

Beelink MINI S12 Pro

Beelink MINI S12 Pro Mini PC Instruction Manual

Model: MINI S12 Pro

1. INTRODUCTION AND OVERVIEW

The Beelink MINI S12 Pro Mini PC is a compact and powerful computing solution designed for various applications, from home entertainment to office productivity. Featuring the 12th Generation Intel N95 processor, it offers efficient performance in a small form factor.



Figure 1: Key features of the Beelink MINI S12 Pro Mini PC.

Key Features:

- **Powerful Performance:** Built-in 12th Generation Intel N95 processor (up to 3.40 GHz, 4C/4T) for quiet and compact computing.
- **Scalability:** 12GB LPDDR5 RAM and 256GB M.2 SSD, with support for M.2 2280 NGFF SSD/2.5" SSD expansion up to 2TB.
- **4K@60Hz Dual Screen Display:** Intel UHD Graphics supports dual HDMI 4K@60Hz displays for enhanced visual

experience and productivity.

- **Stable Connectivity:** Features 1x USB 2.0, 3x USB 3.0 ports, WiFi 2.4G+5G Dual Band, and Bluetooth 4.2.
- **Efficient Cooling:** Silent fan, heat pipe/heat sink, and hard drive cooling cover ensure stable operation.

2. SETUP

This section guides you through the initial setup of your Beelink MINI S12 Pro Mini PC, including connecting peripherals and installing additional storage.

2.1 Unboxing and Initial Connections

Upon unboxing, ensure all components are present. Connect your monitor(s), keyboard, mouse, and power adapter as shown below.



Figure 2: Front and Rear Interface Design of the Mini PC.

The Mini PC features a variety of ports for seamless connectivity:

- **Front Ports:** CLR CMOS button, 2x USB 3.2 Gen2 (10Gbps), Earphone jack, Power button.
- **Rear Ports:** 2x USB 3.2 Gen2 (10Gbps), 2x LAN (2.5G), 2x 4K 60Hz HDMI, DC Power adapter port, Locking slot.

2.2 Hard Drive Installation (HDD/SSD Retrofit)

The Mini PC supports additional 2.5-inch SSD/HDD storage. Follow these steps to install a new drive:

1. Power off the Mini PC and disconnect all cables.
2. Carefully remove the four screws on the bottom cover.
3. Gently open the bottom cover, being mindful of the FPC cable connecting it to the mainboard.
4. Slide your 2.5-inch SSD/HDD into the designated slot on the bottom cover.
5. Secure the drive using the provided screws.
6. Reconnect the FPC cable and reattach the bottom cover, securing it with the four screws.

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Video 1: Detailed tutorial on how to replace or install an SSD in your Beelink Mini PC.

After physical installation, if the new hard disk is not displayed, you may need to initialize and format it through Disk Management in Windows. Refer to the video for detailed instructions on how to make the hard disk displayed by the computer.

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Video 2: This video demonstrates the unboxing, port overview, and HDD installation process for a Beelink U59 Mini PC, which shares similar installation steps.

3. OPERATING INSTRUCTIONS

The Beelink MINI S12 Pro comes pre-installed with Windows 11 Home, providing a familiar and user-friendly operating environment.

3.1 Power On/Off

- **To Power On:** Press the power button located on the front panel.
- **To Power Off:** Use the Windows Start menu to shut down, or press and hold the power button for a few seconds for a forced shutdown (not recommended for regular use).

3.2 Display Configuration

Utilize the dual HDMI ports to connect up to two 4K@60Hz displays for an expansive workspace. Configure display settings via Windows Display Settings.

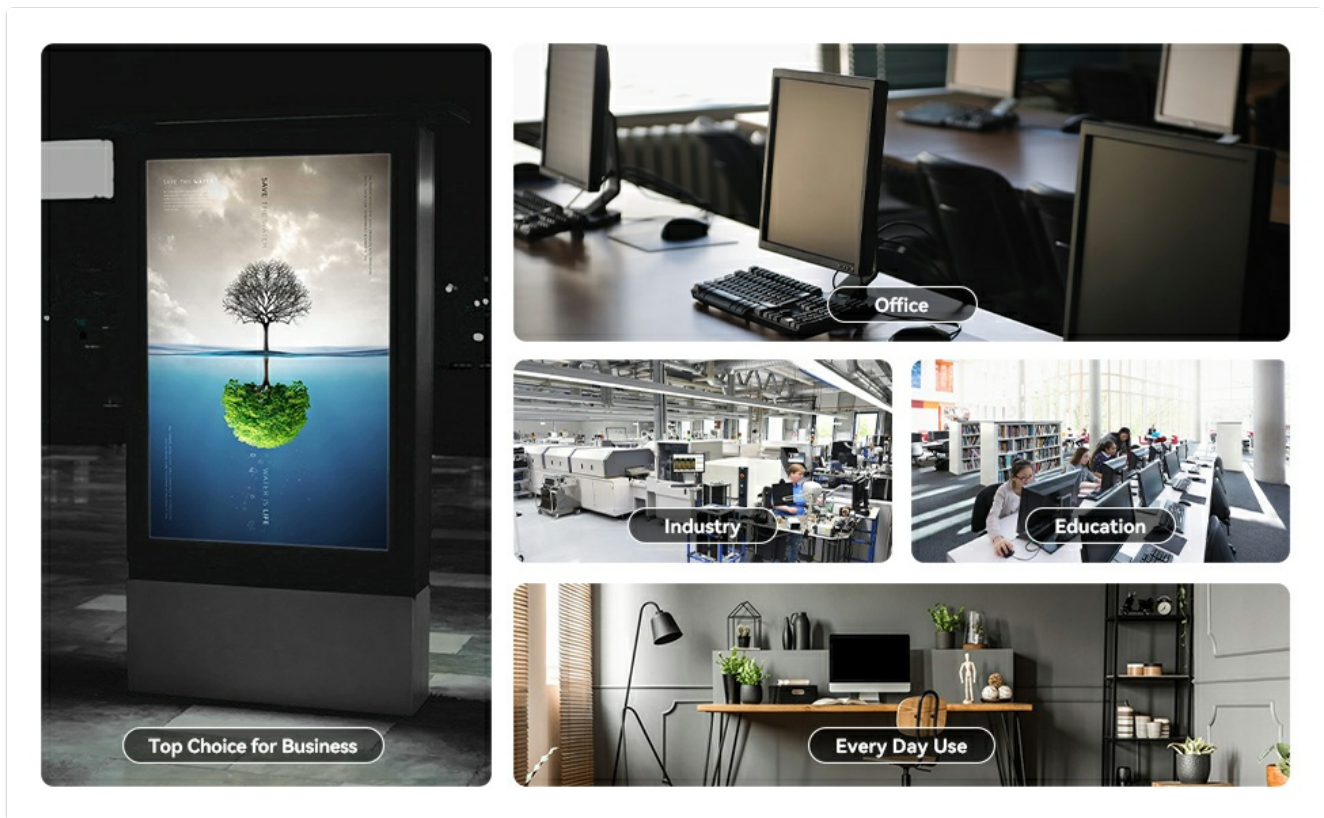


Figure 3: Operational features including dual display support and Wake on LAN.

3.3 Network and Wireless Connectivity

The Mini PC supports both wired and wireless network connections:

- **Wired LAN:** Connect an Ethernet cable to one of the 2.5Gbps LAN ports for high-speed internet access.
- **Wireless (WiFi 2.4G+5G Dual Band):** Connect to your wireless network via the built-in WiFi 6 module. Manage WiFi settings through Windows Network & Internet settings.
- **Bluetooth 4.2:** Pair Bluetooth-enabled devices like keyboards, mice, or headphones through Windows Bluetooth & devices settings.

3.4 Wake on LAN / Auto Power On

The device supports Wake on LAN and Auto Power On features. For detailed setup instructions, please visit the official Beelink website or contact customer service.

4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Mini PC.

4.1 Storage Expansion

You can expand the storage by adding an M.2 2280 NGFF SSD or a 2.5-inch SSD/HDD (up to 2TB). Refer to Section 2.2 for installation instructions.



Figure 4: Dual SSD High-speed Storage options.

4.2 Cooling System

The Mini PC is equipped with an efficient cooling system including a silent fan, heat pipe/heat sink, and a hard drive cooling cover to prevent overheating and ensure stable performance.



Figure 5: Exploded view of the Mini PC's internal components.

5. TROUBLESHOOTING

If you encounter any issues with your Mini PC, please refer to the following common solutions or contact technical support.

- **No Display:** Ensure all display cables are securely connected and the monitor is set to the correct input source.
- **No Power:** Verify the power adapter is correctly connected to the Mini PC and a working power outlet.
- **Slow Performance:** Check for background applications, update drivers, or consider upgrading RAM/SSD if

performance remains consistently low.

- **Hard Drive Not Detected:** After installing a new drive, ensure it is properly seated and initialized/formatted in Disk Management (refer to Section 2.2).
- **Automatic Startup Setup:** If you wish to set up automatic startup, please provide the barcode on the bottom of the machine to customer service for the corresponding tutorial files.

6. SPECIFICATIONS

Feature	Description
Processor	12th Generation Intel N95 (up to 3.40 GHz, 4C/4T)
RAM	12GB LPDDR5
Hard Drive	256GB SSD (M.2 2280 NGFF/2.5" SSD expandable up to 2TB)
Graphics	Intel UHD Graphics (supports 4K@60Hz)
Display Output	2x HDMI (Dual 4K@60Hz Displays)
Connectivity	WiFi 2.4G+5G Dual Band (WiFi 6), Bluetooth 4.2, 2x 2.5Gbps LAN
USB Ports	1x USB 2.0, 3x USB 3.0
Operating System	Windows 11 Home
Dimensions	8.39 x 5.04 x 2.52 inches
Weight	1.45 pounds

7. WHAT'S IN THE BOX

The Beelink MINI S12 Pro Mini PC package includes the following items:

- Beelink MINI S12 Pro Mini PC
- Power Adapter (12V 3A)
- HDMI Cables
- Wall-mounted bracket
- Screws for installation
- User Manual

Accessories



1.User manual



2.Wall-mounted bracket



3.HDMI cables

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

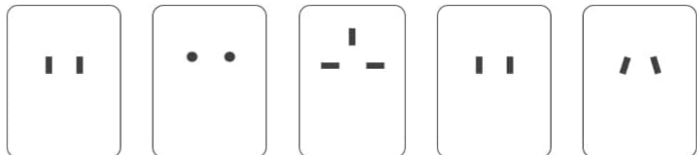


Figure 6: Contents of the Beelink MINI S12 Pro Mini PC package.

8. WARRANTY AND SUPPORT

All Beelink products are FCC, CE, and ROHS certified. We offer a 1-year free warranty and 7 days/24 hours customer service. For any technical issues, please email our customer service team. Lifetime technical assistance is provided.