Beelink SER12-1235U

Beelink SEi12 Mini PC Instruction Manual

Model: SEi12 | Brand: Beelink

1. INTRODUCTION

The Beelink SEi12 Mini PC is a compact and powerful desktop computer designed for various applications, from business and design work to 4K video viewing and high-end gaming. It features the Intel 12th Gen i5-1235U processor, high-speed DDR4 RAM, and a PCIe 4.0 M.2 SSD for exceptional responsiveness and performance. Its small form factor and versatile connectivity options make it an ideal solution for a clean and uncluttered workspace.

2. WHAT'S IN THE BOX

Upon opening your Beelink SEi12 Mini PC package, you should find the following items:

- Beelink SEi12 Mini PC Unit
- Power Adapter
- HDMI Cable (x2)
- VESA Mount Bracket
- User Manual

Accessories

1.User manual

2.Wall-mounted bracket
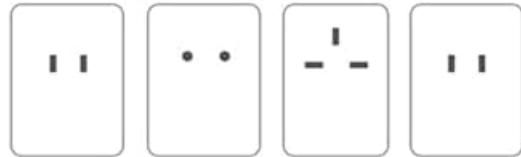
3.HDMI cables

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

Figure 2.1: Package contents of the Beelink SEi12 Mini PC. The image displays the mini PC unit, power adapter, two HDMI cables, a VESA mount, and the user manual.

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Video 2.1: An unboxing video demonstrating the package contents of the Beelink SEi12 Mini PC, including the main unit and all accessories.

3. PRODUCT OVERVIEW

The Beelink SEi12 Mini PC features a compact design with a durable metal case and a fabric mesh finish on the top. It is designed for efficient heat dissipation and offers a variety of ports for connectivity.

Front Panel Ports

- **CLR CMOS Button:** Used to clear CMOS settings.
- **USB 3.0 Ports (x2):** For connecting high-speed USB devices.
- **Type-C Port (x1):** Versatile port for data transfer and display output.
- **Headphone Jack (x1):** For audio output.
- **Power Button (x1):** To power on/off the device.

Rear Panel Ports

- **LAN (1000M) Port (x1):** For wired network connection.
- **USB 2.0 Ports (x2):** For connecting standard USB devices.
- **HDMI Ports (x2):** Supports 4K@60Hz display output.
- **DC Power Input (x1):** For connecting the power adapter.
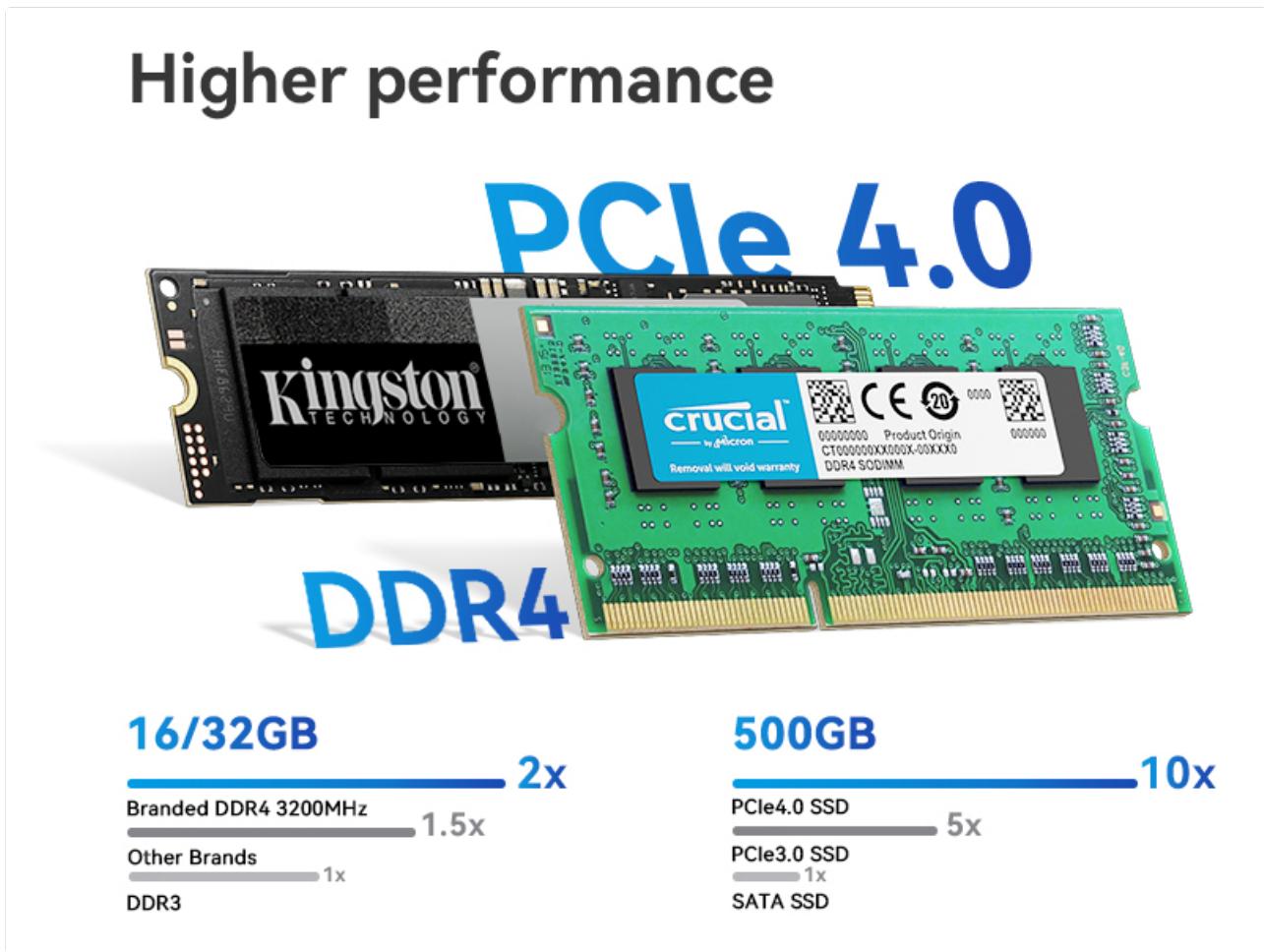
Figure 3.1: Detailed view of the front and rear interfaces of the Beelink SEi12 Mini PC, highlighting USB 3.0, Type-C, headphone jack, power button, LAN, USB 2.0, HDMI, and DC power input.

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Video 3.1: An introduction to the port functions of the Beelink SEi12 Mini PC, demonstrating the various connectivity options available on the device.

4. SETUP INSTRUCTIONS

1. **Connect to Power:** Plug the power adapter into the DC power input port on the rear of the Mini PC, then plug

the adapter into a power outlet.

2. **Connect to Display:** Use one or both HDMI cables to connect the Mini PC to your monitor(s) or TV. The Mini PC supports dual 4K@60Hz displays.

3. **Connect Peripherals:** Connect your keyboard, mouse, and any other USB devices to the available USB 3.0 or USB 2.0 ports.

4. **Network Connection:** For a wired connection, plug an Ethernet cable into the LAN port. For wireless, the device supports Wi-Fi 6.

5. **Power On:** Press the power button on the front panel to turn on the Mini PC.

6. **Initial Windows Setup:** Follow the on-screen instructions to complete the Windows 11 Pro setup. This includes selecting your region, language, and creating a user account.

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Video 4.1: A video guide on how to install Windows 10 from a USB drive, which can be adapted for initial setup of Windows 11 Pro on your Beelink Mini PC.

5. OPERATING INSTRUCTIONS

The Beelink SEi12 Mini PC comes pre-installed with Windows 11 Pro, offering a familiar and user-friendly operating environment. Once set up, you can use it like any standard desktop computer.

- **Basic Operation:** Navigate Windows using your connected mouse and keyboard. Access applications from the Start Menu.

- **Multi-Display Setup:** Connect up to two 4K monitors via the HDMI ports for an extended desktop experience. The Type-C port also supports display output for a potential triple display setup.

- **Wireless Connectivity:** Utilize Wi-Fi 6 for high-speed internet access and Bluetooth 5.2 for connecting wireless peripherals like headphones or speakers.

- **Storage Expansion:** The Mini PC supports up to 64GB DDR4 RAM and up to 2TB for 2.5-inch SATA3 HDD/M.2 SATA3 SSD 2280 (not included) for additional storage.

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Video 5.1: A demonstration of the Beelink SEi12 Mini PC's 4K video picture quality, showcasing its capability for high-resolution media playback.

6. PERFORMANCE OVERVIEW

The Beelink SEi12 Mini PC is engineered for robust performance across various tasks, from demanding applications to multimedia consumption.

Processor (CPU)

Equipped with the **Intel 12th Gen i5-1235U processor** (10 Cores/12 Threads, 12M Cache, up to 4.4GHz), the SEi12 delivers significant performance improvements, making it suitable for multitasking, video editing, and other intensive applications.

Figure 6.1: CPU performance comparison between Intel Core i5-1235U and Intel Core i7-1165G7, illustrating the i5-1235U's superior performance in rendering and encoding tasks.

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Video 6.1: A video detailing the CPU benchmark results for the Beelink SEi12 Mini PC with the Intel i5-1235U processor.

Graphics (GPU)

The integrated **Intel Iris Xe Graphics** (1.2Ghz) supports 4K@60fps triple display output, providing vivid colors and lifelike images for multimedia and casual gaming.

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Video 6.2: A gaming performance test video for the Beelink SEi12 Mini PC, demonstrating its capabilities with various games.

Memory (RAM) and Storage (SSD)

The Mini PC comes with **32GB DDR4 RAM** (Max 3200Mhz, upgradable to 64GB) and a **500GB PCIe 4.0 M.2 SSD** with reading speeds up to 3500MB/s, ensuring fast boot times and application loading.

Accessories
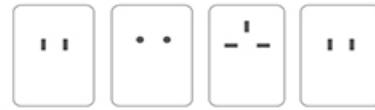
1. User manual
2. Wall-mounted bracket
3. HDMI cables
4. Power adapter (Optional: US /EU / UK/JP)

Figure 6.2: Illustration of the high-performance PCIe 4.0 SSD and DDR4 RAM components, highlighting their speed advantages.

Cooling System

The SEi12 features an **upgraded dual-fan cooling system** with independent CPU cooling and an upgraded hard disk fan for mute performance, maximizing cooling efficiency and improving overall performance by 19% compared to general cooling solutions.

Figure 6.3: Exploded diagram of the Beelink SEi12 Mini PC, illustrating the internal layout and the upgraded dual-fan cooling system designed for efficient heat dissipation from the CPU, SSD, and RAM.

7. USAGE SCENARIOS

The Beelink SEi12 Mini PC is versatile and suitable for a wide range of applications:

- **Office Work:** Efficiently handle daily office tasks, presentations, and document management.
- **Home Entertainment:** Enjoy 4K video streaming, web browsing, and connect to your TV as a home theater PC.
- **Creative Tasks:** Capable of handling photo and video editing, graphic design, and music production.
- **Light Gaming:** Play a variety of high-end games with smooth performance.
- **Business & Enterprise:** Ideal for enterprise servers, industrial applications, and virtualized environments.

Figure 7.1: The Beelink SEi12 Mini PC is ideal for various applications, including creative software and office suites.

Figure 7.2: Enjoy your home life with the Beelink SEi12 Mini PC, perfect for streaming and multimedia.

8. MAINTENANCE

To ensure the longevity and optimal performance of your Beelink SEi12 Mini PC, regular maintenance is recommended:

- **Keep Clean:** Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation grilles are free from dust and obstructions to maintain proper airflow.

- **Software Updates:** Keep your Windows operating system and drivers updated to the latest versions to benefit from performance improvements and security patches.

- **Avoid Extreme Conditions:** Do not expose the Mini PC to extreme temperatures, humidity, or direct sunlight.

- **Safe Shutdown:** Always shut down the Mini PC properly through the operating system to prevent data corruption.

9. TROUBLESHOOTING

If you encounter issues with your Beelink SEi12 Mini PC, consider the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet if necessary.

- **No Display:** Verify that HDMI cables are properly connected to both the Mini PC and the monitor. Check if the monitor is set to the correct input source.

- **Peripheral Issues:** If a keyboard, mouse, or other USB device is not working, try connecting it to a different USB port or restarting the Mini PC.

- **Network Connectivity:** For wired connections, check the Ethernet cable and router. For Wi-Fi, ensure the network is available and the password is correct.

- **System Unresponsive:** If the system freezes, press and hold the power button for 5-10 seconds to force a shutdown, then restart.

For more complex issues, refer to the "Warranty and Support" section for contact information.

10. Specifications

Feature	Detail
Processor	Intel 12th Gen Core i5-1235U (10C/12T, up to 4.4GHz)
Graphics	Intel Iris Xe Graphics (1.2Ghz)
RAM	32GB DDR4 (Max 3200Mhz, upgradable to 64GB)
Storage	500GB PCIe 4.0 M.2 SSD 2280 (Supports up to 2TB)
Operating System	Windows 11 Pro (compatible with Windows 10 Pro)
Wireless Connectivity	Wi-Fi 6 (802.11ax) Dual Band 2.4 & 5GHz, Bluetooth 5.2
Ports	2x HDMI 2.0 (4K@60Hz), 1x Type-C, 2x USB 3.0, 2x USB 2.0, 1x Gigabit Ethernet LAN, 1x Headphone Jack
Display Output	Triple Display (2x HDMI + 1x Type-C), 4K@60Hz
Dimensions	4.96 x 4.45 x 1.65 inches
Weight	2.88 pounds
Color	Navy Blue

11. Warranty and Support

Beelink provides comprehensive customer support for its products. Your Beelink SEi12 Mini PC comes with a **one-year warranty**. For any inquiries, technical assistance, or after-sales service, please follow the steps below:

1. **Contacting Beelink USA Support:**

   - Log in to your Amazon account.
   - Go to "Your Account" then "Your Orders".
   - Locate your Beelink SEi12 Mini PC order.
   - Click on "Ask Product Question" to send a message to the seller.

2. **Online Resources:** Refer to the official Beelink website for additional FAQs, driver downloads, and support documentation.

Figure 11.1: Steps to contact Beelink USA after-sales service through Amazon.

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Video 11.1: A video explaining how to contact the Beelink mini PC consulting and after-sales service team.