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Beelink MINI S12

Beelink MINI S12 Mini PC User Manual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Beelink MINI S12 Mini PC. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your user experience.



A compact, dark blue Beelink MINI S12 Mini PC with a textured top surface and front ports visible.

2. PACKAGE CONTENTS

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

- Beelink MINI S12 Mini PC
- User Manual
- Wall-Mounted Bracket
- HDMI Cables (2)
- Power Adapter (12V/3A)
- Pack of Screws

Accessories



Beelink®

MINIS


User Manual

EN / DE / ES / IT / FR / RU / JP

1.User manual



2.Wall-mounted bracket



3.HDMI cables

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

A visual representation of the accessories provided with the mini PC, including the user manual, wall-mounted bracket, HDMI cables, and power adapter.

3. PRODUCT OVERVIEW

The Beelink MINI S12 is a compact and efficient mini PC designed for various applications, from office work to home entertainment. It features an N95 processor, 12GB LPDDR5 RAM, and 256GB SSD storage, offering reliable performance in a small form factor.

4 Cores
Intel ALD_N N95

4 Threads
6MB Smart Cache

3.4 GHz
Max Turbo Frequency

16EUs
Intel® UHD Graphics

12TH GENERATION LOW-POWER OFFICE MINI PC

Size: 4.52*4.01*1.54 in

1200MHz
Graphics Max
Dynamic Frequency


MINI S12



 **WiFi 5(802.11ac)**
Bluetooth4.2 /LAN (2.5G)

 **LPDDR5 4800MT/s**
Single Channel 12GB

 **SSD Max 2TB**
Optional:M.2 SSD 256GB

 **Cooling System**
1. Silent fan
2. Heat pipe/heat sink
3. Hard drive cooling cover

An infographic highlighting key features such as N95 processor, UHD Graphics, LPDDR5 memory, WiFi 5, Bluetooth 4.2, 2.5G LAN, SSD storage, and cooling system.

Ports and Interfaces

The MINI S12 offers a variety of ports for connectivity:

- **Front Panel:**

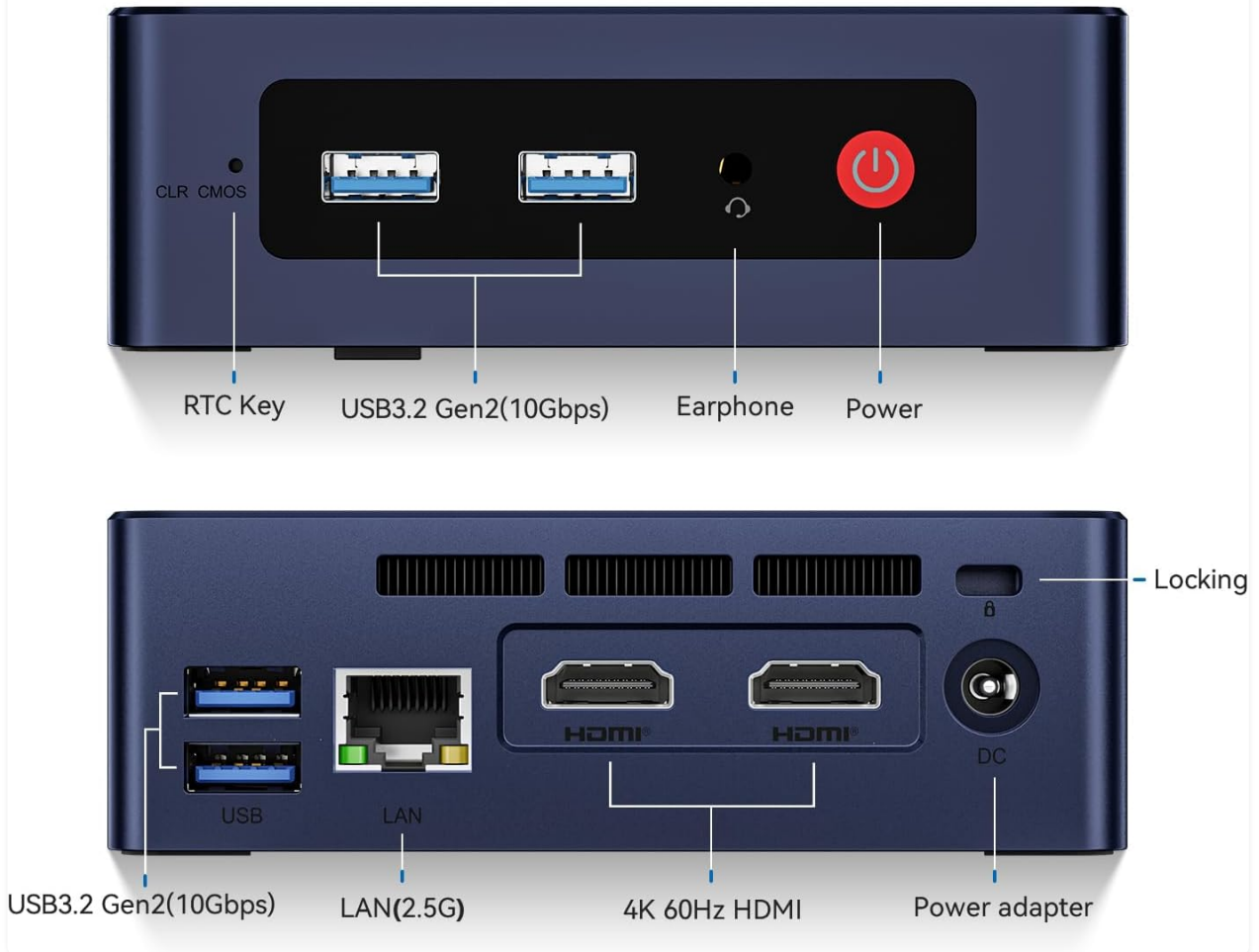
- CLR CMOS Button: For resetting BIOS settings.
- USB 3.2 Gen2 (10Gbps) Ports (2): For high-speed data transfer.
- Earphone Jack (3.5mm): For audio output.
- Power Button: To power on/off the device.

- **Rear Panel:**

- USB 3.2 Gen2 (10Gbps) Ports (2): Additional high-speed USB ports.
- LAN (2.5G) Port: For wired network connection.
- HDMI Ports (2): Supports 4K 60Hz dual display output.
- DC Power Input: For connecting the power adapter.

- Locking Slot: For security cables.

Rich interface design



Images showing the front panel with RTC Key, USB 3.2 Gen2 ports, earphone jack, and power button, and the rear panel with USB 3.2 Gen2 ports, LAN (2.5G), HDMI ports, and DC power input.

4. SETUP

4.1 Initial Setup

1. Connect your monitor(s) to the HDMI ports on the rear panel of the Mini PC using the provided HDMI cables.
2. Connect your keyboard and mouse to the available USB ports.
3. Plug the power adapter into the DC power input port on the rear panel, then connect it to a power outlet.
4. Press the Power Button on the front panel to turn on the Mini PC.

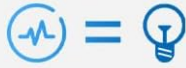
4.2 Network Connection

- **Wired Connection:** Connect an Ethernet cable from your router or modem to the 2.5G LAN port on the rear panel.
- **Wireless Connection:** The Mini PC supports WiFi 5 (802.11ac). Once the system boots, navigate to Windows settings to connect to your preferred Wi-Fi network.

4.3 VESA Mount Installation

The included VESA mount allows you to attach the Mini PC to the back of a compatible monitor or to a wall, saving desk space.

1. Secure the VESA bracket to the back of your monitor or desired surface using the provided screws.
2. Slide the Mini PC onto the mounted bracket until it clicks securely into place.



Energy saving

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



867Mbps

WiFi5 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/>)



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).



LAN 2.5G

The maximum download speed can reach 312.5MB/s with 2.5G broadband.



Wall Mount

Wall mounting allows the computer to be mounted on the back of the monitor as well as on the wall or under the table, freeing up more space.

An infographic illustrating features like energy efficiency, Wake On LAN, dual display support, 2.5G LAN, and VESA wall mount capability.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **Power On:** Press the Power Button on the front panel.
- **Shut Down:** In Windows 11, click the Start button, then Power > Shut down.

5.2 Windows 11 Home

Your Beelink MINI S12 comes pre-installed with Windows 11 Home. Follow the on-screen instructions for

initial setup, including language, region, and user account creation.

5.3 Dual Display Setup

The Mini PC supports dual display output via its two HDMI ports. Connect two monitors to the HDMI ports. Windows 11 will automatically detect the displays. You can configure display settings (extend, duplicate, or second screen only) by right-clicking on the desktop and selecting 'Display settings'.

5.4 Wake On LAN (WOL) and Auto Power On

The MINI S12 supports Wake On LAN (WOL) and Auto Power On features. These can be configured in the BIOS settings to automatically power on the device at a scheduled time or remotely via a network signal. For detailed instructions on configuring these features, please refer to the official Beelink website or support resources.

6. STORAGE EXPANSION

The Beelink MINI S12 includes a 256GB M.2 SATA3 SSD. For additional storage, you can install a 2.5-inch SATA HDD or SSD (up to 2TB) into the dedicated bay.

6.1 Installing a 2.5-inch SATA Drive

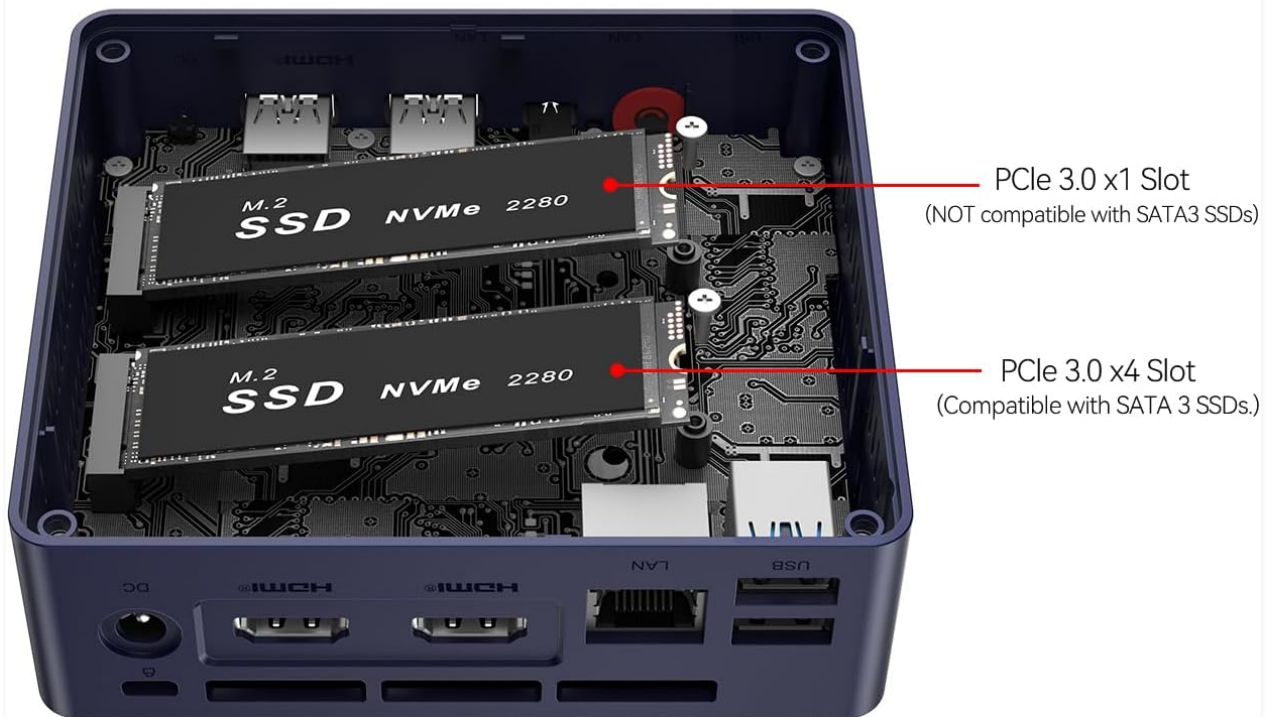
1. Ensure the Mini PC is powered off and disconnected from the power adapter.
2. Carefully remove the four screws from the bottom cover of the Mini PC.
3. Gently lift the bottom cover to reveal the internal components and the 2.5-inch drive bay.
4. Connect the pre-attached SATA data and power cable to your 2.5-inch SATA HDD/SSD.
5. Place the drive into the bay and secure it with the provided screws.
6. Replace the bottom cover and secure it with the four screws.

Dual SSD High-speed Storage

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

Mini S12 ships with a SATA3 SSD

Optional:256/512GB



An internal diagram showing the two M.2 SSD slots (PCIe 3.0 x1 and PCIe 3.0 x4) for storage expansion, compatible with SATA3 SSDs.

6.2 Video Guide for Storage Expansion

Your browser does not support the video tag.

Video demonstrating the installation of a 2.5-inch SATA hard drive or SSD into the Beelink MINI S12 Mini PC.

7. MAINTENANCE

7.1 Cleaning

To maintain optimal performance, regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions. Do not use liquid cleaners directly on the device.

7.2 Software Updates

Keep your Windows 11 operating system and device drivers updated. Regular updates improve system stability, security, and performance. Access Windows Update through the Settings menu. For driver updates, visit the Beelink official website or use Intel's Driver & Support Assistant.

8. TROUBLESHOOTING

- **No Display:** Ensure all HDMI cables are securely connected to both the Mini PC and the monitor. Verify the monitor input source is correctly selected. Try a different HDMI cable or monitor if possible.
- **No Power:** Check if the power adapter is correctly connected to the Mini PC and a working power outlet. Ensure the power button is pressed firmly.
- **Network Connectivity Issues:** For wired connections, check the Ethernet cable and router status. For Wi-Fi, ensure the Wi-Fi adapter is enabled in Windows settings and you are connected to the correct network with the correct password.
- **Slow Performance:** Close unnecessary applications. Check for background processes consuming high resources (Task Manager). Ensure sufficient free storage space. Consider running a disk cleanup or antivirus scan.
- **BIOS Reset:** If experiencing system instability or issues after configuration changes, use the CLR CMOS button on the front panel to reset BIOS settings to default.

If issues persist, refer to the Beelink support website or contact customer service.

9. SPECIFICATIONS

Key technical specifications for the Beelink MINI S12 Mini PC:

Feature	Specification
Product Type	Mini PC (Navy Blue)
Dimensions	4.52" x 4.01" x 1.54" (115x102x39mm)
CPU	Intel Alder Lake-N N95 Processor (4C/4T, 6MB Smart Cache, Max Turbo Frequency 3.4GHz)
Graphics	Intel UHD Graphics 1.20 GHz (16EUs)
RAM	12GB LPDDR5 4800MT/s
System Disk	M.2 2280 SSD (NVMe/SATA3 SSD Max 2TB) - 256GB included
Internal Slot	M.2 2280 SSD (M.2 PCIe X1 Max 2TB), 2.5" SATA HDD/SSD bay
Interfaces	4x USB 3.2 Gen2, 1x 2.5G LAN, 2x HDMI (4K 60Hz), 1x 3.5mm Phone Jack, 1x DC Jack, 1x CLR CMOS Button, 1x Locking Slot
Network	WiFi 5 (802.11ac), Bluetooth 4.2
Operating System	Windows 11 Home
Power Adapter	Input: 100-240V AC, 50/60Hz; Output: 12V 3A
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
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Product Specification

Product Type	Mini PC (Navy Blue)	Network	WiFi 5 (802.11ac) Bluetooth 4.2
Dimension	4.52*4.01*1.54 in(115*102*39mm)	CLR CMOS Button	1
CPU	Intel Alder Lake-N N95 Processor	Power Button	1
	Max Turbo Frequency 3.4GHz (4C/4T)	Adapter	12V-3A Certification
	6 MB Smart Cache		Input: 100-240V AC, 50/60Hz Output: 12V 3A
Graphics	Intel® UHD Graphics 1.20 GHz(16EUs)	Working Temperature	0°C--40°C, 90% @40°C Humidity
System Disk	M.2 2280 SSD(NVMe/SATA3 SSD Max 2TB)	Storage Temperature	-20°C--60°C, 90% @40°C Humidity
Internal Slot	12GB LPDDR5 4800MT/s	Additional function	WOL AUTO POWER ON
	M.2 2280 SSD(M.2 PCIe X1 Max 2TB)		Instruction manual*1
Interface	5.5*2.5 DC Jack*1	Accessories	Wall-Mounted bracket*1
	USB3.2 Gen2(10Gbps)*4		HDMI cable 100CM*1
	LAN 2.5G *1		Adapter 12V/3A*1
	3.5mm Phone Jack(Two-in-one)*1		One pack of screws
	HDMI(Max 4K 60Hz)*2		
	Locking*1		

A comprehensive table listing the product type, dimensions, CPU, graphics, system disk, internal slot, interface, network, CLR CMOS button, power button, adapter, working temperature, storage temperature, additional functions, and accessories.

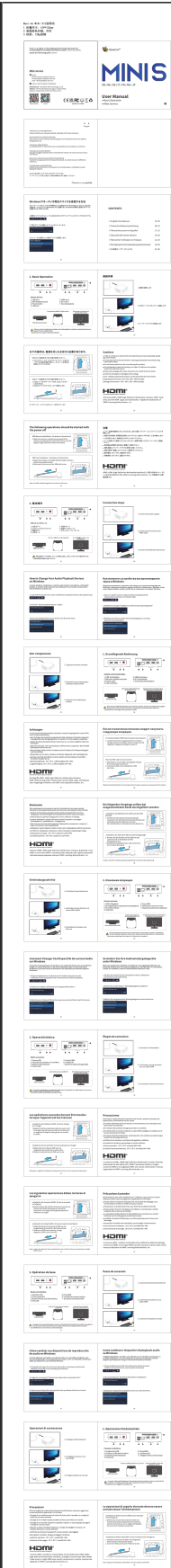
10. WARRANTY AND SUPPORT

Beelink provides comprehensive support for your MINI S12 Mini PC:

- **Warranty:** A 1-year worry-free warranty is included from the date of purchase.
- **Technical Support:** Lifetime technical support is available for all Beelink Mini PCs.
- **Customer Service:** 7/24 customer service is provided to assist with any questions or issues.

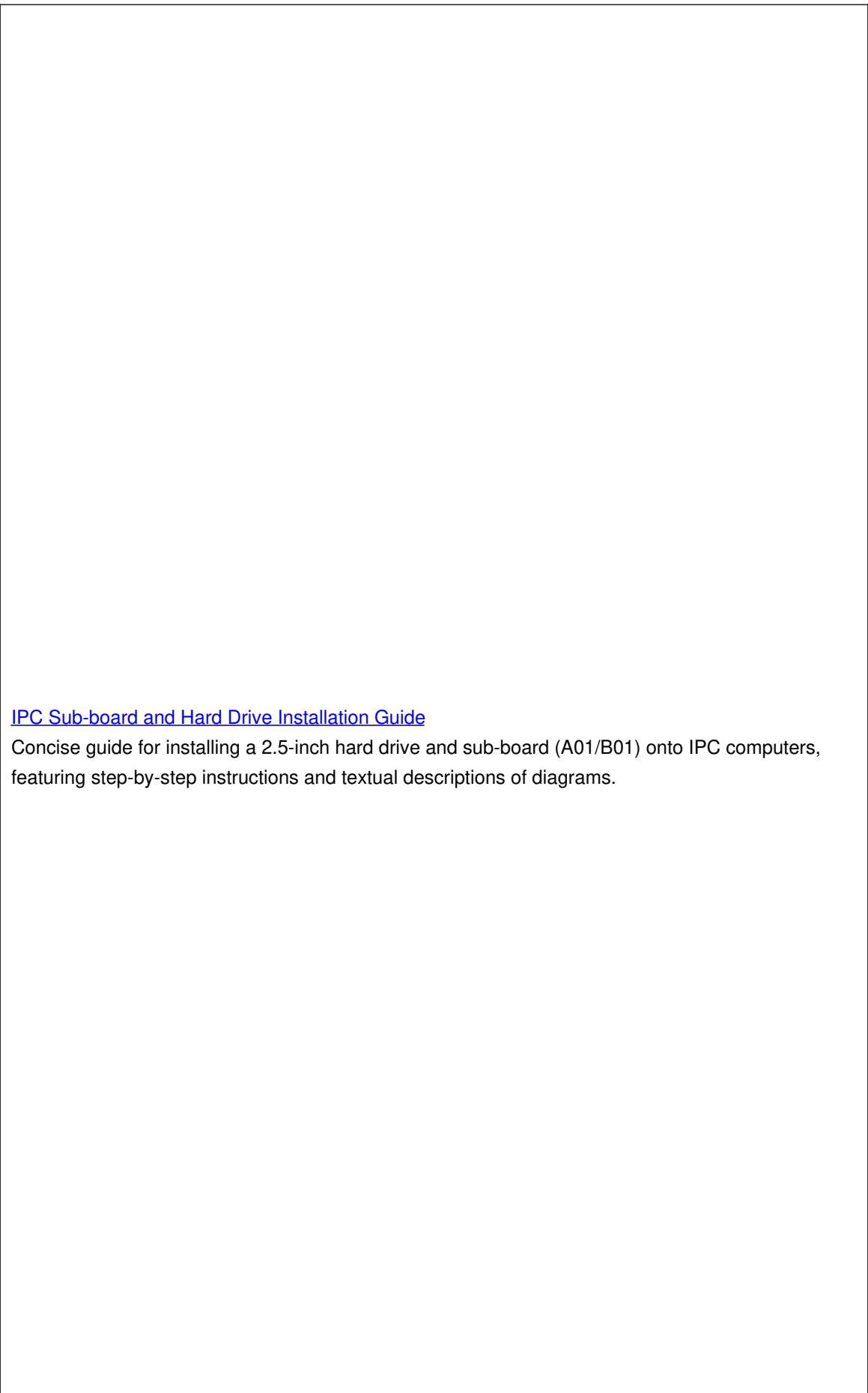
All Beelink Mini PCs have obtained FCC, CE, and RoHS certifications, ensuring product quality and safety. For technical assistance or warranty claims, please visit the official Beelink support website or contact their customer service team directly.

Related Documents - MINI S12

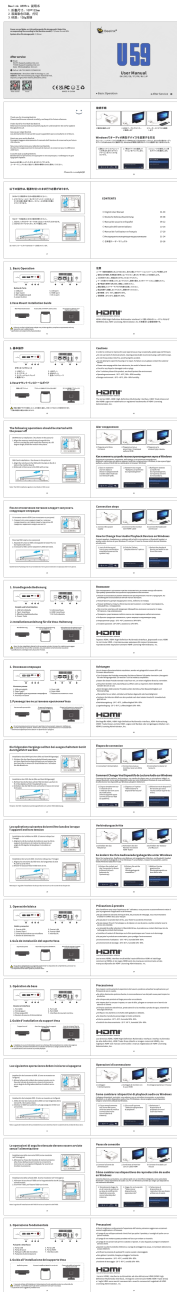


[Beelink MINI S12 Mini PC User Guide and Specifications](#)

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.

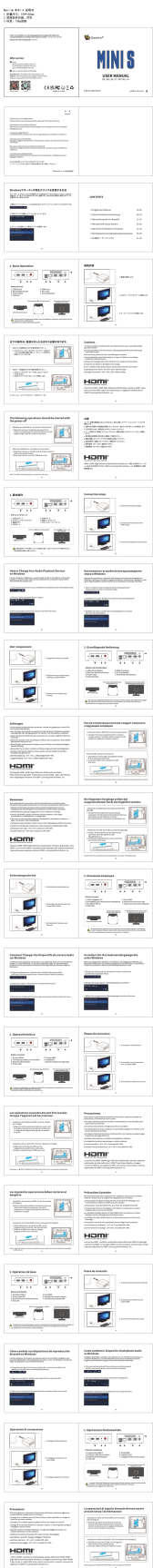


Concise guide for installing a 2.5-inch hard drive and sub-board (A01/B01) onto IPC computers, featuring step-by-step instructions and textual descriptions of diagrams.



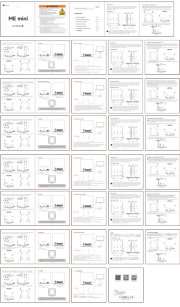
[Beelink U59Pro User Manual - Setup, Operation, and Specifications](#)

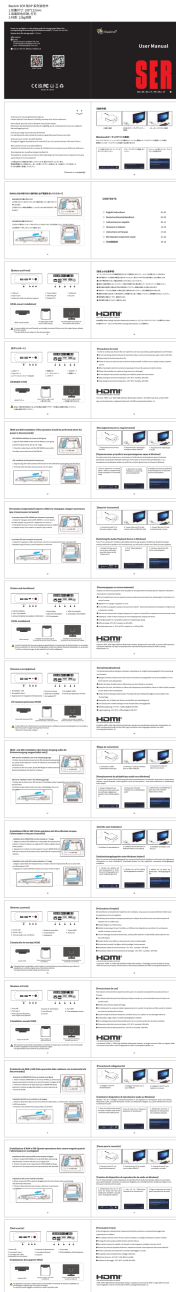
Comprehensive user manual for the Beelink U59Pro mini PC. Covers basic operation, hardware installation (RAM, SSD), VESA mounting, connection steps, Windows audio settings, and important safety precautions. Includes product specifications and HDMI information.



[Beelink Mini S User Manual: Setup, Operation, and Maintenance Guide](#)

Comprehensive user manual for the Beelink Mini S mini PC. Provides detailed instructions on basic operation, connecting peripherals, hardware installation (DDR memory, SSD), managing audio devices in Windows, and important safety precautions.

	<p>Beelink ME Mini PC: SSD Installation Guide and Product Overview</p> <p>Comprehensive guide to installing and replacing SSDs on the Beelink ME Mini PC, detailing interfaces, connections, and product specifications for optimal data management.</p>



[Beelink SER Series Mini PC User Manual](#)

Comprehensive user manual for the Beelink SER series mini PC, covering installation of RAM and SSD, connecting peripherals, configuring audio playback in Windows, VESA mount installation, and important safety precautions. This guide helps users set up and maintain their Beelink mini PC.