



DC-ROMA RISC-V AI PC, RISC-V Mainboard II with Cooler Master Case User Guide

Document Properties	
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Applicable Product Model	DC-ROMA RISC-V AI PC, RISC-V Mainboard II with Cooler Master Case
Operating System Version	Ubuntu 24.04 or Fedora 42
Target Audience	DC-ROMA RISC-V AI PC, RISC-V Mainboard II with Cooler Master Case Users

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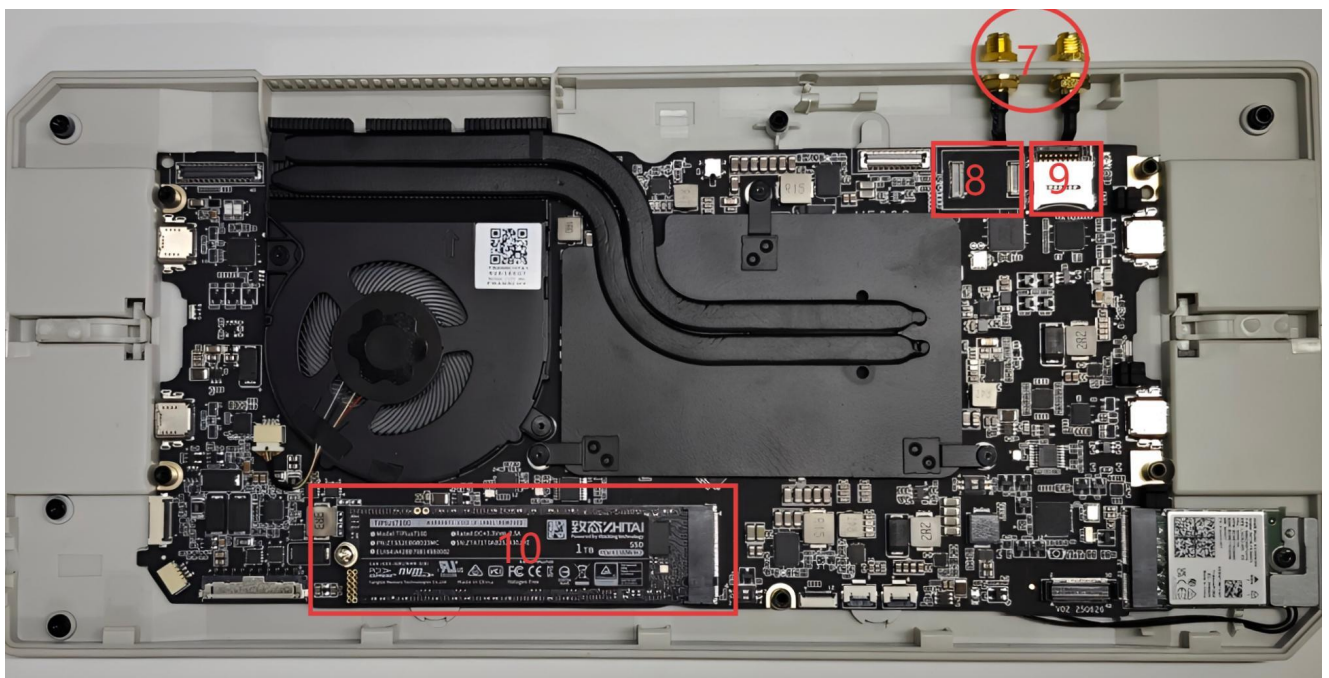
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Interface Description





No.	Interface	Description
1	USB-C Port 1	Supports DP video output, PD charging protocol, and USB 3.0
2	USB-C Port 2	Supports USB 3.0
3	USB-C Port 3	Supports USB 3.0
4	USB-C Port 4	Supports PD charging protocol and USB 3.0
5	Power Button	Power on/off Button.
6	Indicator Light	White light stays on during power-on.
7	Antenna Port	Connects to an external antenna (requires connection to an external antenna).
8	eMMC Slot	Compatible with Orange Pi eMMC Module and Radxa eMMC Module.
9	TF Card Slot	Supports Micro SD cards for data transfer and system installation.
10	PCIe SSD Slot	1) Supports dual-mode adaptive SSDs (SATA III + NVMe) 2) M.2 2280 form factor (80×22mm) 3) Mainboard supports PCIe Gen3×4 lanes

Quick Start

Preparations

- **Power:** 65W or higher PD 3.0-compatible power adapter.
- **Display:** External monitors supporting HDMI and DP input.
- **Peripherals:** Keyboard and mouse.
- **Antenna:** External antenna installation required to ensure proper wireless functionality (provided there is an antenna).



Power-On Steps

1. Connect Power and Display Device:

- Insert the PD 3.0 power adapter into USB-C Port 4
- Select one display output method:
 - a) **HDMI Expansion Card:** Insert an HDMI expansion card into USB-C Port 1 and then use an HDMI cable to connect to the monitor.
 - b) **Direct USB-C connection:** Use USB-C cable (e.g., a full-featured USB-C cable) that supports DP output to connect Port 1 to a monitor with a USB-C input.
 - c) **USB-C Hub with HDMI output:** Connect the USB-C port on the Hub to USB-C Port 1, then connect the monitor to the Hub's HDMI port using an HDMI cable.

2. Connect Peripherals:

- Connect the keyboard to USB-C Port 2.
- Connect the mouse to USB-C Port 3.
- Ensure the external antenna is securely installed.

3. Power On: Press the power button (≥ 0.5 seconds). The indicator will turn white. Wait for the monitor to initialize.

4. Initial System Setup:

- Select your preferred system language.
- Connect to a Wi-Fi network.
- Create a user account.



Core Function Operations

Basic System Operations

- **Application Launcher:** Click the app icons on the left-side Dock to launch applications.
- **Window Management:** Use the minimize, maximize, and close buttons at the top of window.
- **File Manager:** Click the folder icon on the Dock or search the "Files" in the application launcher.
- **System Settings Panel:** Click the icons for network, battery, volume in the upper-right corner for quick adjustment.

Main Functions Features

- **Wi-Fi Connection:** Click the Wi-Fi icon on the taskbar > Settings > Connect to your target network.
- **Bluetooth Pairing:** Click the Bluetooth icon > Settings > Search and pair with devices.
- **Camera:** Use the "Cheese" application to take photos or record videos.
- **Media Playback:** Use the "Video Player" app to play music and videos.
- **Terminal:** Open the "Terminal" app for command-line operations.

Operating Environment & Storage Conditions



- **Operating Temperature:** 0°C to 35°C
- **Storage Temperature:** -20°C to 45°C
- **Humidity Range:** 10% to 90% (non-condensing)

Important Notes

Charging Precautions

- 1. Use Certified Power Adapters:** Do not use uncertified third-party adapters, as they may pose safety risks or cause hardware damage. To ensure safe operation, only use power adapters purchased from official or trusted sources that meet industry standards.
- 2. Avoid High Temperatures Environments while Charging:** Operating the device in hot conditions may lead to overheating and reduce its lifespan. It is recommended to charge the device in a cool, well-ventilated area to ensure stable and safe performance.

Usage Precautions

- 1. Avoid prolonged exposure to high temperatures, low temperatures, or high-humid environments.**
- 2. During use, do not place the device in high-heat areas or under direct sunlight (e.g., inside a car, by a window, or other heat-prone spots). Ensure proper ventilation to prevent overheating.**
- 3. Keep the device away from strong electromagnetic sources (e.g., microwave ovens, large appliances), which may interfere with wireless performance or cause unexpected behavior.**



Maintenance & Troubleshooting

1. Routine Cleaning:

- Use a dry microfiber cloth to wipe the device surface.
- Stubborn stains can be cleaned with a dampened cloth.
- Do not spray liquids directly onto the device.

2. Long-Term Storage:

- Disconnect all power sources.
- Store the device in a dry environment using anti-static packaging.

3. Common Issues & Solutions:

- Device fails to power on: Ensure the PD adapter meets specifications. Check that USB-C Port 4 is securely connected.
- No display output:
 - a) Try replacing a different HDMI or USB-C cable.
 - b) Confirm that the monitor's input source is set correctly.
- Weak wireless signal: Reinstall the external antenna and ensure no metal obstructions are nearby.

For more trouble shooting, refer to: [Troubleshooting Documentation](#)