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Beelink SER6 Pro

Beelink SER6 Pro Mini PC User Manual

Model: SER6 Pro

Introduction

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your Beelink SER6 Pro Mini PC. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.

1. Setup

1.1 Package Contents

Verify that all items are present in the package:

- Beelink SER6 Pro Mini PC
- Power Adapter
- HDMI Cable(s)
- User Manual
- Mounting Bracket (if included)
- Keyboard (as per product specifications)

1.2 Connecting Peripherals

Before powering on the Mini PC, connect all necessary peripherals.

Figure 1: Front view of the Beelink SER6 Pro Mini PC, showing USB ports, USB4.0 port, audio jack, and power button.

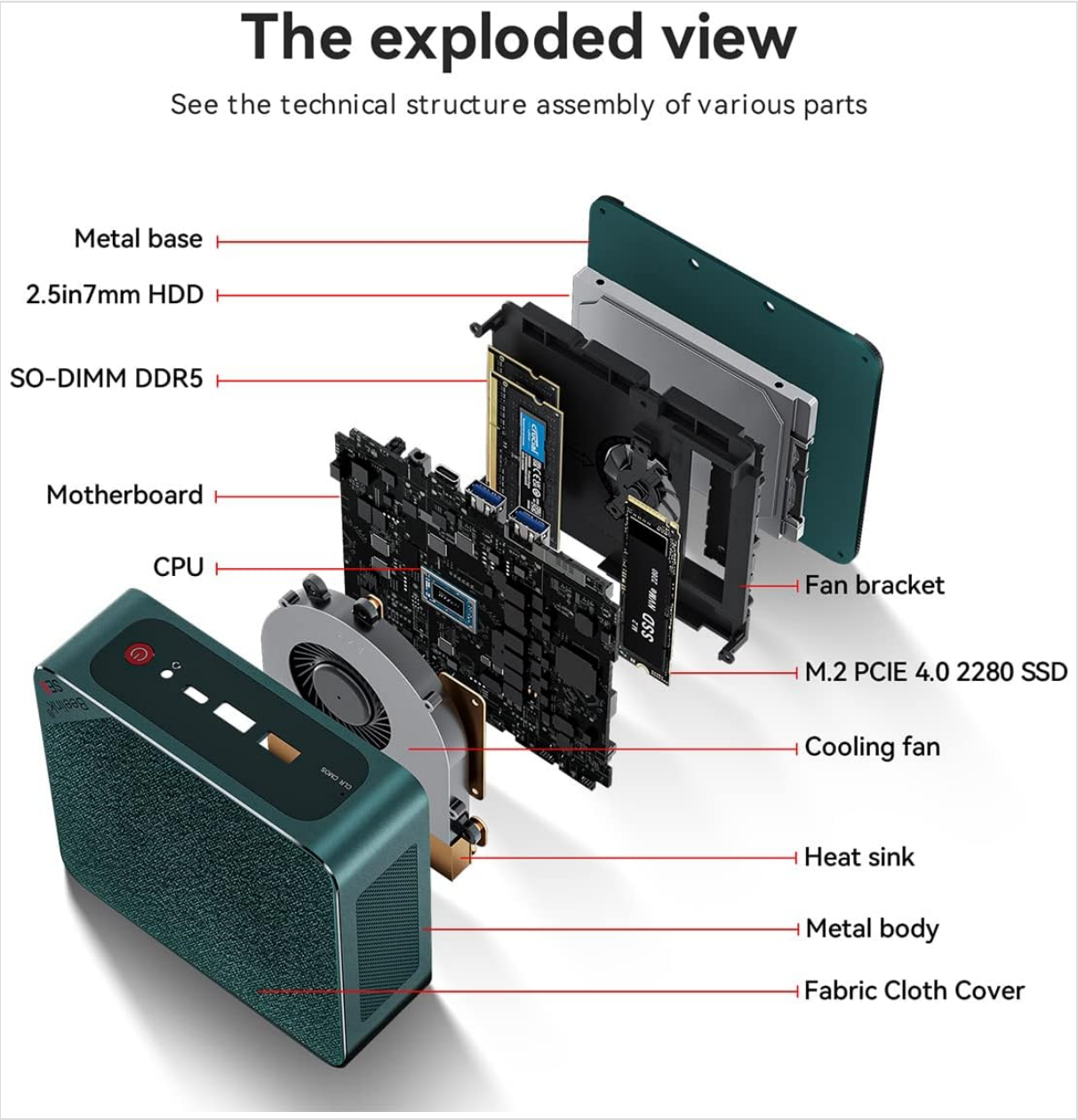


Figure 2: Rear view of the Beelink SER6 Pro Mini PC, illustrating LAN, USB, HDMI, and DC power ports.

1. **Connect Display:** Use an HDMI cable to connect your monitor(s) to the HDMI ports on the rear of the Mini PC. For triple display output, utilize both HDMI ports and the USB4.0 port with a compatible adapter/cable.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into the available USB ports (USB 3.2 Gen2 on the front, USB 2.0 and USB 3.2 Gen2 on the rear).
3. **Connect Network:** For a wired connection, connect an Ethernet cable to one of the 2.5G LAN ports. For wireless, ensure your Wi-Fi network is available.
4. **Connect Power:** Plug the power adapter into the DC power input port on the rear of the Mini PC, then connect the adapter to a power outlet.

1.3 Initial Power-On

Press the power button located on the front of the Mini PC. The system will boot into Windows 11 Pro. Follow the on-screen instructions for initial Windows setup.

2. Operating Instructions

2.1 Basic Usage

The Beelink SER6 Pro Mini PC comes pre-installed with Windows 11 Pro 64-bit, providing a familiar operating environment. Utilize your connected keyboard and mouse for navigation and input.

2.2 Connectivity

- **Wi-Fi 6:** The Mini PC supports Wi-Fi 6 (802.11ax) for high-speed wireless internet connectivity. Configure your Wi-Fi connection through Windows settings.
- **Bluetooth 5.2:** Connect compatible Bluetooth devices such as headphones, speakers, or input devices via Bluetooth 5.2.
- **2.5G LAN:** Dual 2500Mbps LAN ports offer high-speed wired network connections, suitable for various network configurations including software routers and firewalls.

2.3 Display Configuration

The Mini PC supports triple 4K@60Hz display output, allowing for extended desktop environments. Connect displays using the two HDMI ports and the USB4.0 port (with a compatible adapter for video output). Adjust display settings within Windows to configure resolution, orientation, and multiple display modes.

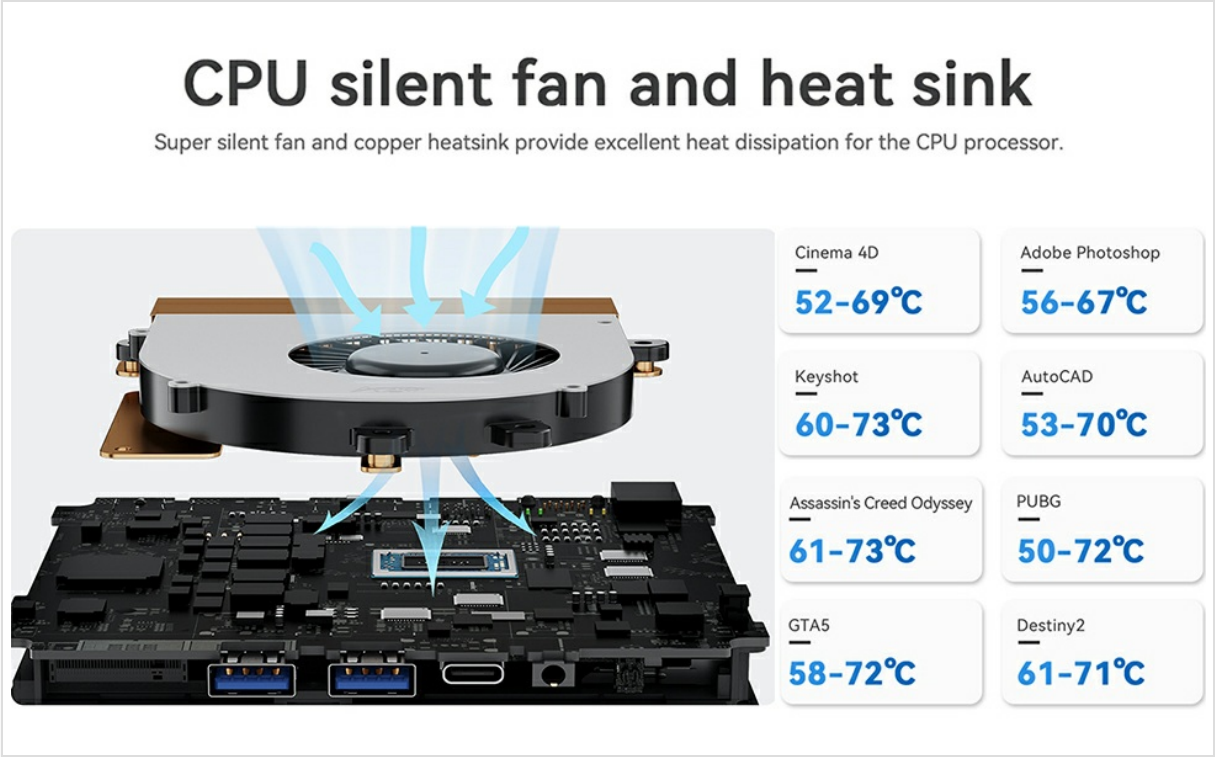


Figure 3: The Beelink SER6 Pro Mini PC connected to three external monitors, demonstrating its triple display capability for enhanced multitasking.

2.4 USB4.0 Port Functionality

The USB4.0 port provides versatile connectivity:

- **High-Speed Data Transfer:** Supports a maximum transmission speed of 40Gbps.
- **Video Output:** Supports DisplayPort 2.0 protocol for 8K@60Hz + HDR10 video transmission.
- **Power Delivery (PD):** Supports up to 100W power delivery.
- **Backward Compatibility:** Compatible with USB 3.2/3.1/3.0 and Thunderbolt 3 devices.
- **External Graphics Cards:** Supports external graphics cards (requires independent power supply).

2.5 Performance Overview

The Mini PC is equipped with an AMD Ryzen 7 6800H CPU (8 cores/16 threads, up to 4.7GHz) and AMD Radeon Graphics (12 cores, 2200MHz GPU) for robust performance across various applications, including:

- **Gaming:** Capable of running various games smoothly.
- **Design & Rendering:** Suitable for demanding creative software.
- **Office & Multimedia:** Efficient for productivity tasks, 4K/8K video streaming, and home theater use.

Video 1: An official product video from Beelink-USA showcasing the features and performance of the SER6 Pro Mini PC, including its processor, graphics, and connectivity options.

3. Maintenance

3.1 Heat Dissipation

The Beelink SER6 Pro features an advanced cooling system with a dual fan design, including a CPU silent fan and a system fan. This design ensures efficient heat dissipation for the CPU, SSD, DDR5 RAM, and HDD, maintaining stable performance even under heavy loads.

Name	PS2020	Ai2020	DW2021	CAD2021	AE2022	CAD R25	3Dmax2018	Maya2022
Start time	4.32s	3.12s	3.75s	4.33s	5.21s	3.82s	9.58s	7.82s
Operation response time	0.1~0.7s	0.1~0.5s	0.1~0.5s	0.1~0.5s	0.1~0.7s	0.1~1.0s	0.1~1.5s	0.1~1.5s
CPU temperature	52~69℃	45~57℃	49~61℃	51~57℃	63~72℃	60~73℃	55~71℃	53~73℃
Operation fluency full score of five stars	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★½	★★★★	★★★★

Figure 4: Exploded view illustrating the internal components and cooling system of the Beelink SER6 Pro, highlighting the CPU fan, heat sink, and system fan for SSD/DDR/HDD cooling.

3.2 Storage Expansion

The Mini PC includes a 500GB PCIe 4.0 NVMe SSD (up to 2TB upgradeable). Additional storage can be added via a 2.5-inch 7mm SATA HDD/SSD.

3.3 RAM Upgrade

The device comes with dual-channel 32GB DDR5 RAM (2x16GB). The dual memory slots are upgradable to a maximum of 64GB DDR5 RAM.

4. Troubleshooting

If you encounter issues with your Beelink SER6 Pro Mini PC, consider the following common solutions:

- **No Display Output:** Ensure all display cables are securely connected. Try different ports or cables. Verify the monitor input source is correctly selected.
- **System Not Booting/Stuck on Logo:** Disconnect all non-essential peripherals. If the issue persists, try accessing the BIOS/UEFI settings (usually by pressing Del or F7 during startup) to check boot order or reset settings.
- **Graphics Driver Issues:** If experiencing display anomalies, ensure your AMD Radeon Graphics drivers are up to date. You can download the latest drivers from the official AMD website.
- **CLR CMOS Button:** The 'CLR CMOS' button on the front panel can be used to reset BIOS settings to default if you encounter boot issues related to BIOS configuration. Refer to the detailed product guide for specific instructions on using this feature.
- **Connectivity Problems (Wi-Fi/Bluetooth/LAN):** Check device manager in Windows for driver status. Ensure antennas are properly connected (if external). Restart your router/modem.

For persistent issues, refer to the support section for contact information.

5. Specifications

Feature	Specification
Processor	AMD Ryzen 7 6800H (8 Cores, 16 Threads, up to 4.7 GHz)
Graphics	AMD Radeon Graphics (12 Cores, 2200 MHz GPU)
RAM	32 GB DDR5 (Dual Channel, 4800MHz, upgradable to 64GB)
Storage	500 GB PCIe 4.0 NVMe SSD (up to 2TB), expandable via 2.5" SATA HDD/SSD
Operating System	Windows 11 Pro
Wireless Connectivity	Wi-Fi 6 (802.11ax), Bluetooth 5.2
Wired Connectivity	Dual 2.5G LAN Ports
Video Output	Dual HDMI, 1x USB4.0 (supports 8K@60Hz triple display)
USB Ports	1x USB 2.0, 3x USB 3.0, 1x USB4.0 (Type-C)
Dimensions (LxWxH)	4.96 x 4.44 x 1.65 inches
Weight	1.09 pounds

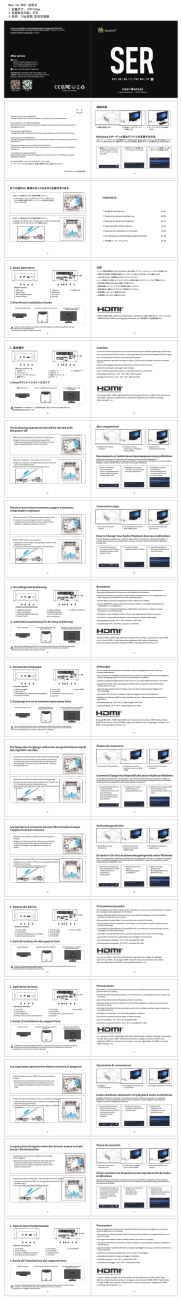
6. Warranty and Support

All Beelink Mini PCs are certified with FCC, CE, and RoHS standards and undergo strict inspection before shipping. Beelink offers:

- Lifetime technical support.
- 2-year worry-free warranty.
- 24-hour customer service.

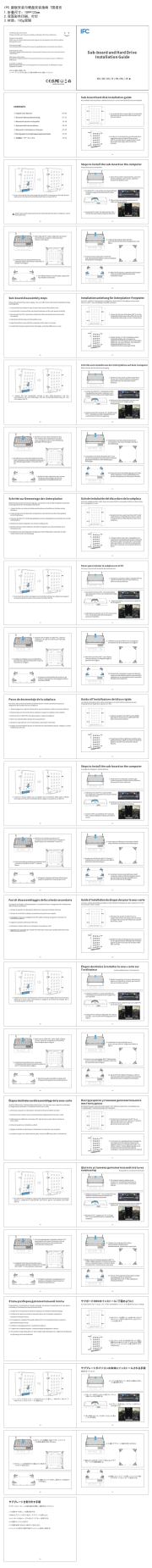
For technical assistance or warranty claims, please contact Beelink customer support through their official website or the retailer where the product was purchased.

Related Documents - SER6 Pro



[Beelink SER6 Pro Mini PC User Guide and Specifications]

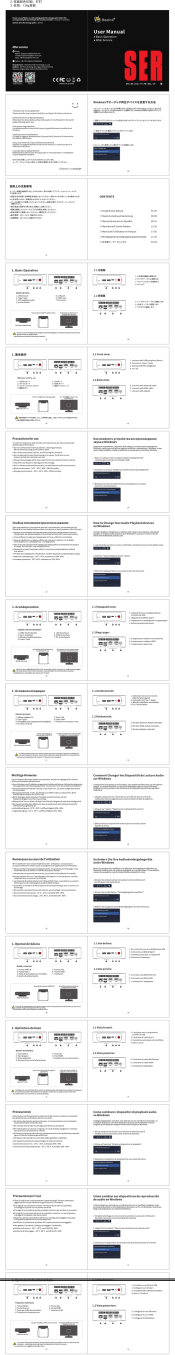
Comprehensive guide to the Beelink SER6 Pro Mini PC, featuring AMD Ryzen 7 7735HS processor, 32GB DDR5 RAM, 500GB NVMe SSD, and triple display support. Includes technical specifications and usage instructions.



[IPC Sub-board and Hard Drive Installation Guide]

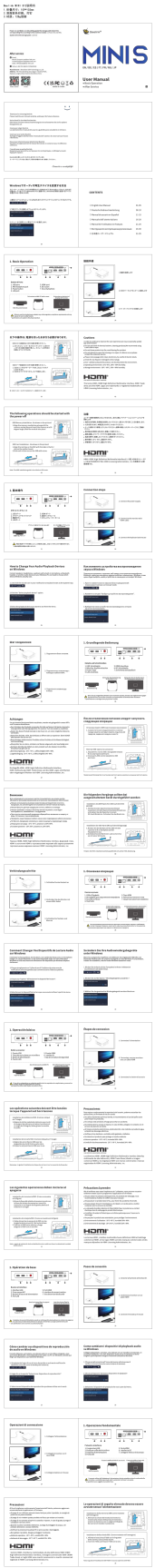
Concise guide for installing a 2.5-inch hard drive and sub-board (A01/B01) onto IPC computers, featuring step-by-step instructions and textual descriptions of diagrams.

	Beelink Mini PC Auto Power On Configuration Guide Instructions on how to enable the automatic power-on feature for Beelink Mini PCs using either BIOS settings or a hardware jumper.



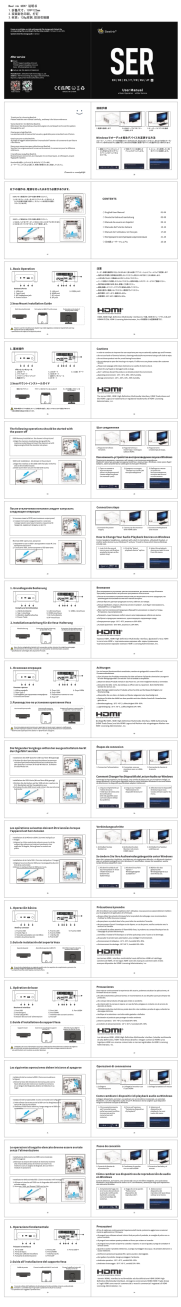
[Beelink SER Series Mini PC User Manual and Specifications]

Comprehensive user manual and specifications for Beelink SER series Mini PCs, including models like SER5 and EQR6, featuring AMD Ryzen processors, high-speed RAM and SSDs, and multi-display capabilities.



[Beelink MINI S12 Mini PC User Guide and Specifications]

Explore the features, specifications, and connectivity options of the Beelink MINI S12 mini PC. This guide provides detailed information on its Intel Celeron N5095 processor, dual display support, and various ports.



[Beelink SER7 Mini PC User Manual: Setup, Operation, and Connectivity]

Comprehensive user manual for the Beelink SER7 mini PC, detailing basic operation, Vesa mount installation, connection steps, and Windows audio configuration. Includes multilingual support and important cautions.