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› Beelink SER9 AI Mini PC User Manual

Beelink SER9 32G/1T/HX370

Beelink SER9 AI Mini PC User Manual

Model: SER9 32G/1T/HX370

PRODUCT OVERVIEW

The Beelink SER9 AI Mini PC is a compact and powerful computing solution designed for a wide range of applications, from home entertainment and office tasks to light gaming and AI computing. It features an AMD Ryzen AI 9 HX 370 processor, high-capacity LPDDR5X RAM, and fast NVMe PCIe 4.0 SSD storage, ensuring stable and efficient performance. This mini PC supports multiple displays and offers a comprehensive set of interfaces for versatile connectivity.



Figure 1: Beelink SER9 AI Mini PC, showcasing its compact design and front ports.

PACKAGE CONTENTS

Upon opening the package, verify that all items are present and in good condition:

- 1 x Beelink SER9 AI Mini PC
- 1 x HDMI Cable
- 1 x Power Adapter
- 1 x User Manual (this document)

SETUP GUIDE

1. Connecting Your Mini PC

1. **Connect to Display:** Use the provided HDMI cable to connect the Mini PC to your monitor or TV. The device also supports DisplayPort (DP) and USB-C (DP1.4) for video output.

Wide Range of Interfaces

Rich interfaces meet all kinds of needs.

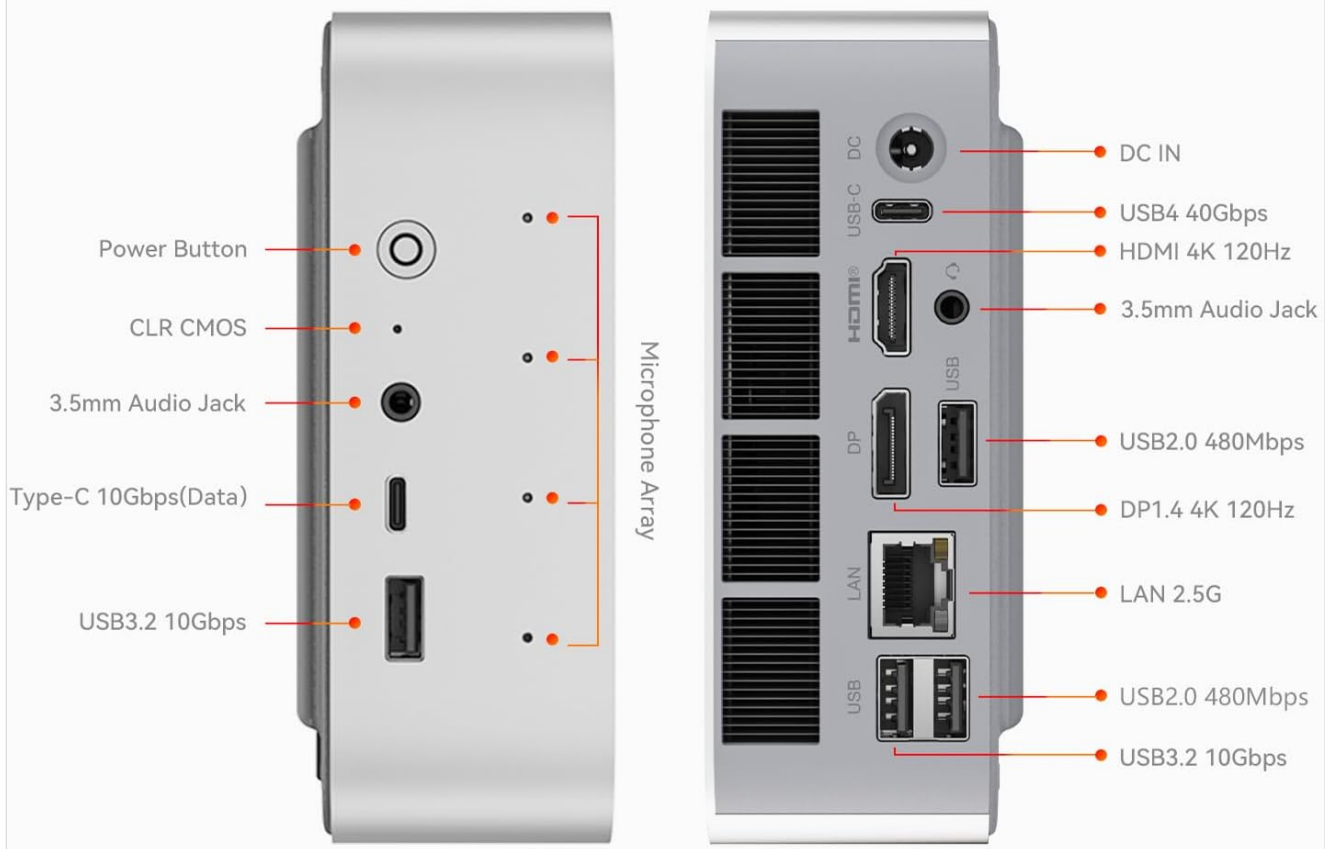


Figure 2: Detailed view of the Beelink SER9's front and rear interfaces, including display ports.

2. **Connect Peripherals:** Plug in your keyboard and mouse to the available USB ports (USB 3.2 or USB 2.0).
3. **Connect Power:** Insert the power adapter into the DC Jack port on the Mini PC and then plug it into a power outlet.
4. **Network Connection (Optional):** For a wired connection, connect an Ethernet cable to the RJ45 2.5G port. For wireless, the device supports WiFi 6.

2. First Boot and Initial Setup

Press the power button located on the front of the Mini PC. The power LED will illuminate. Follow the on-screen instructions to complete the initial Windows 11 Pro setup, including language, region, network, and user account creation.

OPERATING INSTRUCTIONS

Power Management

- **Power On:** Press the power button once.
- **Shut Down:** From the operating system, select "Shut down".
- **Restart:** From the operating system, select "Restart".
- **Force Shut Down:** If the system is unresponsive, press and hold the power button for approximately 5-7 seconds until the device powers off.

Connectivity and Interfaces

The Beelink SER9 offers a wide array of ports for various connectivity needs:

- **USB Ports:** 2 x USB 3.2 (10Gbps), 2 x USB 2.0 (480Mbps).
- **USB-C Ports:** 1 x Type-C (USB4 40Gbps/TBT3/PD/DP1.4), 1 x Type-C (USB3.2 10Gbps).
- **Display Outputs:** 1 x HDMI, 1 x DisplayPort (DP), 1 x USB-C (DP1.4). Supports triple screen display up to 4K 120Hz.
- **Network:** 1 x RJ45 2.5G Ethernet port, built-in WiFi 6.
- **Audio:** 2 x Audio Jack (HP&MIC) port, built-in dual-speakers.
- **Bluetooth:** Bluetooth 5.2 for wireless peripheral connections.

AI Voice Interaction

The Built-in microphone is powered by an AI chip that supports smart audio pickup, which enables it to effectively separate voice command from background noise. 360° barrier-free voice recognition within 5 meters. The picked up audio is processed by an AI chip, making recorded vocals sound more natural and authentic.



*AI voice interaction requires the use of relevant software

Figure 3: The Mini PC features built-in microphones for AI voice interaction, enabling clear voice command recognition.

Built-in Dual-Speakers

The built-in dual-speakers can offer sound with high volume, rich details, and powerful impact. Without the need for external audio equipment, the SER9 can bring you an immersive audio experience all by itself.



Figure 4: The integrated dual-speakers provide high-volume, detailed audio without external equipment.

Performance Features

The Beelink SER9 is equipped with advanced components for robust performance:

- **Processor:** AMD Ryzen AI 9 HX 370 (12C/24T, up to 5.1GHz) with L2+L3 36MB smart cache.
- **Graphics:** AMD Radeon 890M (16 cores, 2900 MHz) for 4K video playback and light gaming.
- **Memory:** 32GB (8GB x4) LPDDR5X 7500MHz high-frequency memory.
- **Storage:** 1TB NVMe PCIe 4.0 x4 SSD, with dual M.2 PCIe 4.0 x4 SSD slots supporting up to 8TB total internal storage.



SER9

AMD AI 9 HX 370 Processor

Almighty Beast Quiet and Powerful

AI

NPU with 50 AI TOPS
Built-in MIC AI Chip
Built-in Dual-Speakers

Gaming

AMD Radeon™ 890M
16CU/2900MHz/RDNA 3.5
LPDDR5X 7500MHz

Figure 5: Visual representation of the Beelink SER9's core capabilities, highlighting AI and gaming performance with the AMD AI 9 HX 370 processor.

3rd Generation AMD AI PC Processor

AMD Ryzen™ **AI 9 HX 370** Processor

Fully upgraded CPU, GPU, and NPU architecture significantly boosts the SER9's overall performance, delivering a faster, smarter, and more secure AI PC experience

80TOPS

Total NPU+CPU+GPU AI Performance

12C24T

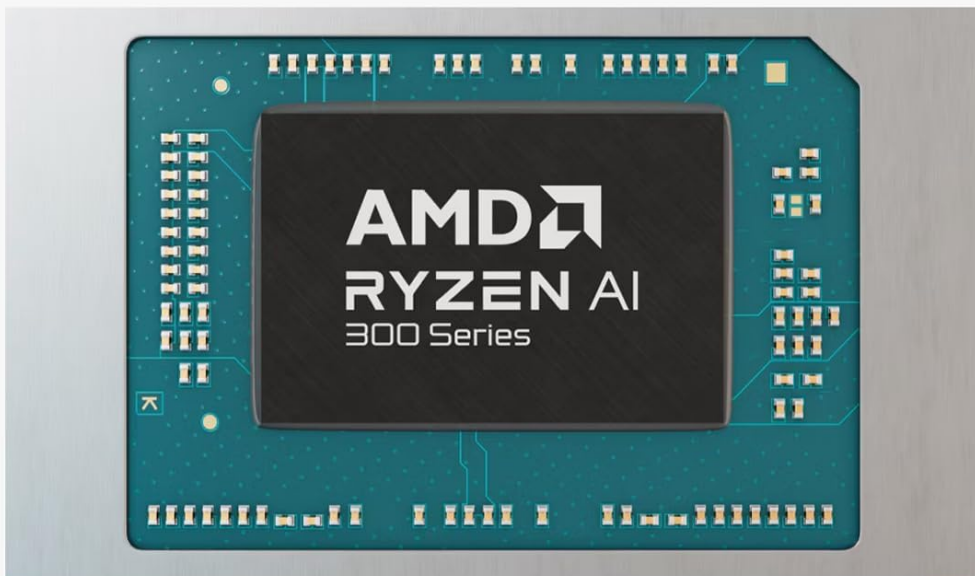
CPU Core and Thread Count

Zen5

Latest CPU Architecture

5.1GHz

Max Turbo Frequency

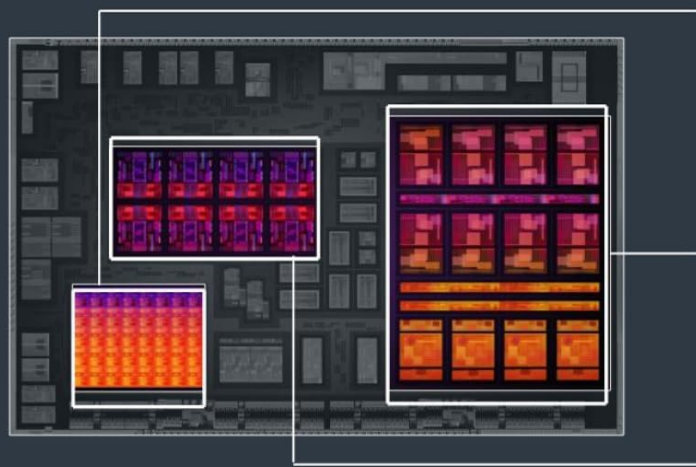


*Maximum TDP in performance mode is 65W, default TDP in balanced mode is 54W. For mode adjustments, please contact our customer support for guidance.

Figure 6: Detailed view of the 3rd Generation AMD AI 9 HX 370 Processor, showcasing its CPU, GPU, and NPU architecture for enhanced AI performance.

AMD Radeon™ 890M

Graphics Cores: 16 CU / Graphics Frequency: 2900MHz



AMD
XDNA 2

Latest NPU
50 TOPS



Latest CPU
12 Cores 24Threads

AMD
RDNA 3.5

Latest GPU
16 CU/2900MHz

Figure 7: Illustration of the AMD Radeon 890M graphics, detailing its 16 compute units and 2900MHz frequency for visual processing.

LPDDR5X 7500MHz High Frequency Memory

Featuring RAM particles from world-renowned brand Micron the SER9 can deliver you the smoothest experience in AI computing, gaming and multimedia entertainment.

32GB(8GB*4)

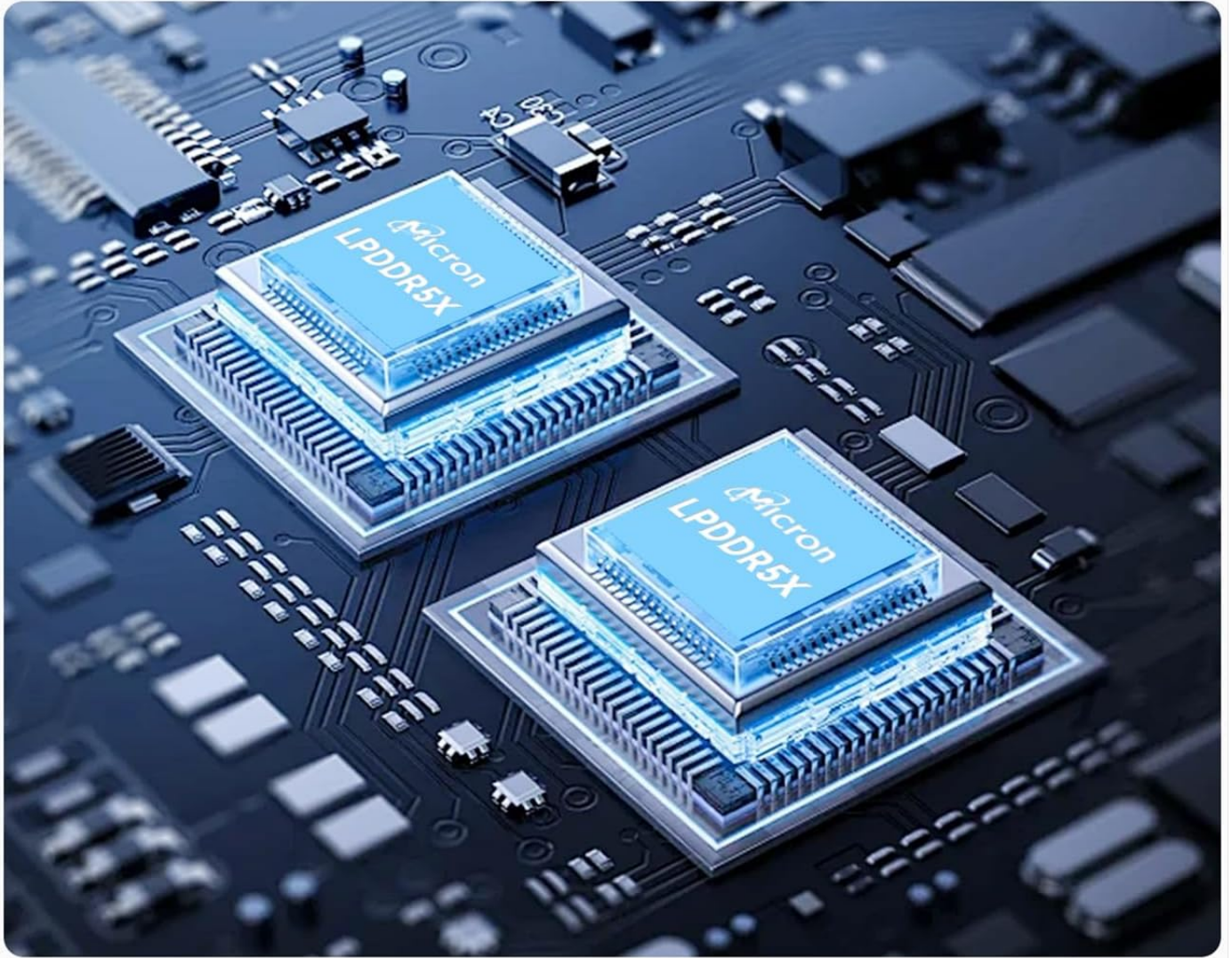


Figure 8: Visual representation of the LPDDR5X 7500MHz high-frequency memory, crucial for AI computing and multimedia tasks.

Dual PCIe 4.0 High-Speed Storage Leading Performance

The dual SSD slots support up to 8TB fast internal storage, the retail unit comes with a single 1TB SSD from Crucial!

1TB(single)

PCIe 4.0 x4 Slot
(For the system drive)

PCIe 4.0 x4 Slot
(For the storage drive)

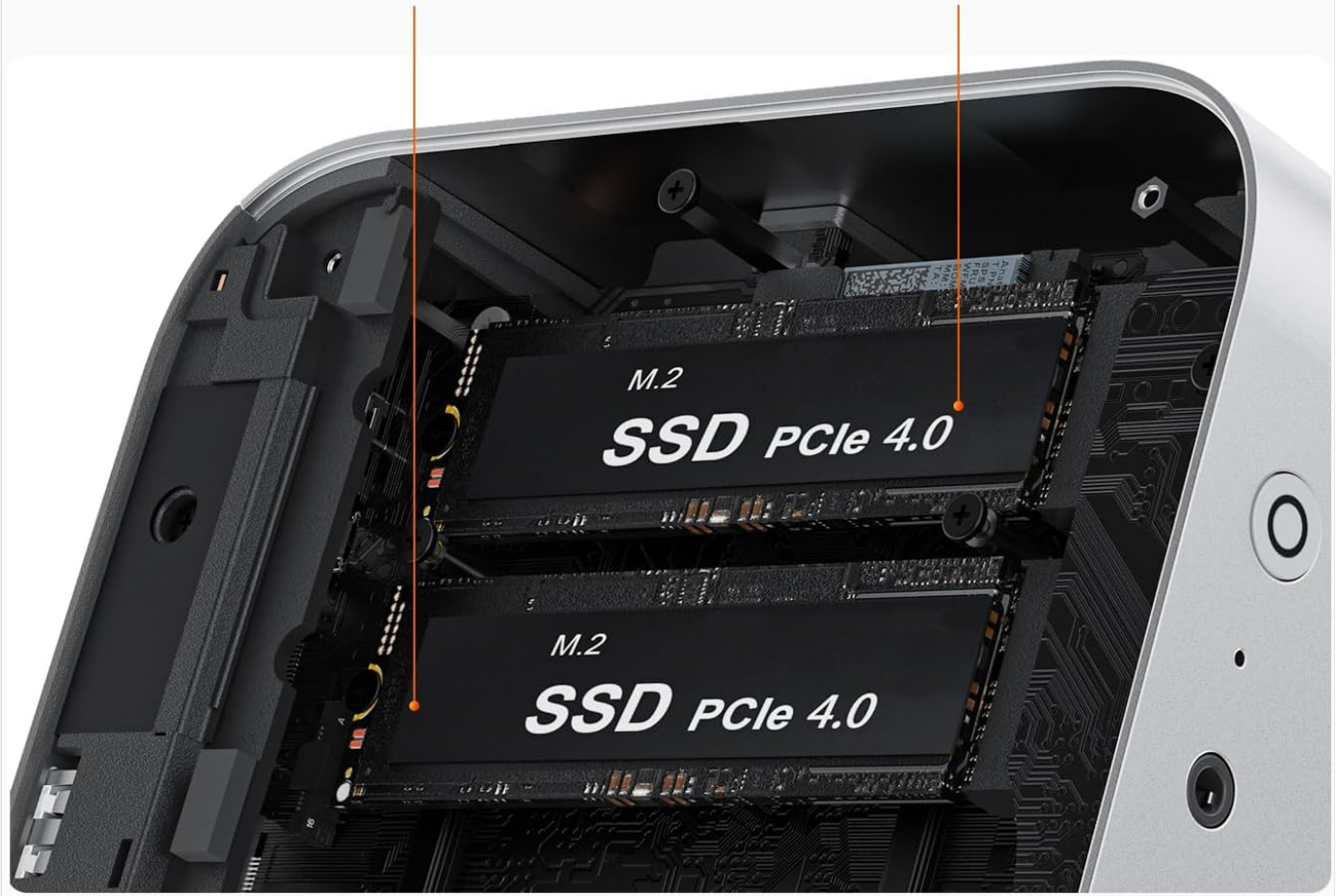


Figure 9: Diagram showing the dual M.2 PCIe 4.0 x4 SSD slots for high-speed storage expansion, supporting up to 8TB.

MAINTENANCE

Cleaning

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

Storage Expansion

The Beelink SER9 supports additional storage. It features dual M.2 PCIe 4.0 x4 SSD slots, allowing for easy expansion up to 8TB. Refer to the product's internal layout for slot locations when installing additional drives.

Software Updates

Regularly check for and install operating system updates (Windows 11 Pro) and driver updates from the Beelink official website to maintain system stability and performance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power	Power adapter not connected; Power outlet issue.	Ensure power adapter is securely connected to the Mini PC and a working power outlet. Try a different outlet.
No Display Output	Incorrect display cable connection; Monitor input not selected.	Check HDMI/DP/USB-C cable connections. Ensure monitor is set to the correct input source. Try a different display cable or monitor.
No Network Connection	Ethernet cable disconnected; WiFi disabled; Router issue.	Verify Ethernet cable connection. Check WiFi settings in OS. Restart router.
System Unresponsive	Software crash; Overload.	Press and hold the power button for 5-7 seconds to force shut down, then restart. If issues persist, consider using the CLR CMOS button (refer to interface diagram for location) or reinstalling the operating system.

TECHNICAL SPECIFICATIONS

Feature	Specification
Processor	AMD Ryzen AI 9 HX 370 (12 Cores, 24 Threads, up to 5.1 GHz)
Graphics Coprocessor	AMD Radeon 890M (16 cores, 2900MHz)
RAM	32GB LPDDR5X 7500MHz
Hard Drive	1 TB M.2 PCIe4.0 X 4 SSD (Dual M.2 slots, Max 8TB)
Operating System	Windows 11 Pro
Wireless Connectivity	WiFi 6, Bluetooth 5.2
USB Ports	2 x USB 3.2 (10Gbps), 2 x USB 2.0 (480Mbps)
USB-C Ports	1 x Type-C (USB4 40Gbps/TBT3/PD/DP1.4), 1 x Type-C (USB3.2 10Gbps)
Video Output	1 x HDMI, 1 x DP, 1 x USB-C (DP1.4) - Supports Triple 4K 120Hz Display
Ethernet	1 x RJ45 2.5G Port
Audio	2 x Audio Jack (HP&MIC), Built-in Dual Speakers

Feature	Specification
Dimensions	6.65 x 6.61 x 3.98 inches
Weight	3.21 pounds

WARRANTY AND SUPPORT

Beelink provides a 1-year factory professional support for this product. For any inquiries or assistance, please utilize the 7*24 hours online customer service available through official Beelink support channels. All products have obtained FCC, ROHS, and CE certification, ensuring compliance with quality and safety standards.

[Visit the Beelink Official Store for support and more information.](#)

