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Beelink MINIS

Beelink Mini S12 Pro Mini PC User Manual

Model: MINIS

1. INTRODUCTION

The Beelink Mini S12 Pro is a compact and powerful mini PC designed for various applications, from office productivity and home entertainment to light gaming and network-attached storage (NAS). Featuring the Intel 12th Gen N100 processor, ample memory, and high-speed storage, it offers efficient performance in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Mini S12 Pro.



Image: Front and rear view of the Beelink Mini S12 Pro Mini PC, highlighting its compact design and various ports.

2. WHAT'S IN THE BOX

Upon unboxing your Beelink Mini S12 Pro, please ensure all the following items are present:

- Mini PC
- User manual
- HDMI Cable (100cm)
- Power Supply

3. PRODUCT FEATURES

The Beelink Mini S12 Pro is equipped with advanced components to deliver a smooth and responsive user experience:

- **Processor:** Upgraded Intel Alder Lake-N100 with 4 CPU cores, 4 threads, and a max turbo clock of 3.4GHz. It features Intel UHD Graphics 24EUs and 6MB L3 smart cache, offering improved performance over previous generations.
- **Memory & Storage:** Features a single SODIMM slot supporting up to 16GB DDR4-3200MHz RAM. It includes an M.2 2280 slot for SATA3 SSD storage (up to 2TB) and a SATA3 interface for a 2.5-inch SATA HDD/SSD

(up to 2TB).

- **Display Support:** Dual HDMI 2.0 ports support 4K@60Hz displays, enabling efficient multitasking and high-resolution media consumption.
- **Connectivity:** Equipped with WiFi 6 (600Mbps) and Bluetooth 5.2 for fast wireless data transfer. It also includes a 1000Mbps LAN Port for stable wired network connections.
- **Ports:** 4 x USB3.2 Type-A (10Gbps), 2 x HDMI 2.0, 1 x 1000Mbps LAN Port, 1 x 3.5mm audio jack, and 1 x DC power input.
- **Cooling System:** Features a large silent CPU fan, a copper heat sink, and a dedicated SSD cooling shield for efficient heat dissipation and stable operation.

4 Cores
Intel ALD_N N100

4 Threads
6MB Smart Cache

3.4 GHz
Max Turbo Frequency

24EUs
Intel® UHD Graphics

12TH GENERATION LOW-POWER OFFICE MINI PC

Size: 4.52*4.01*1.54 in

MINI S12 Pro



750MHz
Graphics Max
Dynamic Frequency

 **WiFi 6(802.11ax)**
Bluetooth5.2 /LAN (1000M)

 **DDR4 3200MHz**
Single Channel 8/16GB

 **Dual SSD card slots**
Optional 256/500GB/1TB


 **Cooling System**
1. Silent fan
2. Heat pipe/Heat sink
3. SSD Cooling

Image: Infographic detailing the key features of the Beelink Mini S12 Pro, including CPU, graphics, memory, storage, and cooling.

Rich interface design

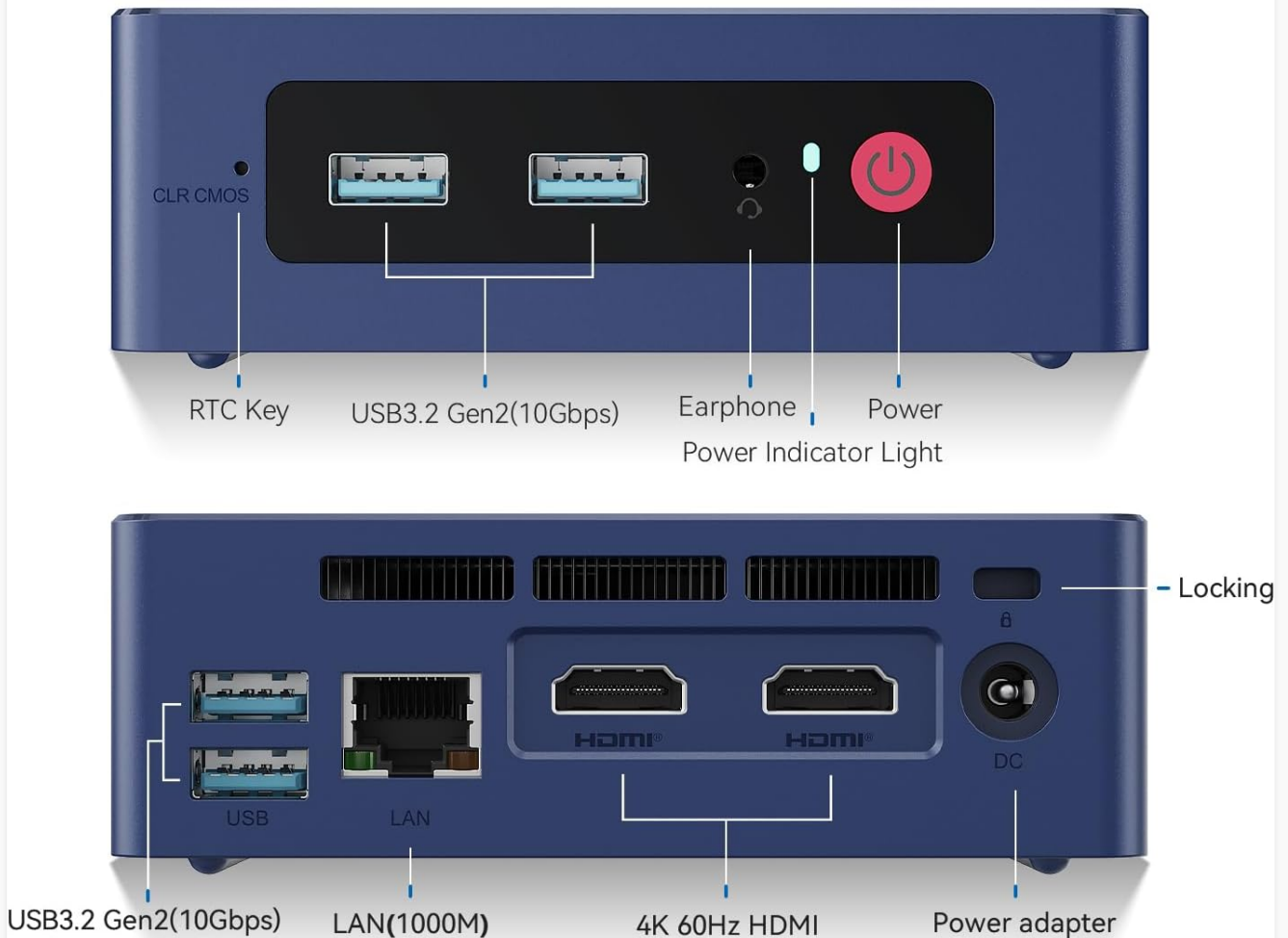


Image: Detailed view of the front and rear ports of the Mini S12 Pro, including USB, HDMI, LAN, and power input.

4. SETUP GUIDE

Follow these steps to set up your Beelink Mini S12 Pro Mini PC:

1. **Connect Peripherals:** Connect your keyboard, mouse, and monitor(s) to the available USB and HDMI ports. The Mini S12 Pro supports dual 4K displays via its two HDMI 2.0 ports.
2. **Connect to Network:** For a wired connection, plug an Ethernet cable into the 1000Mbps LAN port. For wireless, ensure your WiFi network is available during the initial setup.
3. **Connect Power:** Plug the power adapter into the DC power input port on the Mini PC, then connect it to a power outlet.
4. **Power On:** Press the power button on the front of the Mini PC. 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, if pre-installed). This typically involves setting up user accounts, network connections, and basic preferences.

Your browser does not support the video tag.

Video: An official overview of the Beelink Mini S12 Pro, demonstrating its features and setup process.

5. OPERATING INSTRUCTIONS

Once set up, your Mini S12 Pro is ready for use. It is optimized for a variety of tasks:

- **Office Productivity:** Seamlessly run office applications like Microsoft Word, Excel, and PowerPoint.
- **Multimedia:** Enjoy 4K video playback and stream content with ease. The dual HDMI ports allow for an extended desktop experience.
- **Light Gaming:** Capable of handling less demanding games thanks to its Intel UHD Graphics.
- **Network Attached Storage (NAS):** Can be configured as a low-power NAS server for centralized data storage.
- **Soft Router:** Its efficient CPU and network capabilities make it suitable for use as a soft router.



Energy saving

Energy saving and low power consumption, equivalent to the power of an incandescent lamp.

WiFi 6

600Mbps

WiFi6 enables fast data transfer to meet your daily use needs.



WAKE ON LAN AUTO POWER ON

Setup your computer to auto power on (For more details, log on <http://bee-link.com/>)



LAN 1000Mbps

The maximum download speed can reach 128MB/s with 1000M broadband.



Dual display support

Supporting two different screen displays, HDMI supports 4K display resolution of 3840*2160; 4 times more than Full HD (FHD.1920*1080); 9 times more than HD (HD.1280*720).

Image: Features such as energy saving, WiFi 6, 1000Mbps LAN, and dual display support, illustrating the Mini PC's versatility.

6. MAINTENANCE AND UPGRADES

To ensure optimal performance and longevity of your Mini S12 Pro, consider the following:

Memory (RAM) Upgrade:

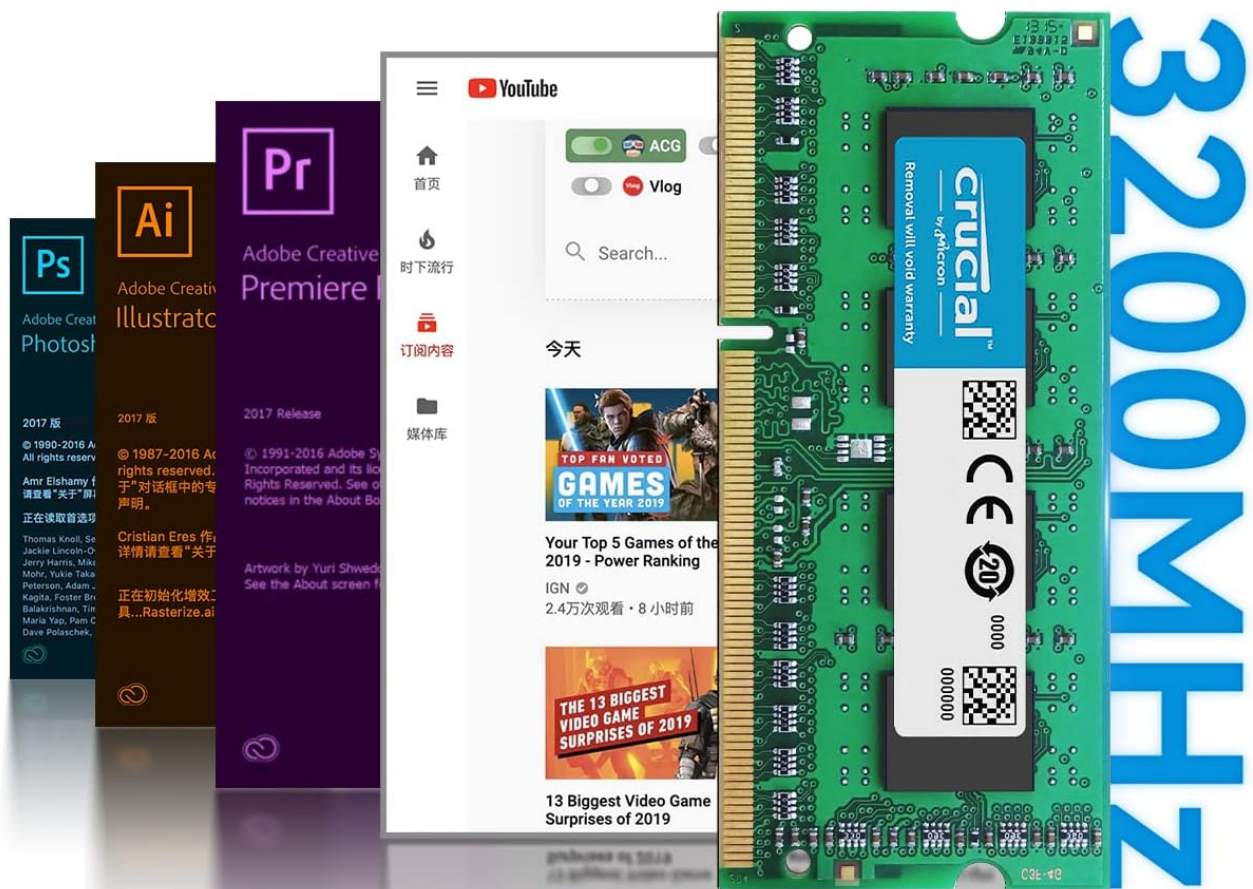
The Mini S12 Pro features a single SODIMM slot. You can upgrade the DDR4 RAM up to 16GB for enhanced multitasking capabilities. Refer to the product specifications for compatible memory types and speeds.

SO-DIMM DDR4

High quality memory

Stable operation

Single-channel support up to 16G(dependent on memory type), optional single-channel 16G memory.



*Official speeds apply

Image: A close-up of the SO-DIMM DDR4 memory module, indicating high-quality and stable operation.

Storage Expansion:

The Mini PC supports M.2 2280 SATA3 SSDs up to 2TB and also has a SATA3 interface for a 2.5-inch HDD/SSD up to 2TB. This allows for significant storage expansion to meet your needs.

Dual SSD High-speed Storage

Supports M.2 2280 NVMe/SATA3 SSD, Configurable to 4TB storage.

Mini S12 Pro ships with a SATA3 SSD

Optional:256/500GB/1TB

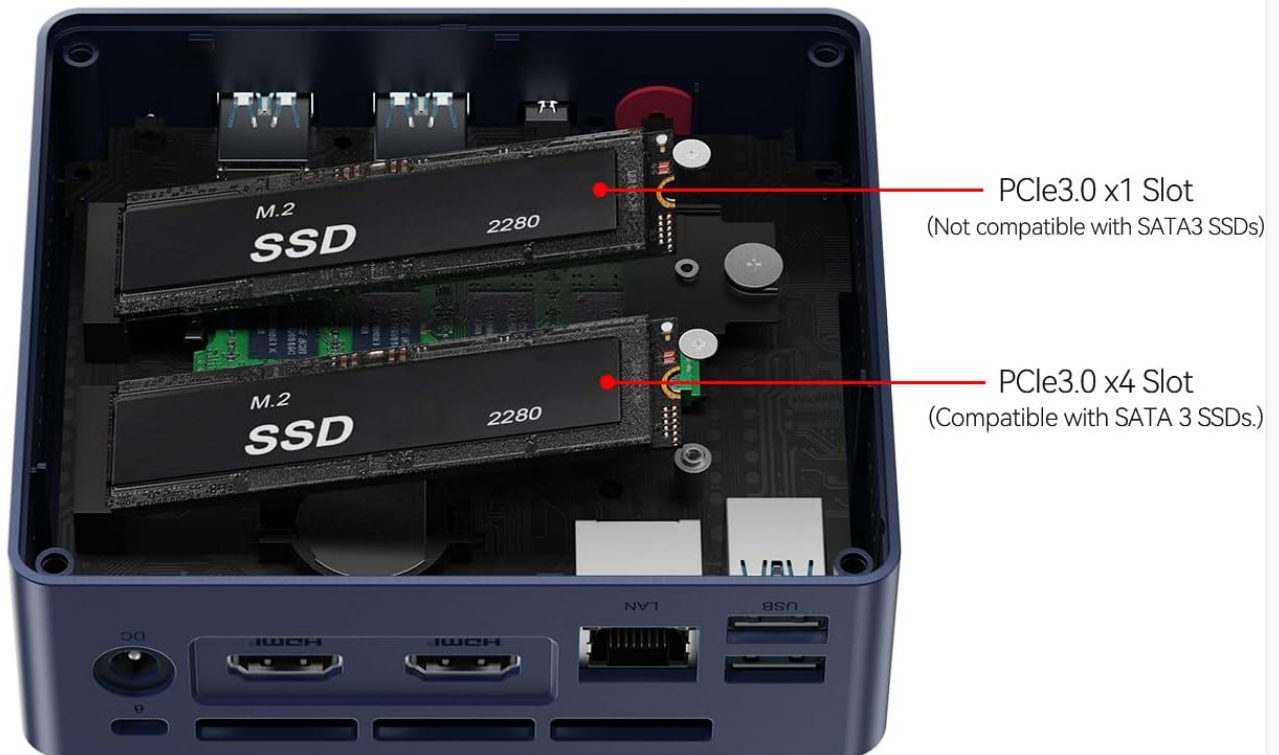


Image: Diagram showing the dual SSD slots for high-speed storage expansion within the Mini S12 Pro.

Cooling System:

The integrated silent CPU fan and copper heat sink are designed to maintain optimal operating temperatures. Ensure proper airflow around the device and keep vents clear of obstructions to prevent overheating.

CPU silent fan and heat sink

The ultra-quiet fan and heatsink provide excellent cooling for the CPU processor.

Adobe Illustrator **55-67°C**

CorelDRAW **52-65°C**

Video **53-65°C**

Adobe Photoshop **57-69°C**

Adobe Dreamweaver **62-71°C**

Office **52-59°C**

*Different configurations and environments may lead to different temperatures

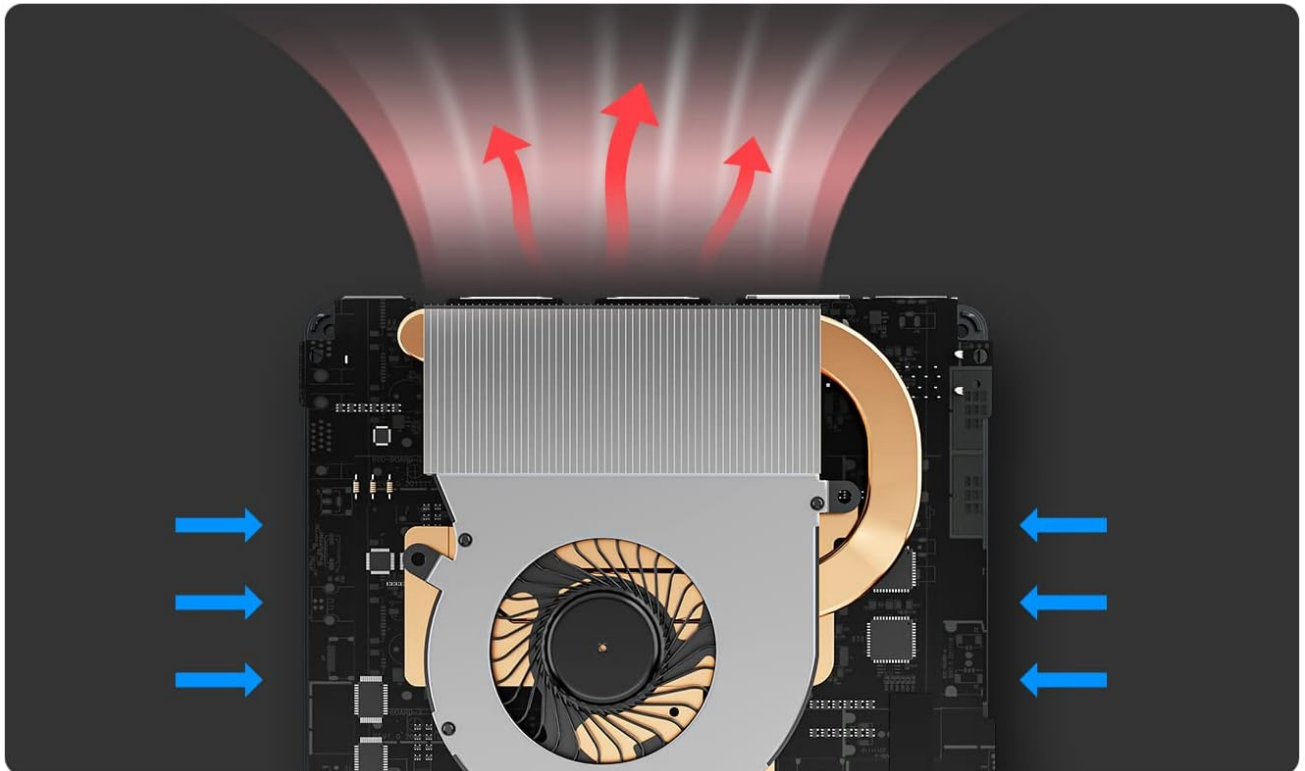


Image: Illustration of the CPU silent fan and heat sink, demonstrating the efficient cooling system of the Mini S12 Pro.

7. TROUBLESHOOTING

If you encounter issues with your Beelink Mini S12 Pro, consider the following common solutions:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Check the power indicator light.
- **No Display:** Verify that the HDMI cables are securely connected to both the Mini PC and the monitor(s). Try a different HDMI port or cable if available. Ensure the monitor is set to the correct input source.
- **Network Connectivity Issues:** For wired connections, check the Ethernet cable and router status. For wireless, ensure WiFi is enabled and you are connected to the correct network with the correct password.
- **Slow Performance:** Close unnecessary applications. Check for background processes that might be consuming resources. Consider upgrading RAM or storage if performance issues persist.
- **System Not Responding:** Press and hold the power button for 5-10 seconds to force a shutdown, then restart the device.
- **BIOS Settings:** The Mini PC supports features like Auto Power On, Wake up On LAN, and PXE. These

functions can be configured in the BIOS settings. Refer to the BIOS menu for specific options.

8. SPECIFICATIONS

Feature	Detail
Product Type	Mini PC (Navy Blue)
Dimensions	4.52 x 4.01 x 1.54 inches (115 x 102 x 39mm)
CPU	Intel Alder Lake-N100 Processor (4C/4T, up to 3.4GHz)
Graphics	Intel UHD Graphics 750MHz (24EUs)
System Disk	M.2 2280 SSD (NVMe/SATA3 SSD Max 2TB)
Internal Slot	M.2 2280 SSD (M.2 PCIe X1 Max 2TB), SO-DIMM DDR4 3200MHz Slot*1
Network	WiFi 6 (802.11ax), Bluetooth 5.2, LAN 1000M
Ports	4 x USB3.2 Gen2 (10Gbps), 2 x HDMI (4K 60Hz), 1 x 3.5mm Phone Jack (Two-in-one), 1 x DC Power Input
Operating System	OS (typically Windows 11 Pro pre-installed)
Working Temperature	0°C–40°C, 90% @40°C Humidity
Storage Temperature	-20°C–60°C, 90% @40°C Humidity
Additional Functions	WOL (Wake On LAN), AUTO POWER ON, PXE, Power-on function set in BIOS

Product Specification

Product Type	Mini PC (Navy Blue)	Network	WiFi 6 (802.11ax) Bluetooth 5.2
Dimension	4.52*4.01*1.54 in(115*102*39mm)	CLR CMOS Button	1
CPU	Intel Alder Lake-N N100 Processor Max Turbo Frequency 3.4GHz (4C/4T) 6 MB Smart Cache	Power Button	1
Graphics	Intel® UHD Graphics 750MHz(24EUs)	Adapter	12V-3A Certification Input: 100-240V AC, 50/60Hz Output: 12V 3A
System Disk	M.2 2280 SSD(NVMe/SATA3 SSD Max 2TB)	Working Temperature	0°C--40°C, 90% @40°C Humidity
Internal Slot	SO-DIMM DDR4 3200MHz Slot*1 M.2 2280 SSD(M.2 PCIe X1 Max 2TB)	Storage Temperature	-20°C--60°C, 90% @40°C Humidity
Interface	5.5*2.5 DC Jack*1 USB3.2 Gen2(10Gbps)*4 LAN 1000M *1 3.5mm Phone Jack(Two-in-one)*1 HDMI(Max 4K 60Hz)*2 Locking*1	Additional function	WOL AUTO POWER ON
		Accessories	Instruction manual*1 Wall-Mounted bracket*1 HDMI cable 100CM*1 Adapter 12V/3A*1 One pack of screws

Image: A detailed table summarizing the technical specifications of the Beelink Mini S12 Pro.

9. WARRANTY AND SUPPORT

Beelink provides comprehensive support for your Mini S12 Pro:

- **Warranty:** All Beelink Mini PCs come with a one-year warranty.
- **Certifications:** Products have passed CE, EMC, FCC, and RoHS certifications.
- **Customer Support:** 24-hour after-sale team support is available for any product-related questions or pre-purchase consultations.

For support, please refer to the contact information provided with your purchase or visit the official Beelink support channels.

