Beelink SER5 16G/500G/5500U

Beelink SER5 Mini PC User Manual: AMD Ryzen 5 5500U Desktop Computer

Model: SER5 16G/500G/5500U

Setup	Operating	Maintenance	Troubleshooting	Specifications	Warranty & Support

1. SETUP

1.1 What's in the Box

- 1 x Beelink SER5 Mini PC
- 1 x HDMI Cable
- 1 x Power Adapter
- 1 x User Manual
- 1 x VESA Mount & Screws

1.2 Initial Connection

Connect your Beelink SER5 Mini PC to a monitor using the provided HDMI cable. Connect a keyboard and mouse to the available USB ports. Finally, connect the power adapter to the DC Jack and plug it into a power outlet.

Max 64GB of memory, playing games and working more smoothly

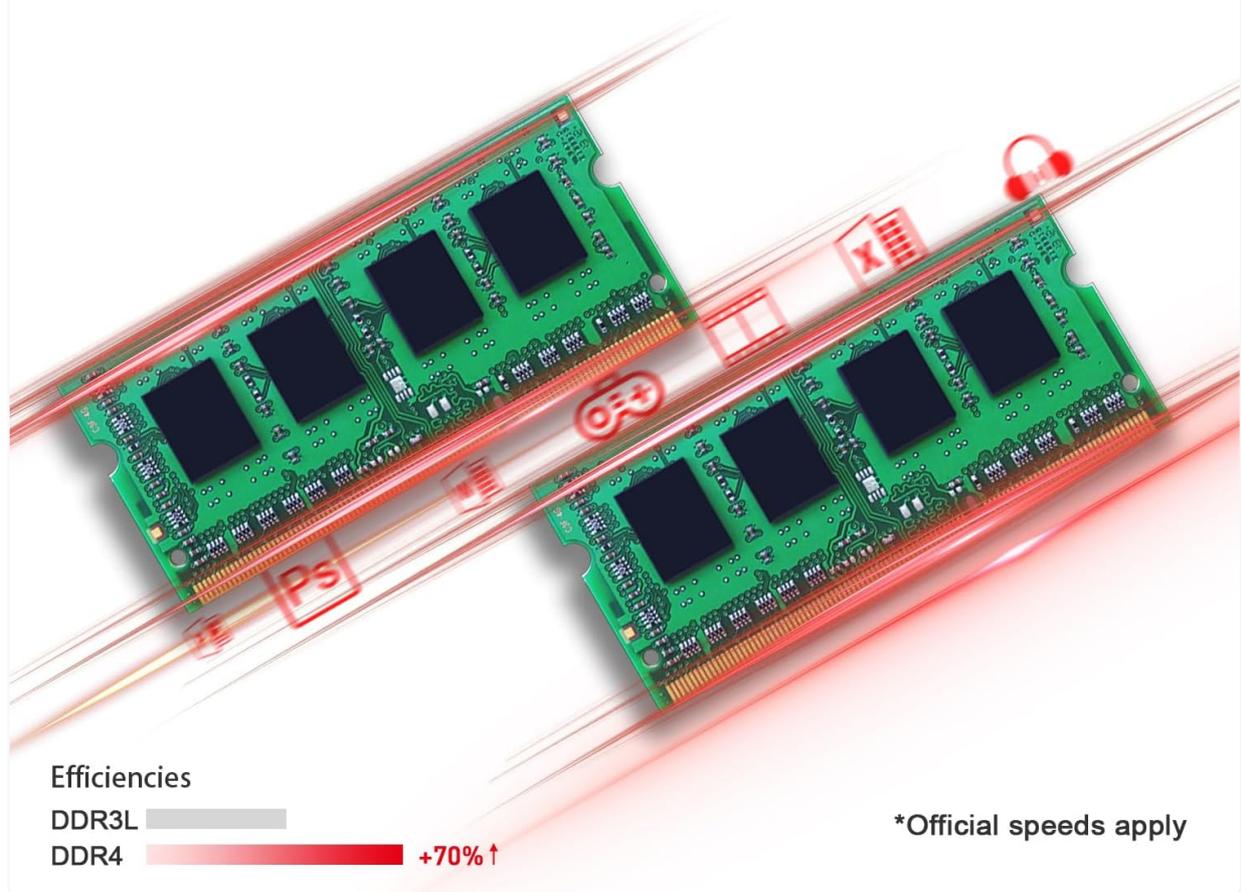Max support Single-channel 32GB 3200MHz , dual-channel 64GB 3200MHz, optional dual-channel 16GB(8*2).

Efficiencies

DDR3L

DDR4 **+70%**↑

*Official speeds apply

Figure 1: Rear view of the Beelink SER5 Mini PC showing available ports including HDMI, DP, USB, LAN, and DC power input.

1.3 VESA Mounting

The Beelink SER5 Mini PC supports VESA mounting, allowing you to attach it to the back of a compatible monitor or TV for a clutter-free desktop. Use the included VESA mount and screws to secure the mini PC.

WiFi 6 supports faster transmission speed

With fast and reliable wireless network connection,
Bluetooth 5.2 latency is lower, more stable and efficient

Wifi 5 1x1 — 433Mbps

Wifi 6 2x2 — 2400 Mbps(2.4 Gbps)

Figure 2: Beelink SER5 Mini PC shown VESA mounted to the rear of a monitor, illustrating space-saving installation.

1.4 Operating System Installation

The Beelink SER5 Mini PC comes with an operating system pre-installed. If you need to reinstall or install a different OS, follow these steps:

1. Prepare a USB flash drive with at least 8GB capacity.
2. Download the Windows 11 or desired OS installation media creation tool from Microsoft's official website.
3. Follow the on-screen instructions to create a bootable USB drive.
4. Connect the bootable USB drive to the Mini PC.
5. Power on the Mini PC and repeatedly press the designated key (e.g., F7 or Delete) to enter the boot menu or BIOS settings.
6. Select the USB drive as the primary boot device.
7. Follow the on-screen prompts to install the operating system.

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Video 1: Tutorial on how to install Windows 11 on a Beelink Mini PC using a USB drive.

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1.5 Driver Installation

After OS installation, ensure all necessary drivers are installed for optimal performance. You can download the latest drivers from the official Beelink support website.

1.6 Storage Expansion (2.5-inch SSD/HDD)

The Beelink SER5 Mini PC supports expansion with a 2.5-inch 7mm HDD/SSD up to 2TB (not included). To install:

1. Carefully unscrew the four screws at the bottom of the Mini PC.
2. Gently pry off the bottom panel. Be extremely careful with the thin SATA ribbon cable connecting the panel to the motherboard.
3. Slide your 2.5-inch SSD or HDD into the designated cage on the bottom panel, ensuring the SATA port aligns with the adapter.
4. Carefully reattach the bottom panel, ensuring the ribbon cable is not pinched or damaged.
5. Screw the panel back into place.
6. After booting into the OS, go to Disk Management to initialize and format the new drive if it's brand new.

Figure 3: Internal view of the Beelink SER5 Mini PC showing the M.2 NVMe SSD slot. The device also supports 2.5-inch HDD/SSD expansion.

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Video 3: Detailed instructions on how to add a SATA SSD to the Beelink SER5 Mini PC.

1.7 RAM Upgrade

The Mini PC has dual-channel SO-DIMM DDR4 RAM, upgradeable to a maximum of 64GB (2 x 32GB). The process to upgrade RAM is similar to adding storage:

1. Carefully unscrew the four screws at the bottom of the Mini PC and gently remove the bottom panel.
2. Locate the RAM slots on the motherboard.

3. Gently push the clips on either side of the RAM module outwards to release it.

4. Insert the new RAM module, ensuring it is correctly oriented and clicks into place.

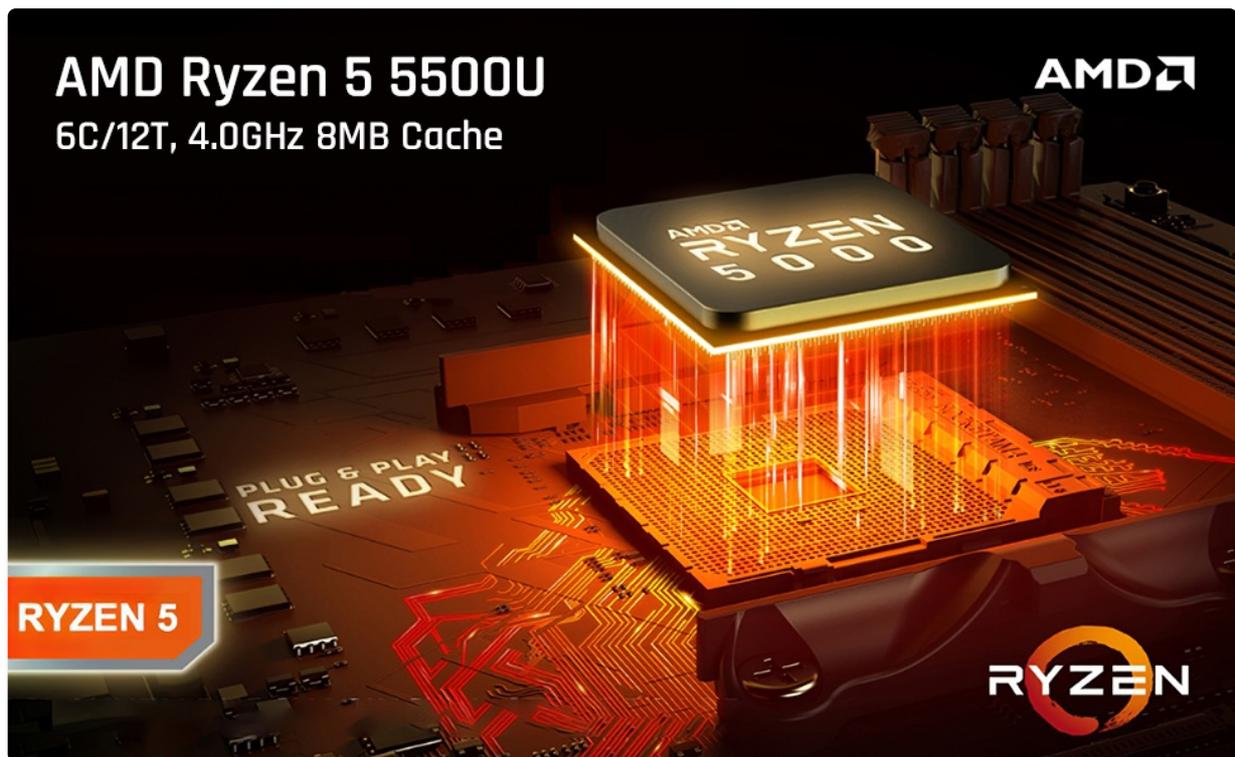5. Reattach the bottom panel and screw it back into place.

Figure 4: Close-up view of the DDR4 SO-DIMM RAM modules installed in the Beelink SER5 Mini PC.

2. OPERATING THE MINI PC

2.1 Power On/Off

Press the power button on the front of the Mini PC to turn it on. To turn it off, use the shutdown option in your operating system or press and hold the power button for a few seconds.

2.2 Multi-Screen Display

The Beelink SER5 Mini PC supports dual 4K@60Hz screen display output via HDMI and DisplayPort (DP). This allows for efficient multitasking and an enhanced viewing experience.

Plenty ports for connectivity

Multiple ports, various choices

RTC Key USB 3.2 Gen2 Type-c Earphone Power

LAN (2.5Gbps) USB 3.2 Gen2 USB2.0 DP 1.4 HDMI (4K HD) Power adapter

Figure 5: Beelink SER5 Mini PC setup with multiple monitors, demonstrating its multi-display capability.

2.3 Wireless Connectivity

The Mini PC features built-in WiFi 6 (802.11ax) and Bluetooth 5.2 for stable and fast wireless data transfers and peripheral connections.

3. MAINTENANCE

3.1 General Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation grilles are free from dust to maintain optimal airflow and prevent overheating.

3.2 Cleaning RAM Modules and Slots

Dust and debris can accumulate on RAM modules and slots, leading to system instability. To clean:

1. Power off the Mini PC and disconnect all cables.
2. Carefully remove the bottom panel as described in the RAM upgrade section.
3. Gently remove the RAM modules from their slots.
4. Use a clean, non-oily "Natural Gum" eraser to gently clean the gold contacts on the RAM modules. Alternatively, use isopropyl alcohol and a microfiber cloth.
5. Use a soft brush or compressed air to clean any dust from the RAM slots on the motherboard.
6. Reinsert the RAM modules, ensuring they are seated correctly.
7. Reattach the bottom panel and reconnect all cables.

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Video 4: Detailed guide on how to properly clean RAM modules and slots to resolve common computer issues.

4. TROUBLESHOOTING

4.1 System Not Booting or Freezing

If your Mini PC experiences issues like not booting up, freezing, or graphical glitches, especially in humid or dusty environments, RAM issues are a common cause. Refer to the "Cleaning RAM Modules and Slots" section under Maintenance.

After cleaning and reinserting RAM, test the system. If problems persist, try the following:

- **Test one RAM stick at a time:** If you have multiple RAM modules, try booting the system with only one module installed. If it boots successfully, test each module individually to identify a faulty one.
- **Try different RAM slots:** If a module doesn't work in one slot, try it in another known-good slot.
- **Run a memory diagnostic:** Use the built-in Windows Memory Diagnostic tool or a third-party tool like MemTest86 to check for RAM errors.

4.2 Operating System Issues

If you encounter operating system issues (e.g., missing apps, installation errors), a clean reinstallation of the OS is often the most effective solution. Refer to the "Operating System Installation" section under Setup.

5. SPECIFICATIONS

Feature	Detail
Brand	Beelink
Model Name	SER5 16G/500G/5500U
Operating System	OS (Windows 11 Pro pre-installed)
CPU Model	AMD Ryzen 5 5500U (6C/12T, up to 4.0GHz)
Graphics Coprocessor	AMD Radeon Graphics 7 Core 1800 MHz
RAM Memory Installed Size	16 GB DDR4 (Upgradeable to 64GB)

Hard Disk Description	500GB M.2 NVMe 2280 SSD (Supports up to 2TB)
Additional Storage	Supports 2.5-inch 7mm HDD/SSD up to 2TB (not included)
Video Output	HDMI, DisplayPort (DP), USB-C (Supports Dual 4K@60Hz)
Wireless Connectivity	WiFi 6 (802.11ax), Bluetooth 5.2
LAN	1*RJ45 2500M LAN
USB Ports	3*USB3.2 Gen2, 1*USB2.0
Audio Jack	1*Audio Jack (HP&MIC)
Cooling Method	Air Cooling (Heat pipe and copper plate)
Special Features	Supports Wake On LAN, Auto Power On, VESA Mount

6. WARRANTY & SUPPORT

6.1 Warranty Information

The Beelink SER5 Mini PC comes with a 1-year warranty. All products have passed strict inspection before shipping and obtained CE, FCC, and RoHS certifications.

6.2 Customer Support

Beelink offers lifetime technical support and 24/7 after-sales service. If you have any product-related questions or require assistance, please contact Beelink customer service.