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› MeLE Mini PC Quieter 4C - User Manual

MeLE Quieter 4C

MeLE Mini PC Quieter 4C User Manual

Model: Quieter 4C | Brand: MeLE

PRODUCT OVERVIEW

The MeLE Mini PC Quieter 4C is a compact, fanless desktop computer designed for various applications including home, office, education, and astrophotography. It features a 12th Gen Intel Alder Lake-N100 processor, 16GB LPDDR5 RAM, and 512GB SSD storage, offering high performance with low power consumption. Its fanless design ensures silent operation and dust resistance.



A top-down view of the MeLE Mini PC Quieter 4C, showcasing its compact black design and textured top surface.

WHAT'S IN THE BOX

The standard package includes the following items:

- 1 x Quieter4C Mini PC
- 1 x Power Adapter 12V/2A
- 1 x VESA Mount
- 1 x User Manual
- 1 x UL Plug

Two Optional Easy Installation



VESA Installation



Desktop Placement

An image displaying the contents of the MeLE Mini PC Quieter 4C package, including the mini PC, power adapter, VESA mount, user manual, and UL plug.

SETUP

Connecting Peripherals

Before powering on your MeLE Mini PC, connect all necessary peripherals.

- Connect your monitor(s) to the HDMI ports or the full-function USB-C port. The device supports triple 4K display output.
- Connect your keyboard and mouse to the available USB-A ports.
- For wired network access, connect an Ethernet cable to the Gigabit Ethernet port.
- If using external audio, connect speakers or headphones to the 3.5mm audio jack.

Powering On

Connect the provided 12V/2A power adapter to the DC-in port on the mini PC. Alternatively, you can use a compatible USB-C PD3.0 power source (minimum 36W) with the full-function USB-C port. Press the power button located on the device to turn it on.

MeLE[®] Fanless Mini PC Quieter 4C

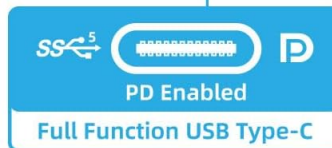
Rich I/O Interfaces



MUSE DESIGN AWARDS



1. 1x USB-A 3.2 Gen1 (5Gbps)
2. 1x USB-A 3.2 Gen2 (10Gbps)
3. USB-A 2.0 (480Mbps)
4. Kensington Lock Slot
5. USB-C (Power Input, USB 10Gbps, DP)
6. Micro-SD (TF) Slot (60MB/s)



7. ϕ 3.5mm earphone & Mic
8. Reset (CMOS/BIOS)
9. 2x HDMI 2.0 (4K@60Hz)
10. Power Input (12V/2A)
11. Gigabit Ethernet
12. Power Button

An exploded view diagram of the MeLE Mini PC Quieter 4C showing its various input/output ports, including USB-A, USB-C, HDMI, Ethernet, and audio jacks.

OPERATING INSTRUCTIONS

Initial Boot and Operating System

The MeLE Mini PC Quieter 4C comes with a pre-installed operating system (OS). Upon first boot, follow the on-screen instructions to complete the initial setup, including language selection, network configuration, and user account creation.

Storage Expansion

The device includes 512GB of internal storage. For additional storage, you can:

- Insert a Micro SD card into the Micro SD slot (supports up to 2TB).
- Install an M.2 2280 SSD (up to 4TB, supporting both NVMe and SATA M.2 SSD) into the internal M.2 slot.



A diagram illustrating the storage expansion options for the MeLE Mini PC, showing the Micro SD card slot and the M.2 2280 SSD slot with theoretical bandwidth comparison.

Wireless Connectivity

The Mini PC supports Wi-Fi 5 (802.11ac) for dual-band 2.4GHz and 5GHz connections, and Bluetooth 5.1 for connecting wireless peripherals.



An image highlighting the Wi-Fi 5, Bluetooth 5.1, and Gigabit Ethernet connectivity features of the MeLE Mini PC.

MAINTENANCE

Fanless Design and Heat Dissipation

The Quieter 4C features a fanless passive cooling system, which means it operates silently and is dust-resistant. Due to its fanless nature, the surface temperature of the mini PC may reach between 55°C to 70°C during operation. This is normal and meets safety standards (IEC62368-1:2018). Avoid direct prolonged contact with the surface when the device is under heavy load.

MeLE[®] Fanless Mini PC Quieter 4C



MUSE DESIGN AWARDS

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



Fanless



≈0dB



Dustproof



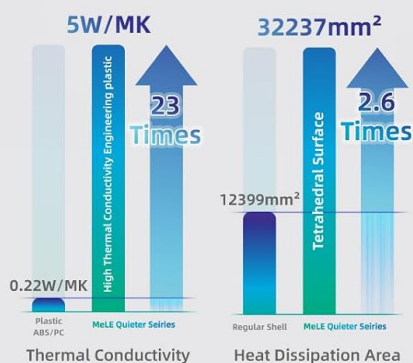
Longer Life



2.6X

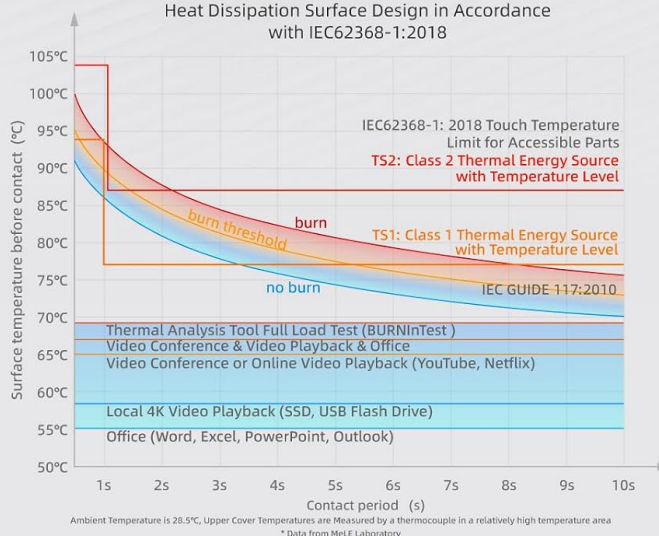


High Thermal Conductivity Engineering plastic, Innovation Design of the Heat Dissipation Surface as a Micro-tetrahedron Surface



Please note that the surface temperature will reach 55°C to 70°C, but it meets the safety standard of the IEC62368-1:2018. Please do not touch hot surface for a long time to avoid burns.

Heat Dissipation Surface Design in Accordance with IEC62368-1:2018



A diagram illustrating the fanless cooling design and heat dissipation characteristics of the MeLE Mini PC Quieter 4C, showing temperature curves and heat dissipation area.

Cleaning

To clean the exterior of the mini PC, use a soft, dry cloth. Do not use liquid cleaners or aerosol sprays. Ensure the device is powered off and unplugged before cleaning.

Software Updates

Regularly update your operating system and drivers to ensure optimal performance and security. Refer to your operating system's documentation for specific update procedures.

TROUBLESHOOTING

Common Issues and Solutions

Issue	Possible Cause	Solution
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Issue	Possible Cause	Solution
No Power	Power adapter not connected or faulty.	Ensure the power adapter is securely connected to the mini PC and a working power outlet. Try a different outlet or adapter if available.
No Display Output	Incorrect cable connection, monitor input, or display settings.	Check HDMI/USB-C cable connections. Ensure your monitor is set to the correct input source. Try a different display cable or monitor.
Wi-Fi/Bluetooth Connectivity Issues	Driver issues, signal interference, or disabled adapter.	Check device manager for driver status. Ensure the mini PC is within range of the Wi-Fi router. Restart the mini PC and router.
Overheating (High Surface Temperature)	Normal operation for fanless design, or insufficient ventilation.	While high surface temperature is normal for fanless PCs (55-70°C), ensure the device is placed in a well-ventilated area and not covered. Avoid placing it on soft surfaces that can block heat dissipation.
Slow Performance	Too many applications running, low storage space, or outdated drivers.	Close unnecessary applications. Check available storage and free up space if needed. Update drivers and operating system.

Resetting CMOS/BIOS

If you encounter persistent boot issues or need to reset BIOS settings, locate the reset button (often labeled "Reset" or "CMOS") on the device. Refer to the "Rich I/O Interfaces" diagram for its exact location. Use a paperclip or similar thin object to press and hold the button for a few seconds while the device is off.

SPECIFICATIONS

The following table outlines the key technical specifications of the MeLE Mini PC Quieter 4C:

Feature	Detail
Processor	12th Gen Intel Alder Lake-N100 (4 Cores, 4 Threads, up to 3.4 GHz)
RAM	16 GB LPDDR5 (4800MHz)
Storage	512 GB SSD (Expandable via Micro SD up to 2TB, M.2 2280 SSD up to 4TB)
Graphics	Integrated Intel UHD Graphics (Supports 4K@60Hz)
Display Output	2x HDMI 2.0, 1x Full-Function USB-C (Triple Display Support)
USB Ports	1x USB 2.0, 2x USB 3.0, 1x Full-Function USB-C (PD3.0, Data, DP)

Feature	Detail
Network	Gigabit Ethernet, Wi-Fi 5 (802.11ac), Bluetooth 5.1
Audio	3.5mm Earphone & Mic Jack
Operating System	OS
Dimensions	5.2 x 3.2 x 0.7 inches (131 x 81 x 18.3 mm)
Weight	1.02 pounds (462g)
Cooling	Fanless Passive Cooling

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

16GB

LPDDR4x

4266MHz

Storage

512GB

SSD M.2 2280

3940MB/s

4x USB

1x USB-A (5Gbps)

1x USB-A (10Gbps)

USB-C (10Gbps)

USB-A (480Mbps)

Micro SD

USB (480Mbps)

intel N100

CPU

4 Cores 4 Threads

Max 3.40GHz, 6MB Cache

GPU

UHD Graphics, 24EUs

Max 750MHz, 4K@60Hz

PCH

USB-C (4K@60Hz)

2x HDMI (4K@60Hz)

Wi-Fi 802.11ac

2.4,5GHz

Bluetooth 5.1

Low Power Consumption

Gigabit Ethernet

100/1000Mbps

3.5mm Headset Jack

DAC SNR103dB

ADC SNR 100dB

3 Display

Wi-Fi

BT5.1

Gig+

ø3.5mm





A detailed diagram outlining the technical specifications of the MeLE Mini PC Quieter 4C, including CPU, GPU, RAM, storage, and connectivity options.

WARRANTY AND SUPPORT

MeLE offers comprehensive support for its products.

Warranty Information

The MeLE Mini PC Quieter 4C comes with a**One Year Warranty**. MeLE is a Microsoft GPA partner and its manufacturing adheres to international standards such as FCC, CE, UKCA, IC, and TELEC.

Customer Service

For any inquiries or support needs, please contact MeLE customer service:

- Email: service@mele.cn
- Phone: +86-0755-8636 3200

MeLE aims to provide customer service replies within 24 hours. Maintenance points are available for exchange or repair during the warranty period.



An image showing MeLE's customer support contact details, including email and phone number, along with warranty information.