

ASUS PN63-S1-BB3000XFD

ASUS PN63-S1 Mini PC User Manual

Comprehensive guide for setup, operation, and maintenance of your ASUS PN63-S1 Mini PC.

INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and operation of your ASUS PN63-S1 Mini PC.

Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

The ASUS PN63-S1 is a compact and powerful barebone mini PC designed for various computing needs, featuring advanced thermal management for stable performance.

WHAT'S IN THE BOX

Verify that all items are present and in good condition upon unboxing:

- ASUS PN63-S1-BB3000XFD Mini PC Unit
- Power Cord
- VESA Mount Kit

Note: As a barebone unit, RAM, storage drives (HDD/SSD), and an operating system are not included and must be purchased separately.

SETUP GUIDE

Follow these steps to set up your ASUS PN63-S1 Mini PC:

1. Installing Components (RAM and Storage)

Before powering on, you must install compatible RAM and storage drives. The PN63-S1 supports up to 64GB DDR4 RAM and features a triple-storage design with a 2.5-inch HDD bay and two M.2 SSD slots (up to PCIe Gen 4x4).

- Carefully open the chassis according to the instructions provided in the quick start guide (not included in this manual).
- Insert DDR4 SO-DIMM modules into the memory slots until they click into place.
- Install M.2 SSDs into the designated slots and secure them with screws.
- If using a 2.5-inch HDD/SSD, mount it in the drive bay and connect the necessary cables.
- Close the chassis securely.

2. Connecting Peripherals

Connect your display, keyboard, mouse, and other necessary peripherals.

- Display:** Connect your monitor(s) to the HDMI, DisplayPort, or mini DisplayPort 1.2 outputs. The unit supports up to three 4K displays simultaneously.

- **USB Devices:** Connect your keyboard, mouse, and other USB devices to the available USB 3.0 ports or the USB-C port.
- **Network:** For wired internet, connect an Ethernet cable to the LAN port. For wireless, ensure your WiFi 6 and Bluetooth devices are ready for pairing.
- **Audio:** Connect speakers or headphones to the audio jack.



Image: Front and side view of the ASUS PN63-S1 Mini PC, highlighting its compact design and various ports including USB-C, USB-A, and audio jack on the front. The side features a textured finish.

3. Power Connection and Initial Boot

1. Connect the power cord to the Mini PC and then to a power outlet.
2. Press the power button located on the front panel.
3. Follow the on-screen prompts to install your preferred operating system (e.g., Linux, Windows) and drivers.

OPERATING YOUR MINI PC

The ASUS PN63-S1 is designed for efficient and versatile operation. Here are some key operational aspects:

Key Features and Performance

- **Processor:** Powered by Intel Core i3-1115G4 processors with integrated graphics, offering robust performance for daily tasks and multimedia.
- **Memory:** Supports high-speed DDR4 3200MHz memory up to 64GB, enabling smooth multitasking.
- **Storage:** Flexible triple-storage design allows for a 2.5-inch HDD and two M.2 SSDs (PCIe Gen 4x4), providing ample and fast storage options.
- **Display Support:** Capable of supporting up to three 4K displays simultaneously via HDMI, DisplayPort, and mini DisplayPort 1.2, ideal for multi-monitor setups.
- **Connectivity:** Features WiFi 6 for high-speed wireless networking, Bluetooth for peripheral connections, and multiple USB 3.0 and USB-C ports for versatile connectivity.
- **Compact Design:** With a 0.9-liter volume, this Mini PC is a space-saving solution suitable for various environments.

Power Management

To power on the device, press the power button on the front panel. To shut down, use the operating system's shutdown function. A short press of the power button can put the system to sleep, while a long press (4 seconds) will force a shutdown.

MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your ASUS PN63-S1 Mini PC.

Cleaning

- Regularly clean the exterior with a soft, dry cloth.
- Use compressed air to clear dust from ventilation openings. Ensure the system is powered off and unplugged before cleaning.
- Avoid using liquid cleaners or abrasive materials directly on the unit.

Thermal Management

The PN63-S1 features a unique cooling system with a large fan, a new thermal module with a heat pipe, and an aluminum heatsink. To ensure efficient heat dissipation:

- Place the Mini PC in a well-ventilated area.
- Do not block the ventilation openings.
- Avoid operating the device in direct sunlight or near heat sources.

Software Updates

Keep your operating system and drivers updated to ensure system stability, security, and optimal performance. Refer to your operating system's documentation for update procedures.

TROUBLESHOOTING

This section addresses common issues you might encounter with your ASUS PN63-S1 Mini PC.

No Power

- Ensure the power cord is securely connected to both the Mini PC and the power outlet.
- Verify the power outlet is functional by plugging in another device.
- Check the power adapter for any visible damage.

No Display Output

- Confirm that the monitor is powered on and the correct input source is selected.
- Check the display cables (HDMI, DisplayPort, mini DisplayPort) for secure connections at both ends.
- Try connecting to a different display or using a different cable to isolate the issue.
- Ensure RAM modules are properly seated.

System Not Booting / OS Issues

- Verify that the storage drives (SSD/HDD) are correctly installed and detected in the BIOS/UEFI settings.
- Ensure your operating system installation media is bootable and correctly configured.
- If the OS was previously installed, check boot order in BIOS/UEFI.

Peripheral Not Detected

- Try connecting the peripheral to a different USB port.
- Ensure the peripheral's drivers are installed correctly in your operating system.
- Test the peripheral on another computer to confirm its functionality.

TECHNICAL SPECIFICATIONS

| Feature | Specification |
|-----------------------|--|
| Brand | ASUS |
| Model Number | PN63-S1-BB3000XFD |
| Processor | Intel Core i3-1115G4 (1.7 GHz, up to 4.1 GHz) |
| Graphics Coprocessor | Integrated Graphics |
| Memory Type | DDR4 SDRAM |
| Max Memory Capacity | 64 GB (2 slots) |
| Memory Speed | 3200 MHz |
| Storage Support | Triple-storage design: 2.5-inch HDD/SSD, two M.2 SSDs (PCIe Gen 4x4) |
| Wireless Connectivity | 802.11ax (WiFi 6), Bluetooth |
| USB Ports | 4 x USB 3.0, USB-C |
| Video Output | HDMI, DisplayPort, mini DisplayPort 1.2 (supports up to 3 x 4K displays) |
| Operating System | Barebone (Linux compatible) |
| Dimensions (LxWxH) | 4.7 x 5.1 x 2.28 inches |
| Item Weight | 3.4 pounds |
| Color | Black |

WARRANTY AND SUPPORT

ASUS provides a standard limited warranty for its products. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official ASUS support website.

For technical support, driver downloads, FAQs, and service inquiries, please visit the official ASUS support portal:

ASUS Official Support

When contacting support, please have your product model number (PN63-S1-BB3000XFD) and serial number ready.