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› Beelink SER8 Mini PC User Manual

Beelink SER8

Beelink SER8 Mini PC User Manual

Model: SER8 (AMD Ryzen 7 8745HS, 32GB DDR5, 1TB PCIe4.0 SSD)

Brand: Beelink

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Beelink SER8 Mini PC. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.



Figure 1.1: Beelink SER8 Mini PC. This image displays the compact silver chassis of the Mini PC, with one unit showing its front panel (power button, audio jack, USB-C, USB-A) and another unit rotated to show its rear ports (DC IN, USB-C, HDMI, USB-A, DisplayPort, LAN).

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- 1 x SER8 8745HS Mini PC
- 1 x HDMI Cable (100CM)
- 1 x Power Adapter
- 1 x User Manual

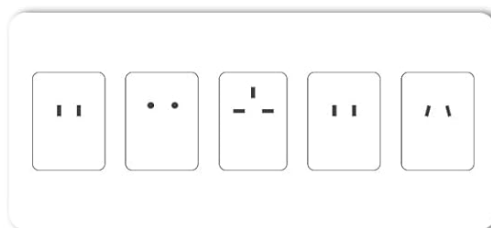
Accessories



1.User Manual



2.HDMI Cable(100CM)



3.Power Adapter
(Optional ☐ US/EU/UK/JP/AU)

Figure 2.1: Package Contents. This image shows the included accessories: a user manual, the SER8 8745HS Mini PC, an HDMI cable, and a power adapter (with optional US/EU/UK/JP/AU plugs).

3. PRODUCT FEATURES AND HIGHLIGHTS

The Beelink SER8 Mini PC is designed for high performance and efficiency, featuring advanced components and a thoughtful design.

3.1. Core Performance

- **Processor:** AMD Ryzen 7 8745HS (8 Cores/16 Threads, up to 4.9GHz, 65W TDP) based on TSMC's 4nm process with Zen4 architecture.
- **Graphics:** AMD Radeon 780M (12 cores, 2700 MHz) with RDNA3 architecture, supporting 4K triple display output.
- **Memory:** 32GB Dual Channel DDR5 RAM (5600MHz), expandable up to 256GB.

- **Storage:** 1TB M.2 PCIe4.0 2280 SSD (dual SSD slots, max 8TB total), offering speeds up to 7000MB/s.

Highlights



MSC2.0 Cooling System

New airflow design ensures consistent stable operation at 65W TDP.



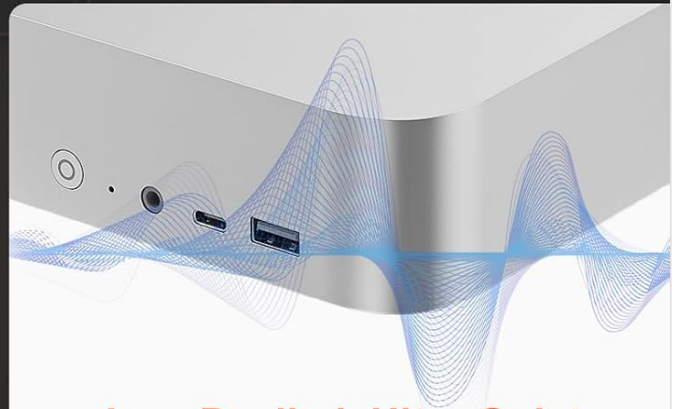
AMD Ryzen 7 8745HS Processor

8 Cores and 16 Threads 4.9 GHz Max



DDR5 5600MHz+PCIe4.0 SSD

Dual-channel DDR5 RAM & Dual PCIe 4.0 SSDs



Low Decibel, Ultra Quiet

With Beelink's new cooling system, fan speed is reduced to ensure near-silent operation.

Figure 3.1: Key Features. This image highlights the MSC2.0 Cooling System, AMD Ryzen 7 8745HS Processor, DDR5 5600MHz RAM and PCIe4.0 SSD, and the low decibel quiet operation of the Beelink SER8 Mini PC.

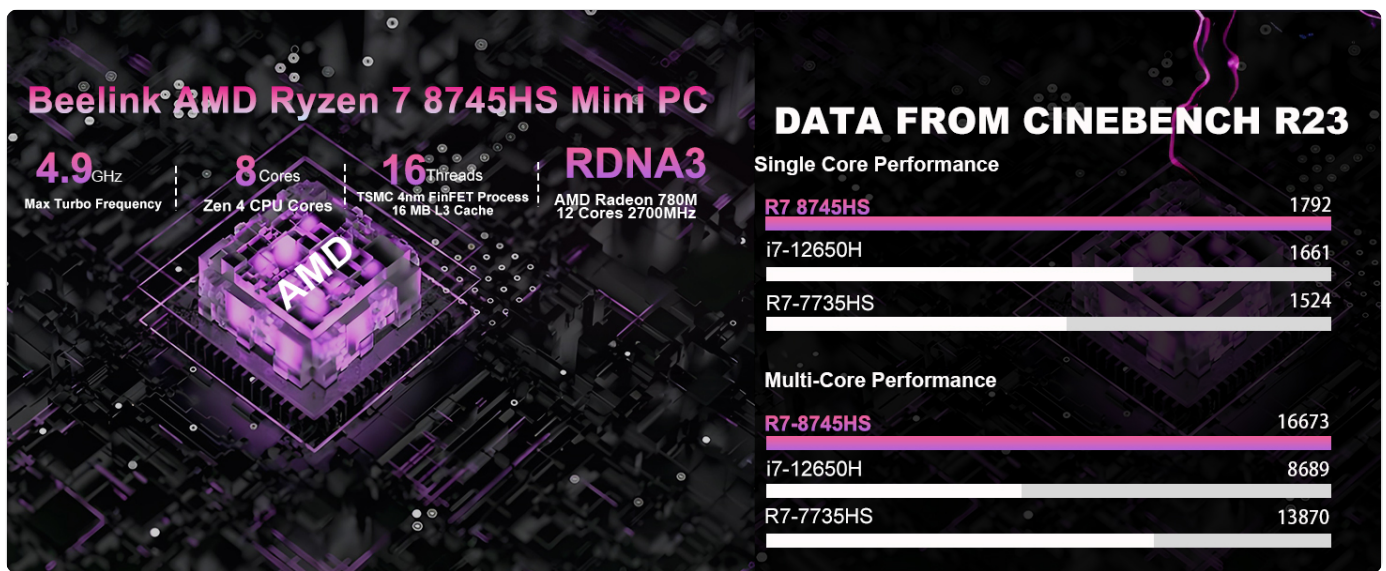


Figure 3.2: Processor Performance. This image illustrates the AMD Ryzen 7 8745HS processor's specifications, including 8 cores, 16 threads, 4nm process, and Zen 4 architecture, alongside Cinebench R23 benchmark results comparing its single-core and multi-core performance against other processors.



Figure 3.3: Graphics Performance. This image demonstrates the AMD Radeon 780M graphics capabilities, highlighting its RDNA3 architecture, 12 cores, and 2.6GHz graphics speed, with example frame rates for popular games such as LOL, CS:GO, DOTA2, and PUBG.



Figure 3.4: Storage and Memory Speed. This image illustrates the lightning-fast storage and memory capabilities of the SER8, supporting

dual-channel DDR5 5600MHz RAM and dual M.2 PCIe4.0 SSDs, with performance comparisons showing significant speed increases over DDR4 and PCIe3.0.

3.2. Connectivity

- **LAN:** 2.5Gbps Ethernet LAN port for high-speed wired connections.
- **Wireless:** WiFi 6 (802.11ax) for fast and stable wireless connectivity.
- **Bluetooth:** Bluetooth 5.2 for efficient connection to multiple wireless devices.
- **USB4:** Full-function USB4 port supporting 100W power transfer and up to 40Gbps data transfer.
- **Display Output:** HDMI 2.1 (4K@120Hz), DisplayPort 1.4 (4K@120Hz), and USB4 for triple monitor support.



Figure 3.5: High-Speed Wireless Connection. This image illustrates the SER8's WiFi 6 (2x2) and Bluetooth 5.2 capabilities, showing significantly faster speeds and improved stability compared to older wireless standards.



Figure 3.6: USB4 Functionality. This image details the built-in USB4 port, emphasizing its capabilities for 100W power delivery, connection to multiple devices (e.g., eGPUs, VR headsets), 4K@120Hz video output, and data transfer speeds up to 40Gbps, which is 10 times faster than USB3.0.

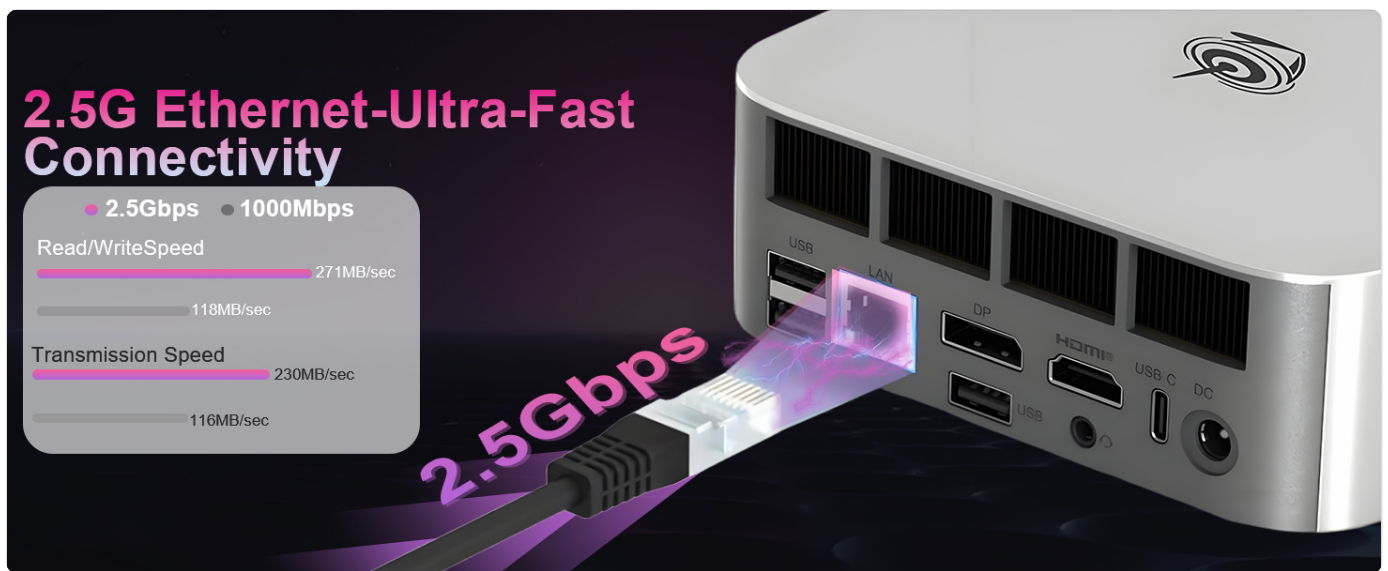


Figure 3.7: 2.5G Ethernet Connectivity. This image illustrates the ultra-fast 2.5Gbps Ethernet connectivity, showing significantly higher read/write and transmission speeds compared to standard 1000Mbps Ethernet.



Figure 3.8: Triple-Display Output. This image demonstrates the Beelink SER8's capability to support triple-display output via HDMI 2.1, DisplayPort 1.4, and a full-featured USB4 port, all supporting 4K 120Hz displays, ideal for various applications including creative design software.

3.3. Design and Cooling

- **Cooling System:** MSC2.0 Design with silent fan and SSD heatsink for efficient heat dissipation, ensuring stable operation at 65W TDP.
- **Noise Level:** Near-silent operation at 32dB.
- **Dustproof Design:** New metal mesh filter at the bottom prevents dust accumulation.

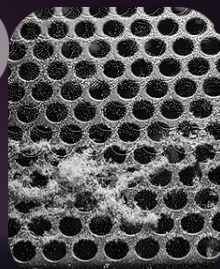
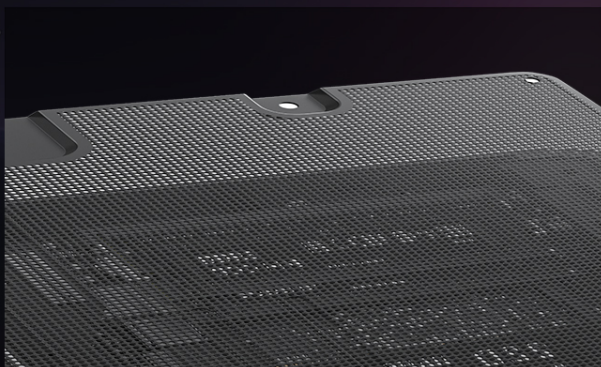
32dB Near-Silent Operation Enjoy Tranquility During the Night



Figure 3.9: Quiet Operation. This image illustrates the low decibel, ultra-quiet operation of the Beelink SER8, showing its running noise at 32dB compared to nighttime ambient noise (29dB), office ambient noise (45dB), and outdoor ambient noise (60dB).

Dustproof Design

The new mesh filter at the bottom keeps dust out of the SER8, avoiding dust accumulation and dust-related issues.



With Dustproof Filter

- Mesh filter keeps the dust out of the SER8
- Issue-free operation

VS



Without Dustproof Filter

- Internal dust accumulation
- Dust-related malfunctions

Figure 3.10: Dustproof Design. This image highlights the new mesh filter at the bottom of the SER8, which keeps dust out, preventing accumulation and related issues, contrasting it with a system without such a filter that would experience internal dust buildup and potential malfunctions.



Figure 3.11: Advanced Cooling System. This image details the New Airflow Design - MSC2.0, showing how air intake from the bottom efficiently dissipates heat, allowing the SER8 to stay cool and stable at 65W TDP. It also illustrates key cooling components such as the vapor chamber, silent fan, and SSD heatsink, along with typical SSD and DDR surface temperatures.

4. SETUP GUIDE

Follow these steps to set up your Beelink SER8 Mini PC:

4.1. Connecting Peripherals

1. **Connect Display:** Use the provided HDMI cable or a DisplayPort cable to connect your monitor(s) to the HDMI 2.1, DisplayPort 1.4, or USB4 ports on the back of the Mini PC.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into the available USB 2.0 or USB 3.2 ports.
3. **Connect Network:** For a wired connection, plug an Ethernet cable into the 2.5Gbps LAN port. For wireless, ensure your WiFi network is available after initial setup.
4. **Connect Audio:** If using external speakers or headphones, connect them to the 3.5mm audio jack on the front or back.

Wide Range of Interfaces

Rich interfaces meet all kinds of needs.

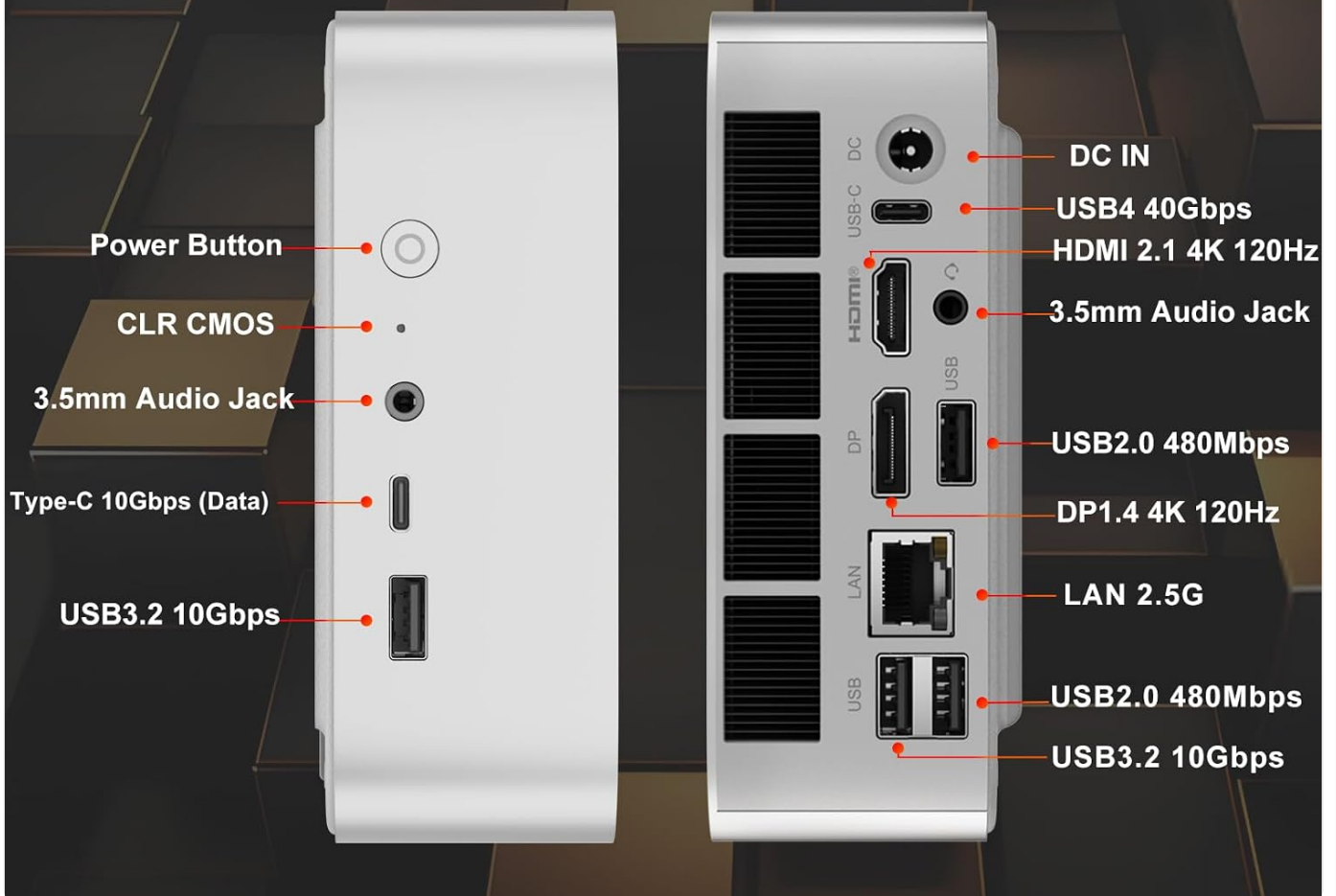


Figure 4.1: Port Layout. This image provides a detailed view of the wide range of interfaces available on the Beelink SER8 Mini PC, including front ports (Power Button, CLR CMOS, 3.5mm Audio Jack, Type-C 10Gbps, USB3.2 10Gbps) and back ports (DC IN, USB-C 40Gbps, HDMI 2.1 4K 120Hz, 3.5mm Audio Jack, USB2.0 480Mbps, DP1.4 4K 120Hz, LAN 2.5G, USB3.2 10Gbps).



Figure 4.2: External Device Connections. This image demonstrates the seamless connectivity of the Beelink SER8 Mini PC with a variety of external devices, including keyboards, printers, NAS devices, TVs, projectors, speakers, and headphones, highlighting its versatility.

4.2. Powering On

1. **Connect Power Adapter:** Plug the power adapter into the DC IN port on the back of the Mini PC, then plug the adapter into a power outlet.
2. **Power On:** Press the power button located on the front of the Mini PC. The power indicator light will illuminate.
3. **Initial Setup:** Follow the on-screen instructions to complete the operating system setup (e.g., Windows OS).

5. OPERATING INSTRUCTIONS

The Beelink SER8 Mini PC operates like a standard desktop computer. Here are some general operating guidelines:

5.1. Basic Operation

- **Power On/Off:** Press the power button to turn on. To turn off, use the operating system's shutdown function. A short press on the power button can put the system to sleep.
- **Restart:** Use the operating system's restart function.
- **Clear CMOS:** The CLR CMOS button on the front panel can be used to reset BIOS settings if needed. Consult technical support before using this function.

5.2. Usage Scenarios

The Beelink SER8 Mini PC is versatile and suitable for various applications:

- **Office & Business:** Ideal for productivity tasks, presentations, and general office use.
- **Home Entertainment:** Excellent for HTPC setups, streaming 4K content, and casual gaming.
- **Creative Design:** Capable of handling demanding applications like CAD, Photoshop (PS), Premiere Pro (Pr), After Effects (Ae), Illustrator (Ai), and Dreamweaver (Dw).
- **Gaming:** Supports 3A games and mainstream online games with smooth frame rates.
- **Education & Programming:** Suitable for educational environments and software development.



Figure 5.1: Diverse Applications. This image showcases the Beelink Mini PC's suitability for a wide range of uses, from gaming and professional meetings to office tasks, educational purposes, audio production, school computer labs, and home theater setups.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Beelink SER8 Mini PC.

6.1. Cleaning

- Regularly wipe the exterior of the Mini PC with a soft, dry cloth.
- The dustproof design helps minimize internal dust, but occasional cleaning of the bottom mesh filter is recommended. Use a soft brush or compressed air to gently remove accumulated dust.
- Do not use liquid cleaners or abrasive materials.

6.2. Software Updates

- Keep your operating system and drivers updated to ensure system stability and security.
- Check the official Beelink website for the latest driver updates for your SER8 model.

6.3. Environmental Conditions

- Operate the Mini PC within the specified working temperature range of -10°C to 45°C and humidity of 30% to 85%.
- Store the Mini PC within the specified storage temperature range of -20°C to 60°C and humidity of 10% to 90%.
- Ensure adequate ventilation around the device. Do not block the air vents.

7. TROUBLESHOOTING

If you encounter issues with your Beelink SER8 Mini PC, refer to the following common troubleshooting steps:

7.1. No Power

- Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.

- Verify the power outlet is functional by plugging in another device.
- If Auto Power On is desired, contact Beelink technical support with your machine's barcode for the necessary tutorial file.

7.2. No Display

- Check that the HDMI, DisplayPort, or USB4 cable is securely connected to both the Mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source.
- Try a different display cable or monitor if possible.

7.3. System Slowdown or Freezing

- Close unnecessary applications running in the background.
- Check for sufficient free storage space on the SSD.
- Ensure the Mini PC has adequate ventilation and is not overheating.
- Update drivers and operating system.

7.4. Network Connectivity Issues

- For wired connections, check the Ethernet cable and router/modem status.
- For wireless connections, ensure WiFi is enabled and you are connected to the correct network. Try restarting your router.
- Update network drivers.

For further assistance, please refer to the Warranty and Support section.

8. SPECIFICATIONS

Detailed technical specifications for the Beelink SER8 Mini PC:

Beelink SER8 8745HS Desktop Computer Specifications

CPU	AMD Ryzen 7 8745HS 3.8-4.9GHz, 8C/16T L2 8MB L3 16MB/ 54W TDP/65WTDP	GPU	High-Performance AMD Radeon 780M 12core 2600 MHz Graphics
RAM	32GB DDR5-5600MHz RAM (16GB*2, Expandable to 256GB)	ROM	1TB M.2 PCIe4.0 X4 2280 SSD , Support up to 8TB in totally
Internal slot	SO-DIMM DDR5 Slot x2, M.2 PCIe4.0 X4 2280 SSD Slot x2,	Connectivity	WiFi 6(802.11ax), Bluetooth 5.2, RJ45 2.5Gbps LAN
Interface	1 x Type-C USB3.2 (10Gbps), 2 x USB3.2 (10Gbps), 1 x USB2.0 (480Mbps), 1 x HDMI, 1 x USB4 (40Gbps/TB2/DP1.4) , 1 x Displayport1.4, 2 x 3.5mm Audio Jack (Realtek ALC897), 1 x DC IN (Pogopin), 1 x RJ45 LAN (2.5G)k, 1*CLR CMOS Reset	Package	1 x Beelink SER8 8745HS Mini PC, 1 x HDMI Cables(100CM), 1 x AC Cable, 1 x User Manual
Power	Input: 100-240V AC, 50/60Hz , Output: 19V 1.9A	Other Functions	Built-in PSU,Auto Power On,WoL
Working Temperature	-10°C--45°C□30%--85% Humidity	Storage Temperature	-20°C--60C,10%-90% Humidity Environment

Figure 8.1: Detailed Specifications. This image presents a comprehensive table outlining the specifications of the Beelink SER8 8745HS Desktop Computer, covering CPU, GPU, RAM, ROM, Connectivity, Interface ports, Power requirements, Working Temperature, and Storage Temperature.

Component	Specification
Processor	AMD Ryzen 7 8745HS (8 Cores, 16 Threads, 3.8GHz base, up to 4.9GHz)
Graphics Coprocessor	AMD Radeon 780M (12 Cores, 2700 MHz)
RAM	32GB DDR5 5600MHz (2 x 16GB SO-DIMM, expandable to 256GB)
Hard Drive	1TB M.2 PCIe4.0 2280 SSD (Dual SSD slots, max 8TB total)
Operating System	OS (Pre-installed)
Wireless Type	802.11ax (WiFi 6), Bluetooth 5.2
LAN	2.5Gbps Ethernet
Video Output	HDMI 2.1 (4K@120Hz), DisplayPort 1.4 (4K@120Hz), USB4 (4K@120Hz)
USB Ports (Front)	1 x Type-C USB 10Gbps, 1 x USB 3.2 10Gbps
USB Ports (Rear)	1 x USB4 (40Gbps), 2 x USB 3.2 10Gbps, 2 x USB 2.0 480Mbps
Audio Jack	2 x 3.5mm Audio Jack (Front & Rear)
Power Input	100-240V AC, 50/60Hz, Output: 19V 1.9A
Item Weight	3.12 pounds
Dimensions	7.13 x 6.65 x 4.06 inches (Package)

9. WARRANTY AND SUPPORT

Beelink is committed to providing excellent customer service and technical support for your product.

9.1. Technical Support

We provide 7 Day/24-hour technical support. If you have any product-related questions or require assistance, please contact our customer service. We aim to reply as soon as possible.

For support, you can typically:

- Log in to your Amazon account.
- Navigate to "Your Account" then "Your Orders".
- Locate your Beelink SER8 Mini PC order and select "Ask Product Question" or similar option to contact the seller, Beelink USA.

After-sales Service From Beelink USA

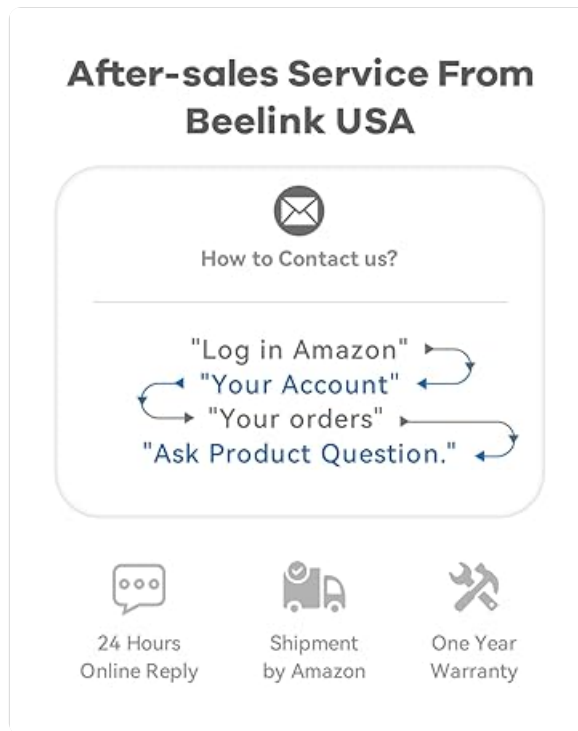


Figure 9.1: After-sales Service. This image outlines the process to contact Beelink USA for after-sales support via Amazon, emphasizing 24-hour online reply, fulfillment by Amazon, and a one-year warranty.

9.2. Certifications

Products have passed CE, EMC, FCC, and RoHS certifications, ensuring compliance with relevant safety and environmental standards.

9.3. Warranty Information

While specific warranty terms may vary, Beelink typically offers a one-year warranty on its products. Please retain your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question