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> Beelink EQR Mini PC Ryzen 9 6900HX User Manual

Beelink EQR

Beelink EQR Mini PC User Manual

Model: EQR (Ryzen 9 6900HX)

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Beelink EQR Mini PC. Please read this guide thoroughly before using the device to ensure proper functionality and longevity.

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- 1 x Beelink EQR 6900HX 32+500GB Mini PC
- 1 x HDMI Cable
- 1 x AC Cable
- 1 x User Manual (this document)

3. PRODUCT OVERVIEW

The Beelink EQR Mini PC features a compact design with a variety of ports for versatile connectivity. Familiarize yourself with the port layout before connecting peripherals.

Built-in 85W PSU

Simplify your space with less cable clutter and fewer power strips



Image: Overview of the Beelink EQR Mini PC's front and rear interfaces, including USB, HDMI, LAN, and audio ports.

Front Panel Ports:

- **USB 3.2 (10Gbps):** For high-speed data transfer with compatible devices.
- **USB-C (10Gbps):** Versatile port for data, display, or power delivery (check device compatibility).
- **3.5mm Audio Jack:** For headphones or external speakers.
- **Power Button:** To turn the Mini PC on or off.
- **Power Indicator Light:** Indicates the power status (white light when on).
- **CLR CMOS:** Button to clear CMOS settings (use with caution, typically for troubleshooting).

Rear Panel Ports:

- **USB 3.2 (10Gbps):** Additional high-speed USB ports.
- **USB 2.0 (480Mbps):** Standard USB port for peripherals like keyboards and mice.
- **HDMI (Max 4K 60Hz) x2:** For connecting displays.
- **LAN (1000M) x2:** Dual Gigabit Ethernet ports for wired network connections.
- **AC Power Input:** Connect the provided AC power cable here.

4. SETUP GUIDE

4.1 Connecting Peripherals

- Connect Display:** Use the provided HDMI cable to connect your monitor(s) to the HDMI ports on the rear panel. The Mini PC supports dual 4K@60Hz displays.
- Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any available USB ports.
- Connect Network (Optional):** For a wired connection, connect an Ethernet cable from your router or modem to one of the LAN ports on the rear panel.
- Connect Power:** Plug the AC power cable into the AC power input on the rear panel of the Mini PC, then plug the other end into a power outlet.

Product Specification

<ul style="list-style-type: none">• Dimension 126x126x45.5mm(Without Rubber Feet)	<ul style="list-style-type: none">• Wireless Network WiFi 6 (Intel AX200); Bluetooth 5.2
<ul style="list-style-type: none">• CPU AMD Ryzen™ 9 6900HX processor Max Turbo Frequency 4.9GHz (8C/16T) 16MB Cache	<ul style="list-style-type: none">• Power LED & Button 1
<ul style="list-style-type: none">• Graphics AMD Ryzen™ 680M 12 Cores 2400MHz	<ul style="list-style-type: none">• CLR CMOS 1
<ul style="list-style-type: none">• System Disk M.2 2280 PCIe4.0x4 4TB MAX	<ul style="list-style-type: none">• AC Cable 100-240~; 50/60Hz; 1.9A
<ul style="list-style-type: none">• Internal Slot<ul style="list-style-type: none">• SO-DIMM DDR5 4800MHz Slot*2• M.2 2280 PCIe4.0x4 4TB MAX	<ul style="list-style-type: none">• Operating Environment 0°C-40°C, Humidity 30%-90%
<ul style="list-style-type: none">• Interface USB-C 10Gbps*1 USB3.2 10Gbps*3 USB2.0 480Mbps*1 HDMI (Max 4K 60Hz)*2 LAN (1000M)*2 3.5mm Audio Jack*1	<ul style="list-style-type: none">• Storage Environment -20°C-60°C, Humidity 10%-90%• Accessories HDMI 100cm AC Cable 150cm User Manual• Additional Functions Auto Power On, WOL

Image: The Beelink EQR Mini PC connected to power, highlighting its built-in power supply for reduced cable clutter.

4.2 Initial Power On

After connecting all necessary peripherals and power, press the Power Button on the front panel. The power indicator light will illuminate, and the system will begin to boot up. Follow any on-screen instructions for initial operating system setup.

5. OPERATING INSTRUCTIONS

5.1 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).

5.2 Display Configuration

The Beelink EQR supports connecting up to two 4K displays simultaneously via its dual HDMI ports. This allows for an extended desktop experience, enhancing productivity for tasks like video editing, design, or multi-tasking.



Image: The Beelink EQR Mini PC connected to two 4K monitors, demonstrating its dual display capability for various applications.

5.3 Network Connectivity

- **Wi-Fi 6:** Connect to wireless networks for high-speed internet access. Configure Wi-Fi settings through your operating system.

- **Bluetooth 5.2:** Pair with Bluetooth-enabled devices such as keyboards, mice, headphones, or speakers.
- **Dual Gigabit LAN:** For stable and fast wired network connections. The dual ports allow for network separation or redundancy.

Dual Gigabit Ethernet Jacks

The separation of internal and external networks enhances data security

1000M



Image: Close-up of the Beelink EQR Mini PC's dual Gigabit Ethernet ports with cables connected, illustrating wired network capability.

5.4 Storage Expansion

The Mini PC comes with a 500GB PCIe 4.0 NVMe SSD and features dual M.2 slots, allowing for storage expansion up to 8TB total capacity. Refer to the detailed specifications for compatible M.2 SSD types and sizes if you plan to upgrade.

6. PERFORMANCE FEATURES

6.1 Processor

Equipped with the AMD Ryzen 9 6900HX processor (8 Cores/16 Threads, up to 4.9GHz), the Beelink EQR Mini PC delivers robust performance for demanding applications, multitasking, and everyday computing tasks.

AMD Ryzen 9 6900HX

4.9^{GHz}
4.9GHz Max Turbo

16^{MB}
Cache

16
Threads

8
Cores



Image: Detailed specifications of the AMD Ryzen 9 6900HX processor, including clock speed, cache, threads, and cores.

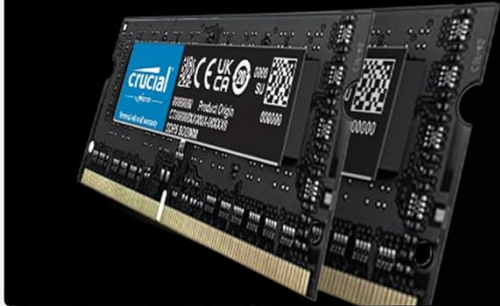
6.2 Memory and Storage

The Mini PC features 32GB of dual-channel DDR5 4800MHz RAM (expandable to 64GB) and a 500GB PCIe 4.0x4 NVMe SSD. This configuration ensures fast boot times, quick application loading, and efficient handling of large files.

32GB (16G*2)

DDR5 4800MHz

64GB Dual SO-DIMM Memory Slots, MAX 64GB



WiFi 6



Bluetooth 5.2



500GB/1TB Single

M.2 PCIe 4.0 X4

Dual SSD Storage, MAX 8TB



Image: Visual representation of the 32GB DDR5 4800MHz RAM and 500GB PCIe 4.0x4 NVMe SSD components within the Mini PC.

6.3 Graphics

Integrated AMD Radeon 680M graphics provide capable visual performance, supporting 4K displays and suitable for various multimedia tasks and light gaming.

7. MAINTENANCE

7.1 Cooling System

The Beelink EQR Mini PC incorporates an advanced MSC2.0 Cooling System, featuring a VC vapor chamber, upgraded air ducts, and a low-speed silent fan. This system efficiently dissipates heat while maintaining quiet operation (under 32dB).

Rich Interfaces

Wide range of interfaces meet all kinds of needs.

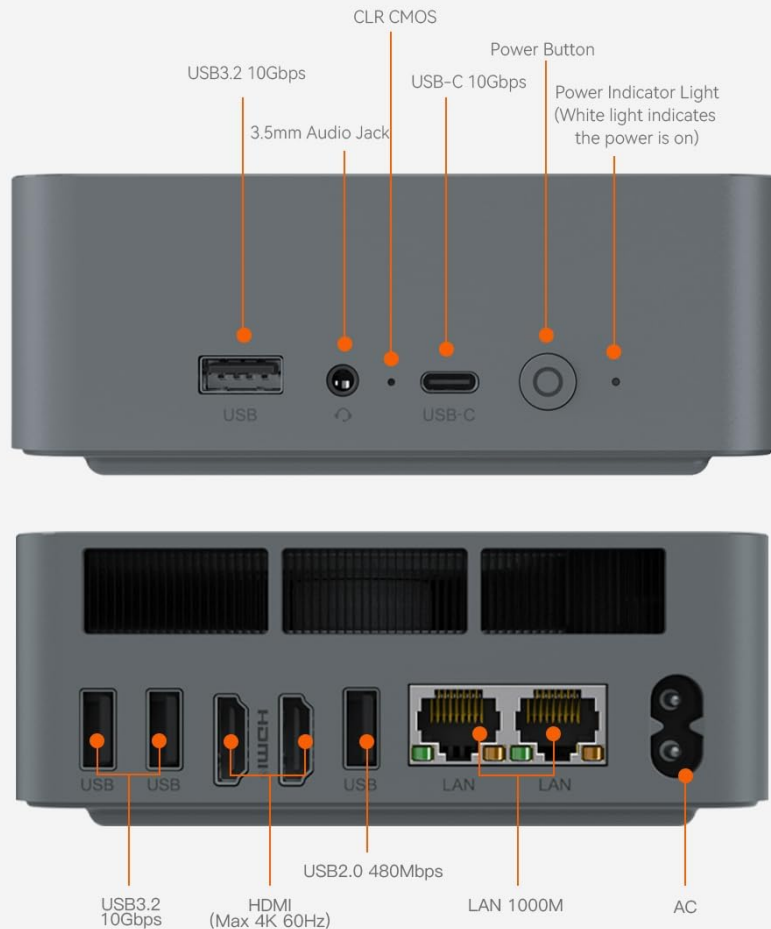


Image: Diagram illustrating the MSC2.0 Cooling System components and the dust-proof design of the Beelink EQR Mini PC.

7.2 Cleaning

To ensure optimal performance and longevity, regularly clean the exterior of the Mini PC. Use a soft, dry cloth to wipe away dust. For vents, use compressed air to gently remove accumulated dust. Ensure the device is powered off and unplugged before cleaning.

8. TROUBLESHOOTING

If you encounter issues with your Beelink EQR Mini PC, refer to the following common troubleshooting steps:

- **No Power:**

- Ensure the AC power cable is securely connected to both the Mini PC and a working power outlet.
- Check if the power indicator light is on. If not, try a different power outlet.

- **No Display:**

- Verify that the HDMI cables are firmly connected to both the Mini PC and the monitor(s).

- Ensure your monitor is set to the correct input source (e.g., HDMI 1, HDMI 2).
- Test with a different HDMI cable or monitor if possible.

- **No Internet Connection:**

- **Wired:** Check if the Ethernet cable is properly connected and if the LAN indicator lights on the Mini PC are active. Verify your router/modem is working.
- **Wireless:** Ensure Wi-Fi is enabled in the operating system and you are connected to the correct network with the correct password.

- **System Slowdown:**

- Close unnecessary applications running in the background.
- Check for available operating system updates.
- Ensure adequate ventilation around the Mini PC to prevent overheating.

- **Peripheral Not Detected:**

- Try connecting the peripheral to a different USB port.
- Ensure the peripheral's drivers are installed and up to date.

If problems persist, consult the official Beelink support resources or contact customer service.

9. SPECIFICATIONS

Detailed technical specifications for the Beelink EQR Mini PC:

Highlights

Super Quiet | Built-in PSU | Dustproof Design
MSC2.0 Cooling System | Dual Gigabit Ethernet Jacks

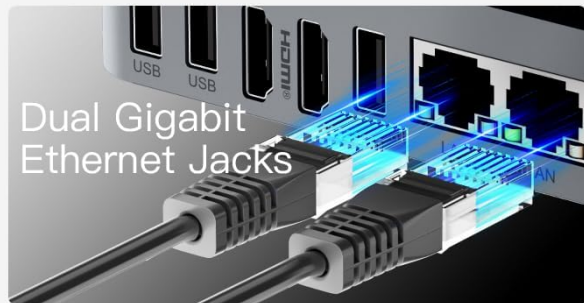
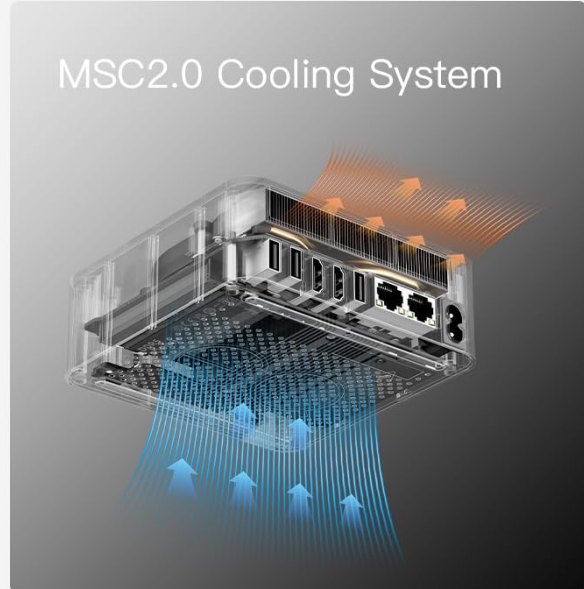


Image: A comprehensive list of the Beelink EQR Mini PC's product specifications.

Feature	Specification
Brand	Beelink
Model Number	EQR
CPU Model	AMD Ryzen 9 6900HX (8C/16T, 3.3-4.9GHz)
Graphics Coprocessor	AMD Radeon 680M Graphics (12core 2400 MHz)
RAM Memory Installed	32 GB DDR5 4800MHz (2x16GB, expandable to 64GB)
Memory Storage Capacity	500 GB PCIe 4.0x4 NVMe SSD (Dual M.2 slots, up to 8TB total)
Operating System	OS (Pre-installed, specific version may vary)
Video Output Interface	2 x HDMI (4K@60Hz)
Connectivity Technology	Wi-Fi 6 (Intel AX200), Bluetooth 5.2, Dual Gigabit LAN

USB Ports	1 x USB-C (10Gbps), 3 x USB 3.2 (10Gbps), 1 x USB 2.0 (480Mbps)
Audio Jack	1 x 3.5mm Audio Jack
Cooling Method	MSC2.0 Cooling System (VC vapor chamber, silent fan)
Power Consumption	45 Watts (Built-in 85W PSU)
Dimensions	126x126x45.5mm (Without Rubber Feet)
Operating Environment	0°C-40°C, Humidity 30%-90%
Storage Environment	-20°C-60°C, Humidity 10%-90%

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The Beelink EQR Mini PC typically comes with a 1-year limited warranty from the date of purchase. This warranty covers manufacturing defects and hardware malfunctions under normal use. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation included with your product or visit the official Beelink website.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Beelink customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your product model (EQR) and purchase details ready.