

Beelink SER5

Beelink SER5 MAX Mini PC User Manual

Model: SER5 (AMD R7-6800U-32G+500GB)

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your Beelink SER5 MAX Mini PC. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Beelink SER5 Mini PC ×1
- Power Adapter ×1
- Wall-Mounted bracket ×1
- User Manual ×1
- HDMI Cable (100CM) ×1

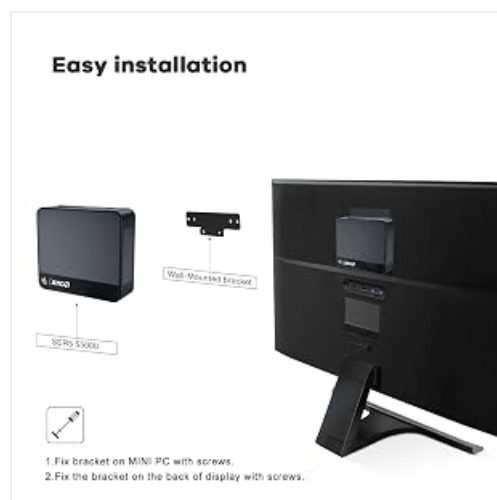


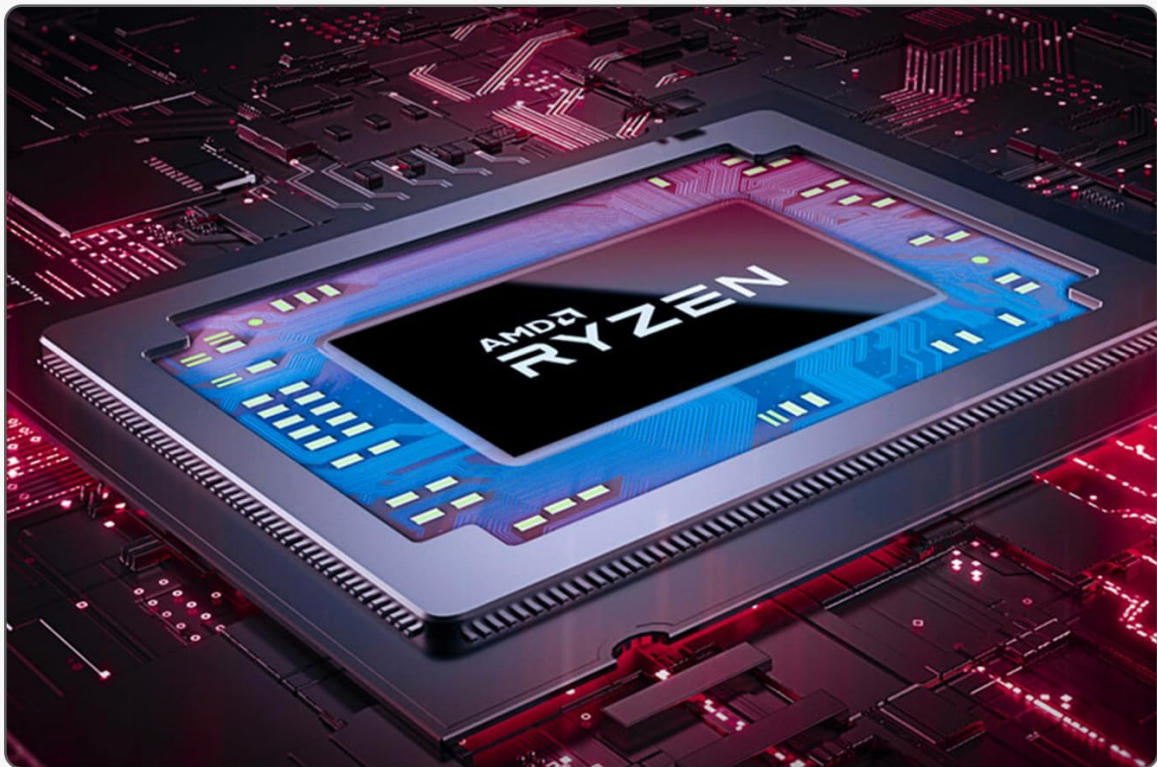
Image: Included accessories for the Beelink SER5 MAX Mini PC, showing the mini PC, power adapter, HDMI cable, VESA mount,

3. PRODUCT OVERVIEW

3.1 Front and Rear Ports

The Beelink SER5 MAX Mini PC features a variety of ports for connectivity. The front panel provides easily accessible ports for common peripherals, while the rear panel offers ports for display outputs, network, and power.

AMD Ryzen™ R7 6800U



4.7 GHz
Max. Boost Clock

2200 MHz
graphics frequency

8
cores

16
threads

Image: Detailed view of the front and rear ports on the Beelink SER5 MAX Mini PC. The front includes USB 3.2 Gen2, USB 2.0, Type-C (Data & Video), Headphone Jack, and Power button. The rear includes DC-in, HDMI 2.0, DisplayPort 1.4, USB 3.2 Gen2, USB 2.0, and RJ45 LAN.

The front panel includes:

- 2x USB 3.2 Gen2 ports (10Gbps)
- 1x USB 2.0 port
- 1x Type-C port (Data & Video output)
- 1x Headphone Jack

- 1x Power button

The rear panel includes:

- 1x DC Jack
- 1x HDMI port (max 4K 60Hz)
- 1x DisplayPort (DP 1.4, max 4K 144Hz)
- 2x USB 3.2 Gen2 ports (10Gbps)
- 1x USB 2.0 port
- 1x RJ45 LAN port (1000Mbps)

4. SETUP GUIDE

4.1 Initial Connection

1. Connect your monitor(s) to the HDMI, DisplayPort, or Type-C video outputs on the Mini PC.
2. Connect your keyboard and mouse to the available USB ports.
3. Connect the power adapter to the DC Jack on the Mini PC and then plug it into a power outlet.
4. Press the power button on the front panel to turn on the Mini PC.

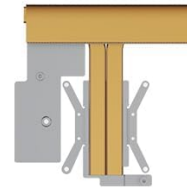
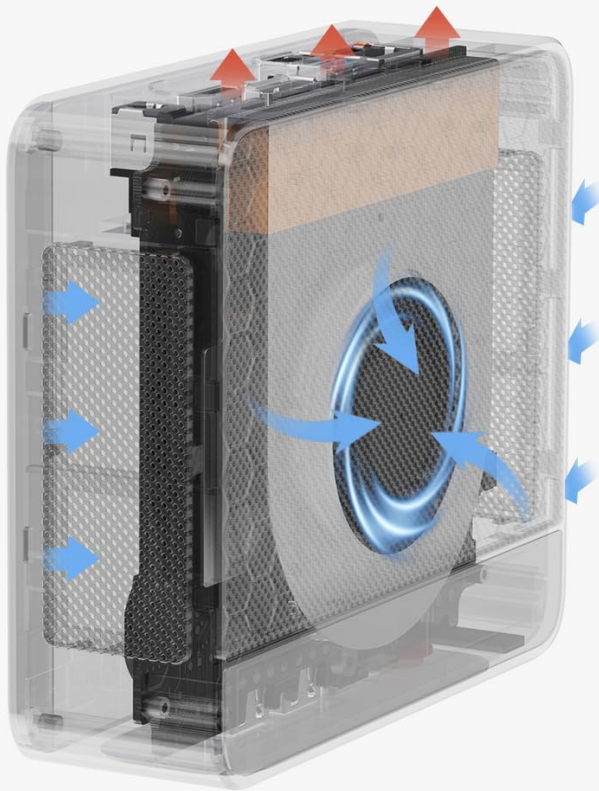
4.2 VESA Mount Installation

The Beelink SER5 MAX Mini PC can be mounted to the back of a compatible monitor using the included VESA mount bracket. This saves desk space and provides a cleaner setup.

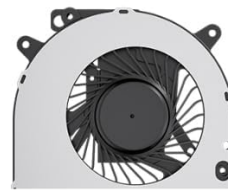
1. Secure the VESA bracket to the Mini PC using the provided screws.
2. Attach the Mini PC with the bracket to the VESA mounting holes on the back of your display using the appropriate screws.

Efficient Cooling

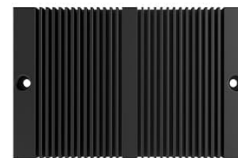
Heat Pipe+Heat Sink+Silent Fan



Heat Pipe



Silent Fan



Heat Sink



50°C SSD Surface Temperature

Image: Diagram illustrating the VESA mount installation process, showing how to attach the bracket to the mini PC and then to the back of a monitor.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **To Power On:** Press the power button on the front of the Mini PC.
- **To Power Off:** Use the operating system's shutdown function. Alternatively, press and hold the power button for 5-7 seconds for a forced shutdown (use only when necessary).

5.2 BIOS Access

To access the BIOS settings or boot options:

- **Enter BIOS Settings:** Press the "Delete" key repeatedly at the Beelink logo during boot-up.
- **Enter Boot Options Menu:** Press the "F7" key repeatedly at the Beelink logo during boot-up.

5.3 Triple Display Setup

The Beelink SER5 MAX supports connecting up to three displays simultaneously, enhancing productivity for various tasks. Utilize the HDMI, DisplayPort, and Type-C video outputs for this configuration.

Seamless internet access experience the speed of WiFi 6

NO network congestion and lower latency,Bluetooth 5.2 offers improved stability and efficiency.

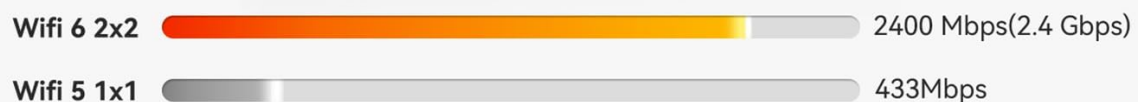


Image: An illustration of the Beelink SER5 MAX Mini PC connected to three external monitors, demonstrating its triple display capability for an expanded workspace.

5.4 Network Connectivity

The Mini PC offers robust network connectivity options:

- **Wi-Fi 6:** Provides faster wireless speeds and lower latency compared to previous Wi-Fi standards.
- **Bluetooth 5.2:** For stable and efficient connection to various wireless devices such as keyboards, mice, and audio peripherals.
- **RJ45 LAN:** A Gigabit Ethernet port for a stable wired network connection.



Image: Visual representation of the Wi-Fi 6 and Bluetooth 5.2 capabilities of the Beelink SER5 MAX Mini PC, highlighting improved wireless performance.

6. STORAGE AND MEMORY EXPANSION

6.1 Storage Expansion

The Beelink SER5 MAX Mini PC comes with a 500GB M.2 NVMe 2280 SSD. It supports dual M.2 2280 PCIe 4.0 SSD slots, each supporting up to 4TB of storage. Additionally, there is space for a 2.5-inch SSD/HDD inside the bottom lid for further storage expansion.

Support for Dual M.2 PCIe SSDs

An M.2 PCIe SSD of up to 4TB in each slot. Optional storage of retail units is 500GB/1TB.



Image: Internal view of the Beelink SER5 MAX Mini PC, showing the dual M.2 PCIe SSD slots for storage expansion.

7. COOLING SYSTEM

The SER5 MAX Mini PC is equipped with an efficient MSC2.0 cooling system, featuring a cooling fan, dual heat conduction tubes, and a heat sink to maintain optimal operating temperatures and ensure stable performance.

Accessories



1.User manual



2.VESA-mounted bracket



3.HDMI cables



4.Power adapter
(Optional: US /EU /UK /JP /AU)

Image: Diagram illustrating the internal cooling components of the Beelink SER5 MAX Mini PC, including the heat pipe, heat sink, and silent fan.

7.1 CPU Temperature & Noise Test Data

The following table presents typical CPU temperature and noise levels under various workloads. Note that actual performance may vary due to environmental conditions and specific configurations.

Game	Temperature	FPS on AVG	Noise
Overwatch	81°C	47FPS	34.6–35.2dB
Forza Horizon 5	65°C	53FPS	35–37.1dB
CS:GO	73°C	44FPS	35.3–37dB
DOTA2	73°C	65FPS	34.6–37.2dB
League of Legends	72°C	64FPS	34–36.5dB
PUBG	79°C	41FPS	33.7–37.8dB

Test Configurations: AMD Ryzen™ 7 6800H Processor, Radeon™ 680M Graphics, 32GB(16GB*2) LPDDR5 RAM, PCIe 1TB SSD, 1080p low quality, 27°C ambient temperature. Test data from Beelink lab, and the actual performance may fluctuate due to environmental and configuration changes.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Beelink SER5 MAX Mini PC.

- Q: What should I do if I find the Mini PC defective?**
A: Please contact customer support immediately. They will provide assistance and a satisfactory solution.
- Q: What should I do if I need to update the Mini PC?**
A: Please contact customer support, and they will provide the necessary tutorial files and guidance for updates.
- Q: How do I set up Auto Power On?**
A: To enable the Auto Power On feature, please send the barcode located at the bottom of your machine to customer support. They will provide the corresponding tutorial file.

9. SPECIFICATIONS

Detailed technical specifications for the Beelink SER5 MAX Mini PC:

Feature	Description
Brand	Beelink
Model Name	SER5
Operating System	OS (Pre-installed)
CPU Model	AMD Ryzen 7 6800U (8 Cores, 16 Threads)
CPU Speed	Up to 4.7 GHz (Max Boost Clock)
Graphics Coprocessor	AMD Radeon Graphics 12core 2200 MHz
RAM Memory Installed	32 GB LPDDR5
Memory Speed	5200 MHz
Memory Slots Available	2 (LPDDR5 is typically soldered, this might refer to M.2 slots for storage)
Memory Storage Capacity	500 GB M.2 NVMe SSD
Hard Disk Description	SSD (M.2 NVMe 2280, expandable up to 8TB; supports 2.5-inch SSD/HDD)
Video Output	HDMI, DisplayPort, Type-C (Supports 4K Triple Display)
Display Resolution Maximum	3840x2160 (4K)
Connectivity Technology	Bluetooth 5.2, Ethernet (RJ45), HDMI, USB, Wi-Fi 6
Total USB Ports	4 (2x USB 3.2 Gen2, 2x USB 2.0) + 1x Type-C
Item Weight	0.89 kg
Manufacturer	Shenzhen AZW Technology Co., Ltd.

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The Beelink SER5 MAX Mini PC comes with a **1-year 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.

10.2 Technical Support

For technical assistance, troubleshooting, or any questions regarding your Beelink SER5 MAX Mini PC, please contact Beelink customer support. You can typically find contact information on the official Beelink website or through your purchase platform.

Beelink provides professional after-sales service and lifetime technical support. If a replacement is needed during the warranty period, it will be provided.