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MINISFORUM NAB9S

MINISFORUM NAB9S Mini PC User Manual

Model: NAB9S

1. Introduction

The MINISFORUM NAB9S Mini PC is a high-performance compact computer designed for various tasks, from office work to content creation. It features an Intel Core i9-13900HK processor, dual 2.5GbE LAN, and supports quad 4K display output. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.

Image 1.1: The MINISFORUM NAB9S Mini PC, showcasing its compact design.

2. Package Contents

Before proceeding with the setup, please verify that all items listed below are included in your package:

- NAB9S Mini PC
- Power Adapter
- Power Cable
- Wall Mount
- Mounting Screw Set
- HDMI Cable
- SATA Cable
- User Manual (this document)

Image 2.1: Visual representation of the MINISFORUM NAB9S Mini PC package contents.

3. Physical Overview

Familiarize yourself with the ports and features of your MINISFORUM NAB9S Mini PC.

Image 3.1: Front and rear port layout of the NAB9S Mini PC.

Front Panel Ports:

- **DMIC:** Digital Microphone input.
- **USB 3.2 Gen 2 Type-A x2:** High-speed USB ports for peripherals.
- **3.5mm Audio Jack:** For headphones or speakers.
- **Power Button:** To power on/off the device.
- **Clear CMOS:** Button to reset BIOS settings.

Rear Panel Ports:

- **USB Type A (USB 3.2 Gen 2) x2:** Additional high-speed USB ports.
- **HDMI x2:** For connecting displays.
- **2.5 Gigabit LAN (RJ45) x2:** Dual Ethernet ports for high-speed network connections.
- **USB 3.2 Type-C (DP Only):** USB-C port for DisplayPort video output.
- **USB 3.2 Type-C (Alt DP+Data+PD):** Full-featured USB-C port supporting DisplayPort, data transfer, and Power Delivery.
- **DC 19V:** Power input port.

4. Setup Guide

Follow these steps to set up your MINISFORUM NAB9S Mini PC.

4.1 Unboxing and Initial Inspection

Carefully remove all components from the packaging. Inspect the Mini PC and accessories for any signs of damage. It is recommended to keep the original packaging for future transport or service needs.

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Video 4.1: An unboxing video demonstrating the contents and initial handling of the MINISFORUM NAB9S Mini PC.

4.2 Connecting Peripherals

1. **Connect Display:** Use the provided HDMI cable or a USB-C cable to connect your monitor(s) to the HDMI or USB-C video output ports on the rear panel. The device supports up to four displays simultaneously.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any available USB Type-A ports on the front or rear panel.
3. **Connect Network (Optional):** For a wired connection, connect an Ethernet cable from your router or modem to one of the 2.5 Gigabit LAN ports on the rear panel. For wireless, ensure your Wi-Fi network is available.
4. **Connect Power:** Plug the power adapter into the DC 19V port on the rear panel, then connect the power cable to an electrical outlet.

4.3 Powering On

Press the power button located on the front panel. The power indicator light will illuminate, and the system will begin to boot up. Follow the on-screen instructions for initial operating system setup if this is the first time powering on.

5. Operating Instructions

5.1 Basic Operation

Once powered on, the Mini PC operates like a standard desktop computer. Use your connected keyboard and mouse to navigate the operating system. Ensure all drivers are installed for optimal performance.

5.2 Quad Display Setup

The NAB9S Mini PC supports up to four independent 4K@60Hz displays via its dual HDMI and dual USB-C video output ports. To configure multiple displays:

1. Connect your monitors to the available HDMI and USB-C video output ports.
2. Once connected, the operating system should automatically detect the new displays.
3. Navigate to your display settings (e.g., Windows Display Settings) to arrange the displays, set resolutions, and choose display modes (extend, duplicate, or show only on one).

Image 5.1: The Mini PC supporting a quad monitor setup for enhanced productivity.

Image 5.2: Demonstrating a productive workspace with four screens powered by the Mini PC.

5.3 Network Connectivity

The NAB9S offers versatile network options:

- **Wired Connection:** Utilize the dual 2.5 Gigabit Ethernet ports for high-speed, stable wired network access. This is ideal for demanding applications like file servers or network aggregation.
- **Wireless Connection:** The Mini PC supports dual-band Wi-Fi 6 and Bluetooth 5.2, providing robust and stable wireless connectivity for internet access and peripheral connections.

Image 5.3: The dual 2.5Gbps LAN ports providing high-speed wired network options.

Image 5.4: Illustrating the high-speed wireless connectivity features (Wi-Fi 6 and Bluetooth 5.2).

6. Maintenance and Upgrades

The MINISFORUM NAB9S is designed for easy maintenance and upgrades.

6.1 Tool-Free Access

The top cover of the Mini PC can be removed without tools, allowing for convenient access to internal components for upgrades or maintenance.

Image 6.1: The easy-open lid design for tool-free access to internal components.

6.2 Memory (RAM) Upgrade

The Mini PC features dual DDR4 SO-DIMM memory slots, supporting up to 32GB of RAM. To upgrade:

1. Power off the device and disconnect all cables.
2. Remove the top cover.

3. Locate the DDR4 SO-DIMM slots. Gently push the clips outwards to release the existing RAM modules, or insert new modules at an angle and push down until the clips secure them.
4. Replace the top cover.

Image 6.2: Location of the DDR4 memory slots for upgrades.

6.3 Storage Expansion

The NAB9S supports dual storage expansion:

- **M.2 PCIe 4.0 NVMe SSD:** One M.2 2280 slot is available for high-speed NVMe SSDs (up to 2TB).
- **2.5-inch SATA SSD/HDD:** One 2.5-inch SATA slot is available for additional storage (SATA 3.0 6.0Gb/s).

To install or upgrade storage:

1. Power off the device and disconnect all cables.
2. Remove the top cover.
3. Locate the M.2 slot or the 2.5-inch drive bay. Install your desired storage device and secure it.
4. Replace the top cover.

Image 6.3: Internal view highlighting the M.2 NVMe SSD and 2.5-inch SATA drive expansion options.

Image 6.4: Detail of the PCIe 4.0 M.2 storage slot.

6.4 Cooling System

The NAB9S features an optimized cooling system with dual heat pipes, dual airflow channels, active SSD cooling, and dual-side ventilation. This design ensures stable performance even under heavy workloads. Regular cleaning of dust from the vents is recommended to maintain optimal airflow.

Image 6.5: Illustration of the advanced airway and cooling design.

7. Specifications

Detailed technical specifications for the MINISFORUM NAB9S Mini PC.

Image 7.1: Key features of the 13th Gen Intel Processor and system architecture.

Image 7.2: Performance metrics and core count for the Intel Core i9-13900HK.

Feature	Specification
Brand	MINISFORUM
Model	NAB9S

Feature	Specification
Processor	Intel Core i9-13900HK (14 Cores, 20 Threads, up to 5.4GHz)
Graphics	Intel Iris Xe Graphics (Integrated)
RAM	16GB DDR4 (2x SO-DIMM slots, Max 32GB)
Storage	500GB PCIe 4.0 NVMe SSD (1x M.2 2280 slot, up to 2TB); 1x 2.5-inch SATA SSD/HDD slot
Video Output	2x HDMI (4K@60Hz), 2x USB-C (4K@60Hz, DP Alt Mode)
LAN	2x 2.5 Gigabit Ethernet (RJ45)
Wireless Connectivity	Wi-Fi 6, Bluetooth 5.2
USB Ports	4x USB 3.2 Gen 2 Type-A, 2x USB 3.2 Type-C (DP Only, Alt DP+Data+PD)
Audio	3.5mm Combo Audio Jack
Cooling	Dual heat pipes, dual airflow channels, active SSD cooling
Operating System	OS (Pre-installed or user-installable)
Dimensions	Approx. 127.5mm x 127mm x 54.7mm

8. Troubleshooting

This section addresses common issues you might encounter with your Mini PC.

8.1 No Power

- Ensure the power adapter is securely connected to the Mini PC and the power outlet.
- Verify the power outlet is functional by plugging in another device.
- Try a different power outlet if available.

8.2 No Display Output

- Check that the HDMI or USB-C cable is firmly connected to both the Mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source.
- Try a different display cable or monitor if possible.
- If using multiple displays, try connecting only one display to isolate the issue.

8.3 No Internet Connection

- **Wired:** Check the Ethernet cable connection to both the Mini PC and your router/modem. Verify your router/modem is working correctly.
- **Wireless:** Ensure Wi-Fi is enabled in your operating system settings. Check if the correct Wi-Fi network is selected and the password is entered correctly. Restart your router/modem.

8.4 System Slowdown or Freezing

- Close unnecessary applications running in the background.
- Check for sufficient free storage space on your primary drive.
- Ensure the cooling vents are not obstructed and the device is in a well-ventilated area.

- Update your operating system and drivers to the latest versions.

8.5 BIOS Reset

If you encounter issues related to system boot or settings, you can reset the BIOS to default settings using the Clear CMOS button on the front panel. Refer to the physical overview for its location.

9. Warranty and Support

9.1 Warranty Information

The MINISFORUM NAB9S Mini PC typically comes with a**2-year limited warranty** from the date of purchase. This warranty covers manufacturing defects and hardware malfunctions under normal use. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty card included in your package or visit the official MINISFORUM website.

9.2 Technical Support

For technical assistance, driver downloads, or further inquiries, please visit the official MINISFORUM support website or contact their customer service. You can find more information and contact details on the MINISFORUM Store on Amazon or their official brand website.

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