

MeLE PCG02 Pro

MeLE Fanless Stick PC PCG02 Pro N100 User Manual

Model: PCG02 Pro N100

1. INTRODUCTION

The MeLE Fanless Stick PC PCG02 Pro N100 is a compact mini computer designed for various applications including home, office, business, and industrial use. It features a fanless design for silent operation and dust resistance, ensuring stable performance.

Key features include:

- **High Performance:** Powered by a Quad-Core Alder Lake 12th N100 processor with up to 3.4 GHz, offering efficient task processing.
- **Versatile Connectivity:** Equipped with USB 5Gbps, USB-C, Micro-SD Slot, dual HDMI, and Gigabit Ethernet.
- **Ample Memory & Storage:** 8GB 4266MHz LPDDR4 memory and 128GB eMMC storage, expandable up to 2TB via Micro SD.
- **Compact & Durable Design:** Award-winning ultra-thin design with passive cooling for 24/7 operation.

2. WHAT'S IN THE BOX

Upon opening the package, you will find the following items:

- 1x MeLE PCG02 Pro Stick PC N100
- 1x Power Adapter (12V/2A)
- 1x VESA Mount
- 1x User Manual (this document)



Image: MeLE PCG02 Pro N100 Mini PC and its accessories.

For a visual guide on unboxing, please refer to the video below:

Your browser does not support the video tag.

Video: An unboxing demonstration of the MeLE PC Stick Pro Fanless Mini PC, showing all included components.

3. PRODUCT FEATURES AND INTERFACES

The MeLE PCG02 Pro N100 is designed with a variety of ports for comprehensive connectivity:

MeLE[®] Fanless PC Stick PCG02 Pro



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Rich I/O Interfaces



1. Power Input (PD3.0, DC12V/2A)
2. Gigabit Ethernet
3. Micro-SD (TF) Slot (60MB/s)
4. 3.5mm Headset MIC Jack
5. 2x HDMI 2.0 (4K@60Hz)

6. Reset (CMOS/BIOS)
7. Kensington Lock Slot
8. USB-C (10Gbps)
9. 2x USB-A 3.2 Gen2 (10Gbps)
10. Power Button

Image: Detailed view of the MeLE PCG02 Pro N100's rich I/O interfaces, including USB, HDMI, Ethernet, and power ports.

Rear Interfaces:

- **USB 3.2 Gen2 (10Gbps) x2:** For connecting high-speed peripherals.
- **USB Type-C (10Gbps) x1:** For data transfer and power delivery (PD3.0).
- **Kensington Security Lock Slot:** For physical security.

Side Interfaces:

- **HDMI 2.0 (4K@60Hz) x2:** Supports dual display output.
- **Reset Button (CMOS/BIOS):** For system reset.
- **Power Input (PD3.0, DC12V/2A):** Main power connection.
- **Gigabit Ethernet:** For wired network connection.
- **Micro-SD (TF) Slot:** Supports up to 2TB expansion.
- **3.5mm Headset MIC Jack:** For audio input/output.

Front Interface:

- **Power Button:** For turning the device on/off.

4. SETUP INSTRUCTIONS

Follow these steps to set up your MeLE PCG02 Pro N100:

1. **Connect to Display:** Plug one or two HDMI cables from the PCG02 Pro N100 to your monitor(s) or TV. Ensure your display is set to the correct HDMI input.
2. **Connect Peripherals:** Connect your USB keyboard and mouse to the available USB ports on the device.
3. **Connect Power:** Plug the provided power adapter into the DC12V/2A power input port on the side of the PCG02 Pro N100, then plug the adapter into a power outlet. Alternatively, you can use a compatible USB Type-C PD3.0 power source (24W+, 12V-23V).
4. **Power On:** Press the power button located on the front of the device. The power indicator light will illuminate.
5. **Initial Setup:** Follow the on-screen instructions to complete the operating system setup (e.g., Windows 11 Pro).

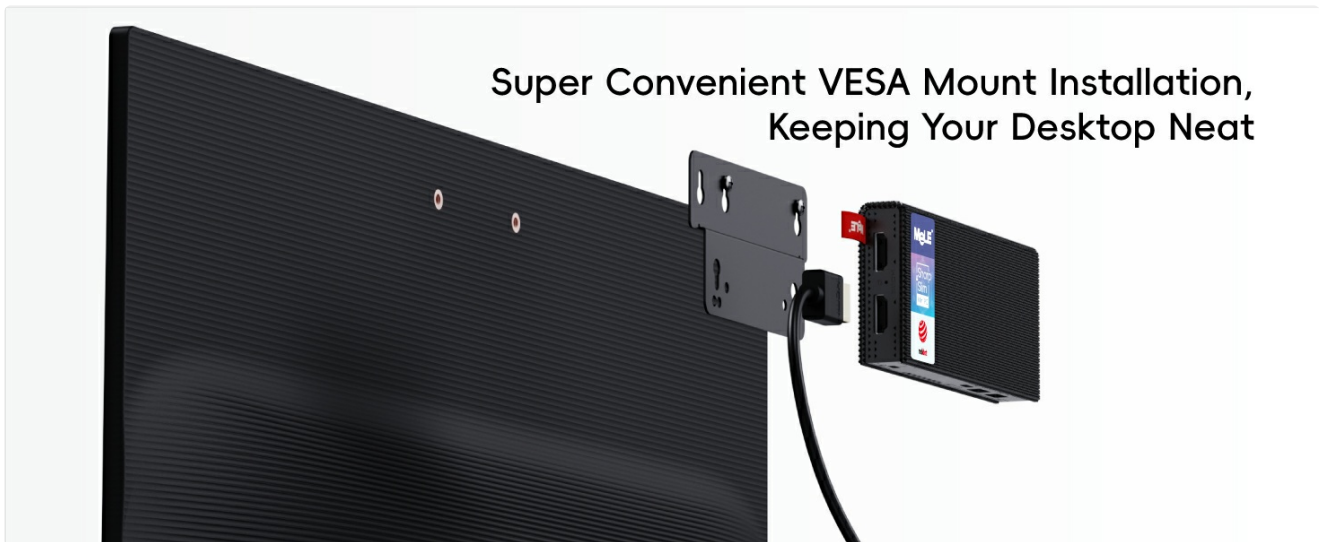


Image: The MeLE PCG02 Pro N100 can be mounted behind a monitor using the included VESA mount for a tidy setup.

5. OPERATING INSTRUCTIONS

Power On/Off:

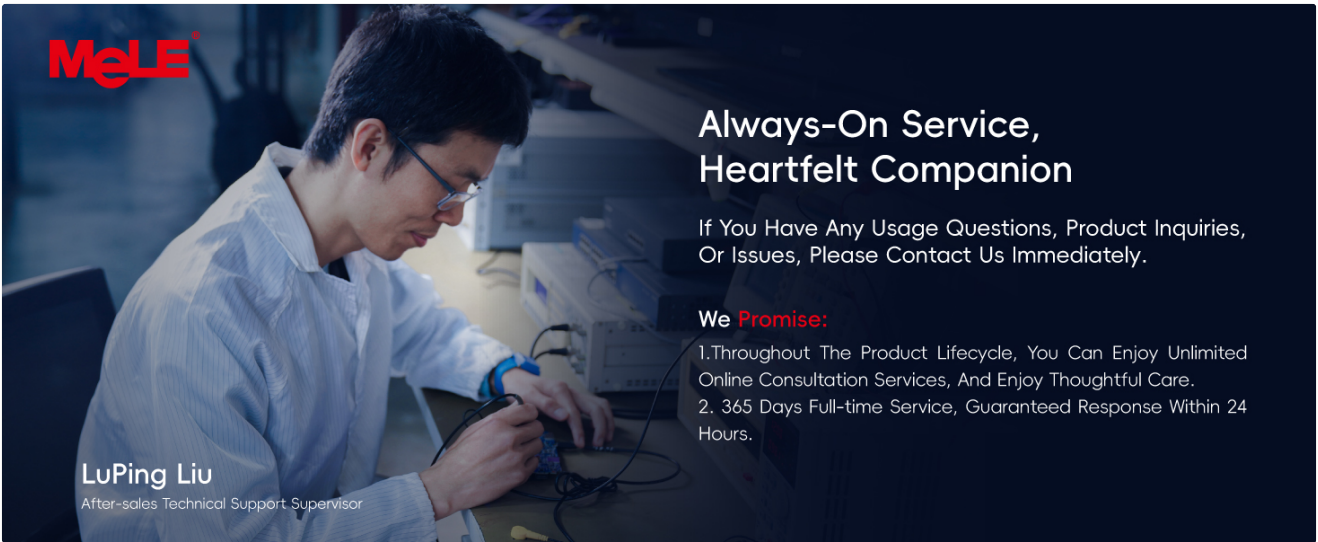
- **To Power On:** Press the power button once.
- **To Power Off:** From the operating system, select 'Shut Down'. Alternatively, press and hold the power button for 5-7 seconds for a forced shutdown (use only when necessary).

Connecting to Network:

- **Wi-Fi:** The device supports WiFi5 (802.11 ac). Access network settings in your operating system to connect to a wireless network.
- **Ethernet:** Connect an Ethernet cable to the Gigabit Ethernet port for a wired network connection.

BIOS Settings:

To access the BIOS settings, press the 'Delete' key repeatedly during startup. The BIOS reset button can be used to restore default BIOS settings if needed.



Always-On Service, Heartfelt Companion

If You Have Any Usage Questions, Product Inquiries,
Or Issues, Please Contact Us Immediately.

We Promise:

1. Throughout The Product Lifecycle, You Can Enjoy Unlimited Online Consultation Services, And Enjoy Thoughtful Care.
2. 365 Days Full-time Service, Guaranteed Response Within 24 Hours.

LuPing Liu

After-sales Technical Support Supervisor

Image: The PCG02 Pro N100 supports dual 4K@60Hz displays, allowing for multi-application management.

6. PERFORMANCE OVERVIEW

The PCG02 Pro N100 is equipped with an Intel N100 processor, 8GB LPDDR4 RAM, and 128GB eMMC storage, providing a balance of performance and efficiency for everyday computing tasks.

MeLE[®] Fanless PC Stick PCG02 Pro SPECS



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2023
GOLD
WINNER

OS



Supports mainstream operating systems, as well as Linux distributions such as Debian/Ubuntu/CentOS/Fedora, etc.

BIOS



Auto Power on RTC Wake up Diskless Start Wake on Lan Boot from USB Change Boot order Hide POST logo Disable LAN/WiFi/BT/USB Ports

Hardware

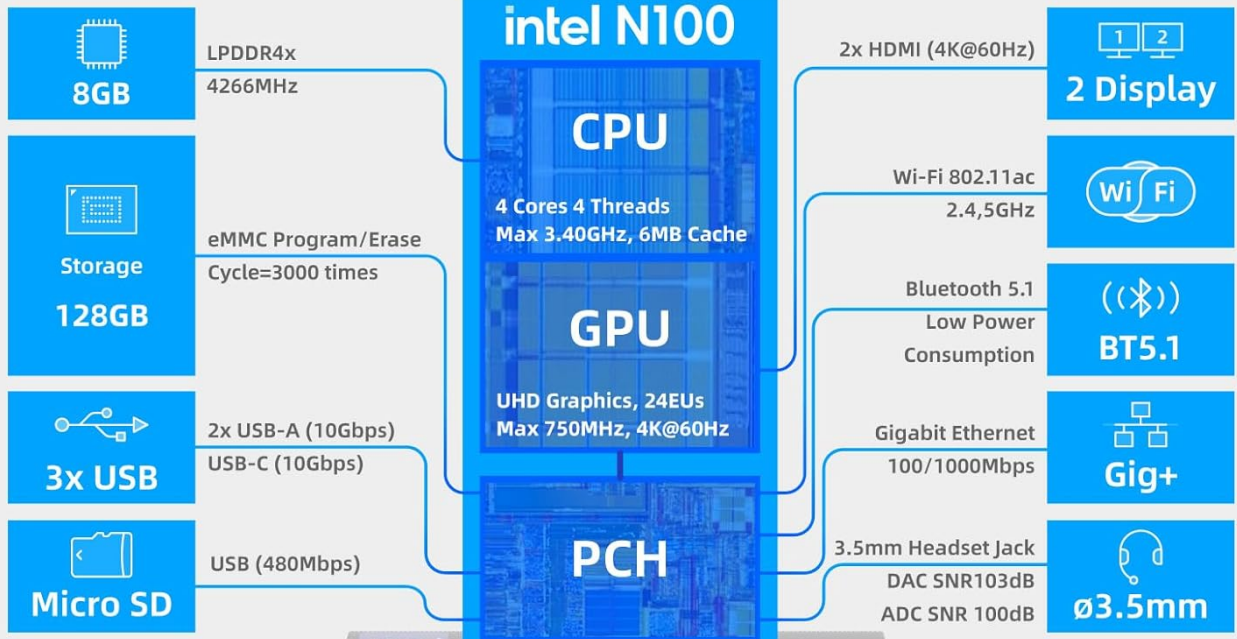


Image: Internal specifications of the MeLE PCG02 Pro N100, highlighting CPU, GPU, memory, and storage.

MeLE® Fanless PC Stick PCG02 Pro



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Higher Performance



CINEBENCH R23

2070pts



Other

Fanless PC Stick PCG02 Pro

Good Overclocking Performance

3.40GHz

Max Turbo Frequency

Turbo Boost Technology

0.80GHz

Basic Frequency

4 Cores 24EUs
4 Threads 4K@60Hz
6MB Smart Cache 3 Displays

Intel
N100



Fanless Design Low Power Consumption



TDP 8W

Thermal Design Power



Fanless



≈0dB



Dustproof



Longer Life

2.6 times

The Fanless Mini PC Stick Pro Heat Dissipation Area (32676 mm²) is 2.6 times that of a Regular Shell (12568mm²)

Image: Performance metrics demonstrating the efficiency of the PCG02 Pro N100's N100 processor.

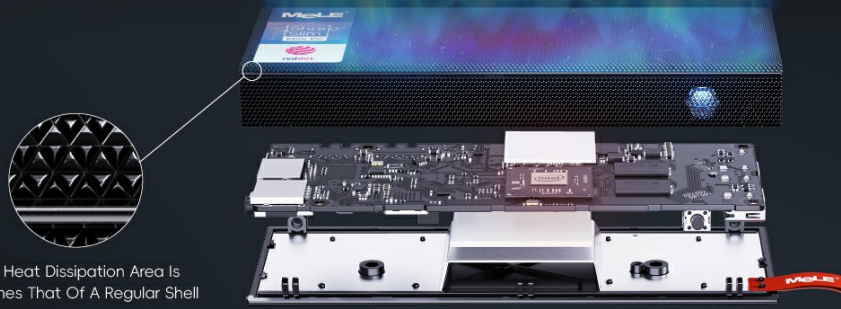
7. COOLING AND DESIGN

The PCG02 Pro N100 features an elegant fanless cooling design, utilizing a passive cooling system to prevent overheating. This design ensures a quiet and stable computing environment, suitable for 24/7 operation, and offers dust resistance.

While fanless mini PCs may exhibit a surface temperature between 55°C to 70°C during operation, this is normal and meets the safety standards of IEC62368-1:2018.

MeLE's Special Innovation: "Supercritical" Technology

Utilizing Heat Conduction, Material Properties, Surface Area For Heat Dissipation, And The Micro-Firflow Disturbance Effect Of The Product's Surface Texture To Achieve Maximum Performance.



The Heat Dissipation Area Is 2.6 Times That Of A Regular Shell

Image: The ultra-thin design of the MeLE PCG02 Pro N100, emphasizing its portability and small footprint.

MeLE[®] Fanless PC Stick PCG02 Pro

No fan, No Noise, No Dust, Just Air.



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Fanless



≈0dB



Dustproof



Longer Life

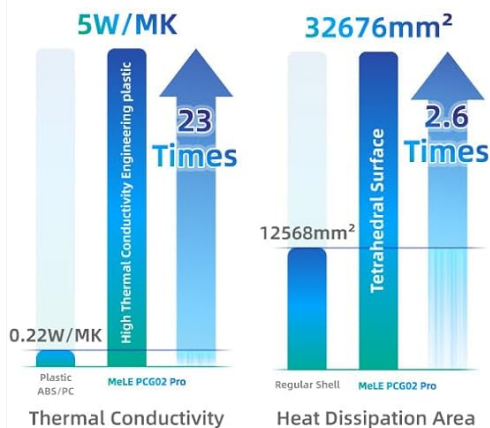


2.6X



Don't Touch the Surface of Mini PC for a Long Time, Avoid being Burned when the Temperature is Too High.

High Thermal Conductivity Engineering plastic, Innovation Design of the Heat Dissipation Surface as a Micro-tetrahedron Surface



Heat Dissipation Surface Design in Accordance with IEC 62368:2018

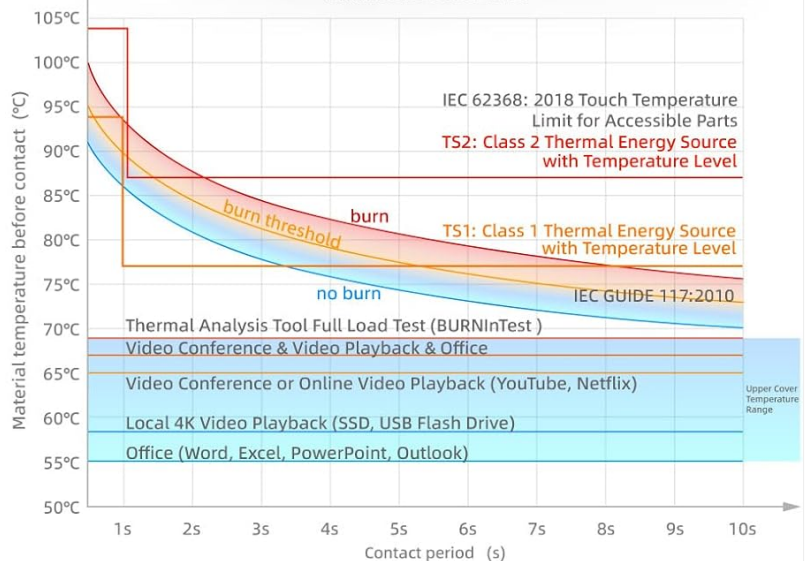


Image: Heat dissipation surface design in accordance with IEC 62368:2018, ensuring efficient passive cooling.

8. QUALITY AND TESTING

The MeLE PCG02 Pro N100 undergoes 32 strict tests covering software, hardware, performance, and reliability to ensure high quality and durability. These tests include aspects like system installation, BIOS function, Wi-Fi signal, GPU performance, and various environmental and physical stress tests.

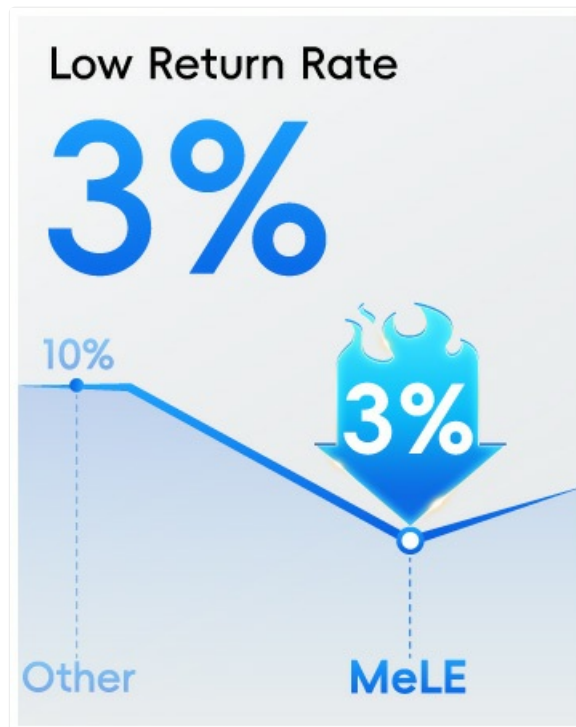
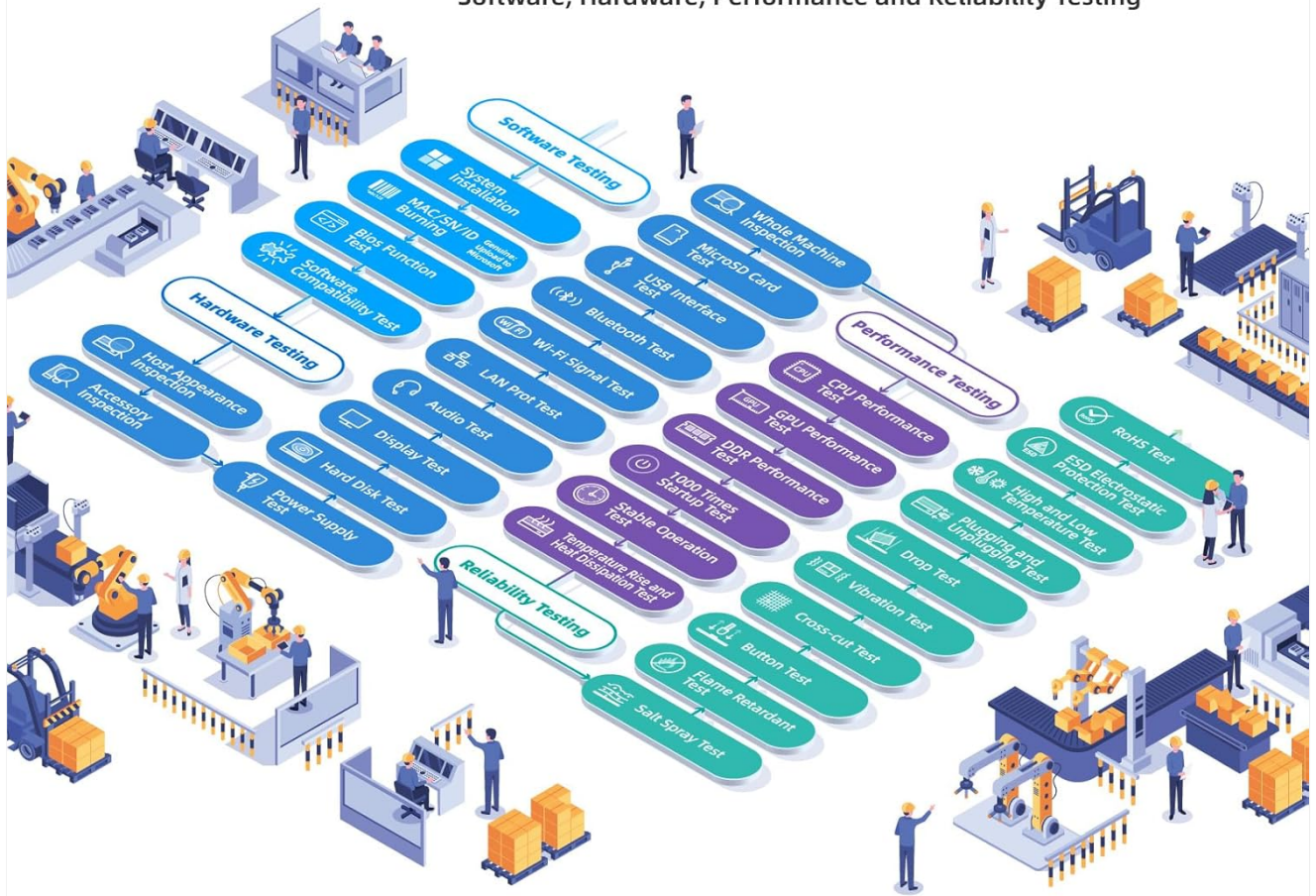


Image: MeLE's commitment to quality results in a low return rate for its products.



Undergo 32 Strict Tests

Software, Hardware, Performance and Reliability Testing



The MeLE Products have Passed the Major Safety Regulation Certifications in the World.

ISO 9001 UCC
IAF
CNAS

Company MeLE has Successfully Achieved ISO 9001 Certification, Ensuring High-Quality Products and Services.

FC CE UKA PSE

Image: Overview of the 32 strict software, hardware, performance, and reliability tests conducted on MeLE products.

9. APPLICATIONS

The MeLE PCG02 Pro N100 is suitable for a wide range of applications:

- **Business & Office:** Ideal for document editing, web browsing, video conferencing, and general office tasks.
- **Industrial:** Can be used for digital signage, kiosks, and other industrial control systems.
- **Home & Education:** Perfect for home theater, online learning, and general personal computing.

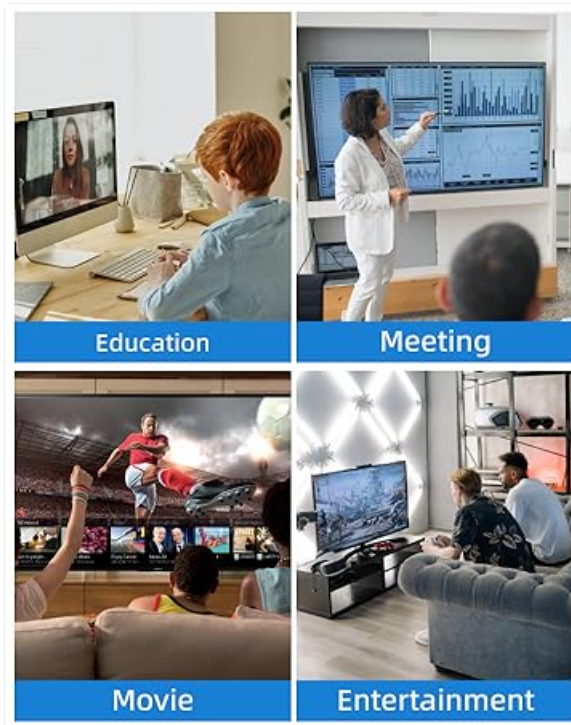


Image: Diverse applications of MeLE mini PCs in education, meetings, entertainment, and home use.

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Cost-effective Microcomputer



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Study Online



Video Calls



Home Office Work



Digital Signage



Flight Information Display System



Warehouse Management



Enterprise Resource Planning

Image: Examples of the PCG02 Pro N100 in use for studying, video calls, home office work, and digital signage.

10. MAINTENANCE

To ensure the longevity and optimal performance of your MeLE PCG02 Pro N100, follow these maintenance guidelines:

- **Keep Clean:** Regularly wipe the exterior with a soft, dry cloth. Avoid using liquid cleaners directly on the device.
- **Ensure Airflow:** Although fanless, ensure the device's textured surface is not obstructed to allow for proper heat dissipation. Do not cover the device.
- **Avoid Extreme Temperatures:** Operate the device within recommended temperature ranges. Avoid direct sunlight or placement near heat sources.
- **Safe Handling:** Handle the device with care to prevent physical damage.

11. TROUBLESHOOTING

If you encounter issues with your MeLE PCG02 Pro N100, try the following troubleshooting steps:

- **No Power:**

- Ensure the power adapter is securely connected to both the device and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- If using a USB-C PD power source, ensure it meets the 24W+, 12V-23V requirements.

- **No Display:**

- Check that the HDMI cable(s) are securely connected to both the PC and the monitor.
- Ensure your monitor is set to the correct HDMI input source.
- Try connecting to a different monitor or using a different HDMI cable.

- **Slow Performance:**

- Close unnecessary applications running in the background.
- Ensure the device has adequate ventilation and is not overheating.
- Check for available operating system updates.

- **BIOS Reset:** If you experience boot issues related to BIOS settings, use the small reset button on the side of the device to restore default BIOS settings.

12. SPECIFICATIONS

Feature	Detail
Brand	MeLE
Model Name	PCG02 Pro
CPU Model	Intel N100 (Quad-Core, up to 3.4 GHz)
Memory (RAM)	8 GB LPDDR4 (4266 MHz)
Storage	128 GB eMMC (expandable via Micro SD up to 2TB)
Graphics	Integrated Intel Graphics
Video Output	2x HDMI 2.0 (supports 4K@60Hz dual display)
USB Ports	2x USB 3.2 Gen2 (10Gbps), 1x USB Type-C (10Gbps, PD3.0)
Network	Gigabit Ethernet, WiFi5 (802.11ac), Bluetooth
Audio	3.5mm Headset MIC Jack
Operating System	OS (Pre-installed Windows 11 Pro on some variants)
Dimensions	5.7 x 2.4 x 0.78 inches
Weight	180 Grams
Additional Features	Fanless design, VESA mount support, Kensington Lock Slot

13. WARRANTY AND SUPPORT

MeLE provides comprehensive support for its products:

- **Warranty:** One year warranty.
- **Replacement:** Three-month replacement policy.
- **Service:** Lifetime service and technical support.

For any usage questions, product inquiries, or issues, please contact MeLE customer service:

Email: service@mele.cn

Phone: +86-0755-8636 3200

MeLE is committed to providing 24/7 quick replies and guaranteed responses within 24 hours.

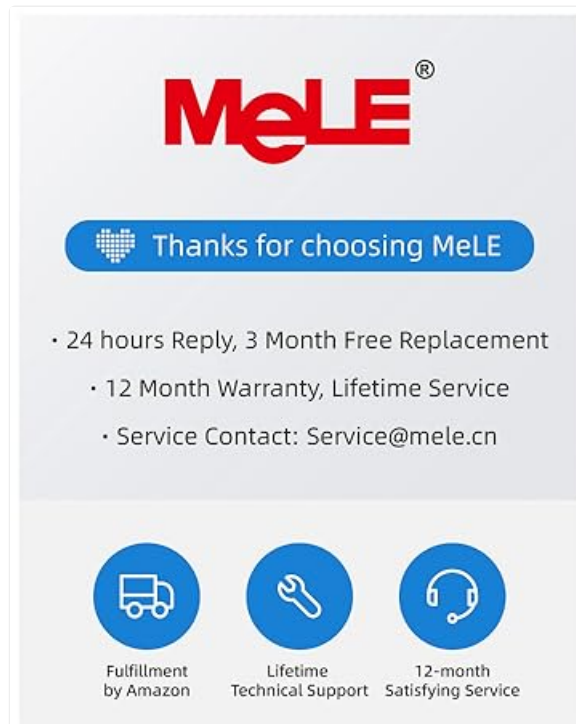


Image: MeLE's customer service details, including email, phone, and warranty information.