Displays

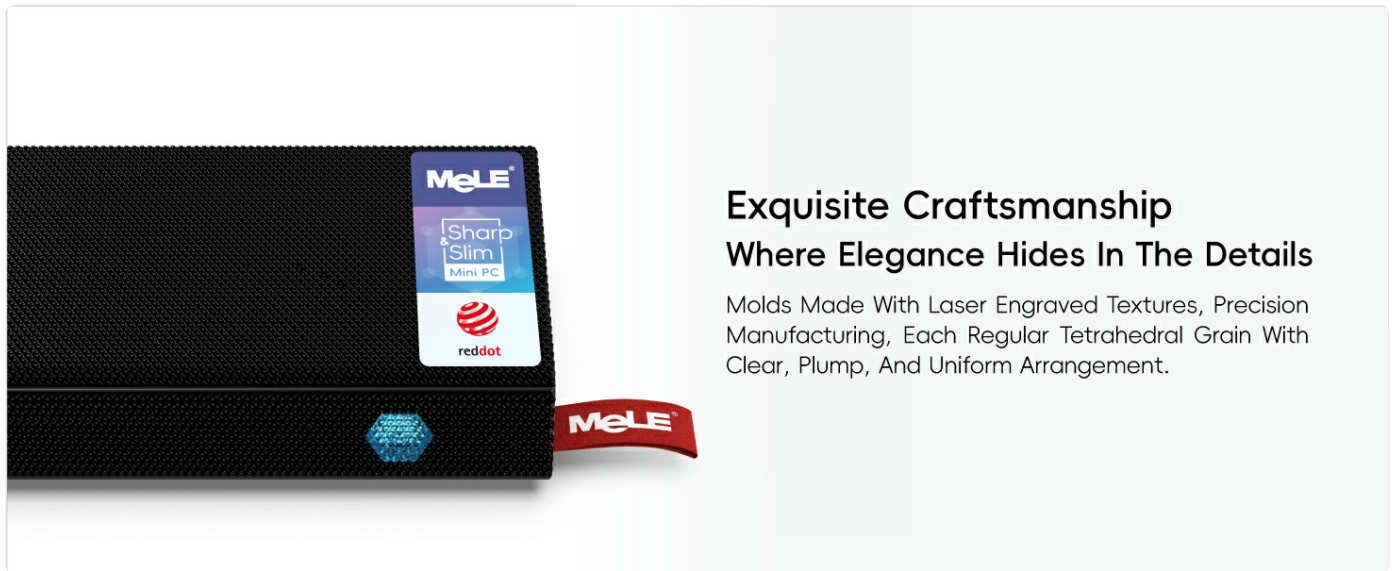


Image: The MeLE PCG02 Pro connected to two external monitors, demonstrating its dual display capability.

2. Powering On the Device

The PCG02 Pro supports USB PD3.0, allowing flexible power options.

1. Connect the provided 12V/2A power adapter to the USB Type-C PD3.0 port on the PCG02 Pro.
2. Plug the power adapter into a wall outlet.
3. Alternatively, the device can be powered by a power bank or power station with an output voltage higher than 12V and power greater than 24W.



Exquisite Craftsmanship Where Elegance Hides In The Details

Molds Made With Laser Engraved Textures, Precision Manufacturing, Each Regular Tetrahedral Grain With Clear, Plump, And Uniform Arrangement.

Image: A detailed diagram of the MeLE PCG02 Pro's multi-functional ports, including the USB Type-C PD3.0 power input, Gigabit Ethernet, Micro-SD slot, 3.5mm Audio Combo Jack, HDMI 2.0 ports, USB 3.2 ports, and Kensington Lock Slot.

3. Initial Boot and Operating System Setup

The PCG02 Pro comes with a pre-installed operating system (e.g., Windows 11 Pro). Follow the on-screen prompts for initial setup, including language, region, network connection, and user account creation.

For network connectivity, the device supports dual-band WiFi (802.11ac) and Gigabit Ethernet.

Agile Communication Always Online

Enhanced Network Communication Experience With Intel WiFi Module
And Dual-Channel Omni-directional High-Gain Antennas



Faster Speed

Dual-Band WiFi
2.4+5.0GHz
Up To 1.73Gbps
Transmission Speed



MU-MIMO

Exceptional User
Speed In Dense
Deployments



Better Coverage

Less Congestion,
Faster Speed
Farther Away From
The Router



Larger Capacity

Can Improve Overall
Downlink Network
Capacity Potentially
By Over 3X⁶

Image: An illustration highlighting the MeLE PCG02 Pro's advanced network communication features, including dual-band WiFi and omni-directional high-gain antennas for faster speed, MU-MIMO support, better coverage, and larger capacity.

OPERATING THE MeLE PCG02 Pro

General Usage

The MeLE PCG02 Pro is designed for a wide range of applications, including:

- **Office Productivity:** Ideal for applications like Microsoft Office, email, and web browsing.
- **Home Entertainment:** Stream 4K video content, browse the web, and enjoy multimedia.
- **Industrial IoT & Digital Signage:** Its compact size and stable 24/7 operation make it suitable for embedded systems.
- **Education & Business:** Supports video calls (Zoom, Skype), presentations, and various business applications.

Meet All Your Life's Needs



Image: A collage demonstrating various applications of the MeLE PCG02 Pro, including online study, home entertainment, home office work, commercial display, video calls, and media publishing.

Storage Expansion

The device comes with 256GB eMMC storage. For additional storage, a Micro SD card can be inserted into the Micro SD slot, supporting expansion up to 2TB. Please note that this N5105 model does not support SSD expansion due to PCB space limitations.

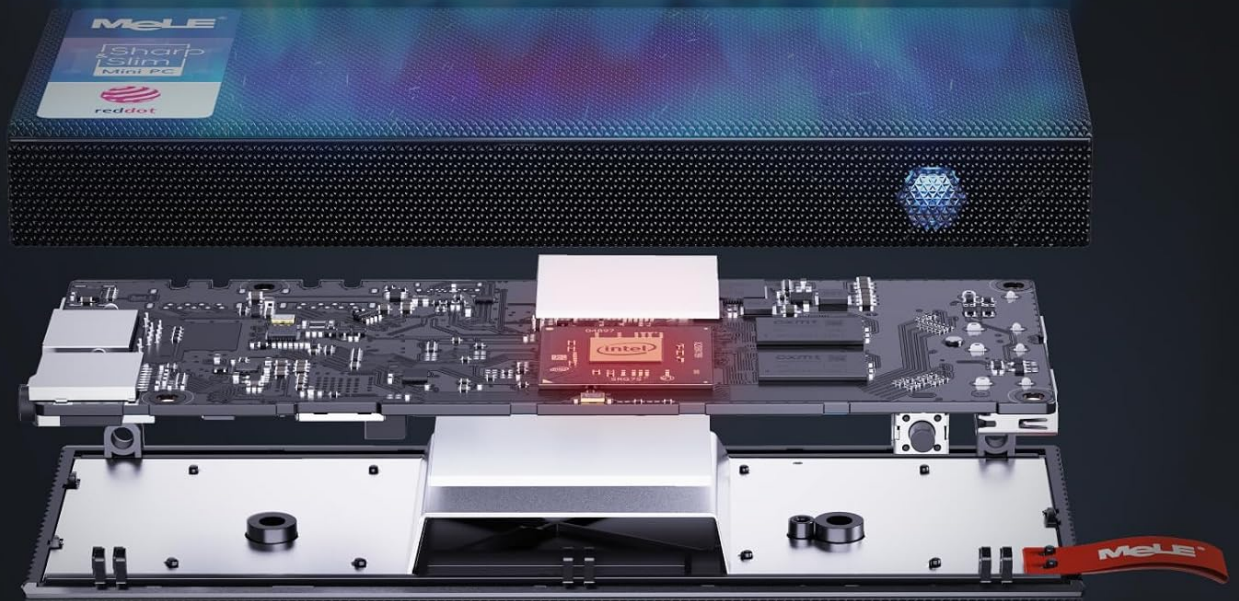
MAINTENANCE

Fanless Cooling System

The PCG02 Pro features an elegant fanless cooling design, ensuring silent operation and dust resistance. This passive cooling system prevents overheating and supports 24/7 operation. Due to its fanless nature, the surface temperature may reach 55°C to 70°C during operation, which is normal and meets IEC62368-1:2018 safety standards.

Outstanding Cooling Performance

Super Polymer Material With High Specific Heat Capacity,
Omni-directional Efficient Heat Conduction



Excellent Thermal Conductivity

Only 2 Degrees Temperature Difference Between CPU Core And Outer Shell Surface

Image: An illustration detailing the MeLE PCG02 Pro's "Supercritical" cooling technology, which utilizes super polymer material with high specific heat capacity and omni-directional efficient heat conduction for outstanding cooling performance, resulting in only a 2-degree temperature difference between the CPU core and outer shell surface.

Cleaning

To clean the device, use a soft, dry cloth. Avoid using liquid cleaners or aerosols, as they may damage the internal components.

Software Updates

Regularly check for and install operating system updates and driver updates to ensure optimal performance and security. These updates are typically managed through the operating system's built-in update features.

TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Device does not power on.	No power, faulty adapter, or incorrect power source.	Ensure the power adapter is securely connected and plugged into a working outlet. Verify the power source meets PD3.0 requirements (12V+ output, 24W+ power).
No display output.	Incorrect HDMI connection, wrong display input, or display issue.	Check HDMI cable connections. Ensure your monitor/TV is set to the correct HDMI input. Test with a different HDMI cable or display if possible.
No internet connection (Wi-Fi/Ethernet).	Network configuration issues, weak signal, or router problem.	Verify Wi-Fi password. Check Ethernet cable connection. Restart your router. Ensure drivers are up to date.
Device feels warm to the touch.	Normal operation for fanless design.	This is expected. The fanless design allows for silent operation but results in higher surface temperatures (55-70°C). Ensure adequate airflow around the device.
Slow performance.	Too many applications running, low storage space, or outdated drivers.	Close unnecessary applications. Free up storage space. Update operating system and drivers.

If you encounter issues not listed here, please refer to the support section for further assistance.

SPECIFICATIONS

Feature	Detail
Model	PCG02 Pro N5105
Processor	Intel Celeron N5105 (Quad-Core, 2.0 GHz base, up to 2.9 GHz burst)
RAM	8 GB LPDDR4 (2933 MHz)
Storage	256 GB eMMC
Expandable Storage	Micro SD slot (up to 2TB)
Graphics	Integrated Intel Graphics (8 GB Graphics Card Ram Size)
Video Output	2x HDMI 2.0 (Supports Dual 4K 60Hz Displays)
Wireless Connectivity	802.11ac (WiFi5), Bluetooth 5.1
Wired Connectivity	Gigabit Ethernet Port
USB Ports	2x USB 3.2, 1x USB Type-C
Power Input	USB Type-C PD3.0 (12V+ output, 24W+ power source required)
Audio	3.5mm Audio Combo Jack
Operating System	Pre-installed Windows 11 Pro (Supports Linux, Ubuntu)

Feature	Detail
Cooling	Fanless Passive Cooling
Dimensions (LxWxH)	5.7 x 2.4 x 0.78 inches
Weight	6.4 ounces
Color	Black

Warranty and Support

MeLE is committed to providing reliable products and excellent customer service. Your PCG02 Pro N5105 Mini PC Stick comes with comprehensive support.

Warranty Information

- Standard Warranty:** 12-month warranty from the date of purchase.
- Free Replacement:** 3-month free replacement for eligible issues.
- Lifetime Service:** MeLE provides lifetime technical support for its products.

Contact Support

For technical assistance, warranty claims, or any product-related inquiries, please contact MeLE support:

- Email:** Service@mele.cn
- Phone:** +86-0755-8636 3200
- Online:** Visit the official MeLE store on Amazon or their website for FAQs and additional resources.

MeLE is an authorized Microsoft OEM partner, ensuring that all MeLE mini PCs with Windows Pro OS are legally licensed by Microsoft. The product is manufactured in accordance with FCC, IC, CE, UKCA, PSE, and TELEC standards.

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

Open the live page

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