

[Manuals.plus](#) /

› [HIGOLE PC](#) /

› HIGOLEPC Mini PC F9B Screen User Manual

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HIGOLEPC Mini PC F9B Screen User Manual

Model: F9B Screen | Brand: HIGOLE PC

1. PRODUCT OVERVIEW

The HIGOLEPC Mini PC F9B Screen is a compact and powerful desktop computer designed for various applications, from home office tasks to industrial IoT solutions. It features a 7-inch integrated display, a 12th Gen Intel Alder Lake-N100 processor, ample memory and storage, and versatile connectivity options including dual 2.5GbE LAN and 4G data transmission capabilities.



Figure 1.1: HIGOLEPC Mini PC F9B Screen, showcasing its compact design and integrated display.

Key Features:

- **Processor:** 12th Gen Intel Alder Lake-N100 (4 Cores, 4 Threads, up to 3.4GHz) for enhanced performance and low power consumption.
- **Memory & Storage:** 16GB DDR4 RAM and 256GB ROM (expandable via Micro SD card up to 512GB).
- **Display:** Integrated 7-inch screen (1280x800 pixels) and support for triple video display via HDMI and full-functional USB-C (4K@60Hz).
- **Connectivity:** Dual 2.5G Ethernet, Wi-Fi 5, Bluetooth 5.0, and 4G data transmission support.
- **Operating System:** Pre-installed Windows 11 Pro, with support for Debian, Ubuntu, and Linux.
- **Battery:** Built-in 5000mAh battery for portable use (up to 3 hours).

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- 1 x HIGOLEPC Mini PC (F9B Screen)
- 1 x Power Adapter
- 1 x User Manual (this document)

3. SETUP GUIDE

3.1 Initial Power On

1. Connect the power adapter to the DC 12V port on the Mini PC and plug it into a power outlet.
2. Press the Power On/Off button located on the side of the device. The integrated screen will light up, and the system will begin to boot.
3. Follow the on-screen instructions to complete the initial Windows setup, including language, region, and network settings.

3.2 Connecting Peripherals

The Mini PC offers various ports for connecting external devices:

- **USB Ports:** Connect a USB keyboard, mouse, external hard drive, or other USB devices to the available USB 2.0 or USB 3.2 ports.
- **HDMI Port:** Connect an external monitor or TV using an HDMI cable to the HDMI 1.2 port for extended or mirrored display.
- **USB-C Port:** The full-functional USB-C port supports 4K display output, data transfer, and power input (PD 3.1). Use a compatible USB-C cable for these functions.
- **LAN Ports:** Connect to a wired network using an Ethernet cable to either of the dual 2.5G LAN (RJ45) ports.
- **Microphone Jack:** Connect headphones or an external microphone to the 3.5mm microphone jack.
- **Micro SD Card Slot:** Insert a Micro SD card (up to 512GB) for additional storage.

Multiple Device Connection

11 Ports Design

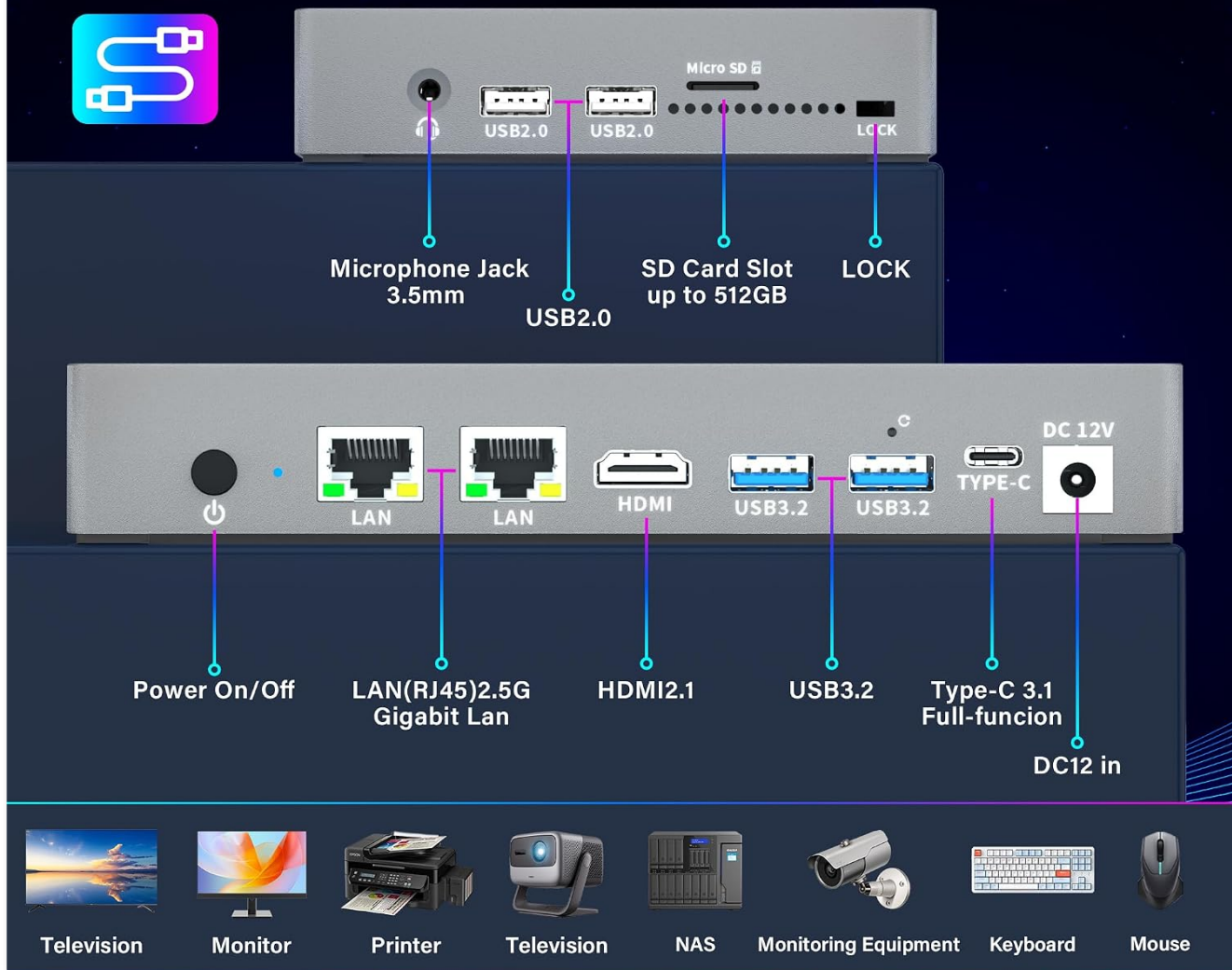


Figure 3.1: Overview of available ports for connecting external devices.

3.3 4G SIM Card Installation

The Mini PC supports 4G data transmission. Follow these steps to install a SIM card:

1. **Power Off the Device:** Before inserting the SIM card, ensure the Mini PC is completely shut down. Go to the Start Menu, click the Power icon, and select "Shut down."
2. **Prepare SIM Card:** Obtain a 4G SIM card compatible with your country's network. Place the SIM card into the provided SIM card frame.
3. **Insert SIM Card:** Locate the SIM slot on the side of the Mini PC. Insert the SIM card (with the chip facing down and the notched side facing out) into the slot until it clicks into place.
4. **Restart Device:** Power on the Mini PC. The system will detect the inserted SIM card, and carrier information will be displayed in the network settings.

Your browser does not support the video tag.

Video 3.1: This video demonstrates the correct procedure for installing a 4G SIM card into the HIGOLEPC Mini PC F9B Screen, including the necessary step of powering off the device before insertion and verifying successful detection.

4. OPERATING INSTRUCTIONS

4.1 Network Connectivity

- **Wi-Fi:** To connect to a Wi-Fi network, click the network icon in the system tray, select your desired network, enter the password, and click Connect.
- **Ethernet:** For a stable wired connection, plug an Ethernet cable into one of the 2.5G LAN ports. The system will automatically detect and connect to the network.
- **4G Data:** After successful SIM card installation, the 4G network will be available. Manage cellular connections through the network settings. Note that this functionality is for data transmission only and does not support calling features.

2-port 2.5G Ethernet, RJ45 gigabit network

Compatible with 10/100/1000Mbps devices

Read-write Speed



Transmission Speed



Figure 4.1: Dual 2.5G Ethernet ports provide high-speed network connectivity.

4.2 Display Management

The Mini PC supports up to three displays simultaneously:

- **Integrated Screen:** The 7-inch screen is the primary display.
- **HDMI Output:** Connect an external monitor via the HDMI port.
- **USB-C Display:** Use the full-functional USB-C port to connect another external display.
- To configure display settings (extend, duplicate, or second screen only), right-click on the desktop and select "Display settings" or press Windows key + P.



Figure 4.2: The Mini PC supports a triple-screen display setup for enhanced productivity.

4.3 Battery Usage

The built-in 5000mAh battery provides portability. To maximize battery life:

- Adjust screen brightness to a comfortable level.
- Enable Battery Saver mode in Windows settings when battery is low.
- Close unnecessary applications running in the background.
- For optimal charging, use the included power adapter. The USB-C port also supports power input.



Figure 4.3: The 5000mAh battery provides extended usage time.

5. MAINTENANCE

5.1 Cleaning

- Use a soft, dry cloth to clean the exterior of the Mini PC.
- For the screen, use a microfiber cloth specifically designed for electronics. Avoid harsh chemicals.
- Ensure ventilation openings are clear of dust and debris to maintain proper airflow.

5.2 Software Updates

Regularly update your operating system and drivers to ensure optimal performance and security. Windows updates can be managed through the Settings app.

5.3 Heat Management

The Mini PC features a cooling fan to dissipate heat. To ensure efficient cooling:

- Operate the device on a flat, stable surface that allows for proper ventilation.
- Avoid blocking the air vents.
- While the fan is designed for quiet operation, some noise may be present during heavy workloads.

Quiet Fan Directional Cooling System

High-reliability and Powerful Heat Dissipation



Figure 5.1: The Mini PC incorporates a quiet fan for effective heat dissipation.

6. TROUBLESHOOTING

- **Device not powering on:**

- Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- Check if the power outlet is functional.

- **No display on external monitor:**

- Verify that the HDMI or USB-C cable is securely connected to both the Mini PC and the monitor.
- Ensure the monitor is set to the correct input source.
- Try pressing Windows key + P to cycle through display modes.

- **No 4G network connection:**

- Confirm the SIM card is correctly inserted (refer to Section 3.3).
- Ensure the device was powered off before SIM card insertion.
- Check cellular settings in Windows to ensure the 4G module is enabled and connected.
- Verify that your SIM card has an active data plan and good signal strength in your area.

- **Fan noise is loud:**

- Ensure the Mini PC is placed on a hard, flat surface to allow for proper airflow.
- Clean any dust from the ventilation openings.
- High CPU usage can cause the fan to run faster; close unnecessary applications.

- **System is slow or unresponsive:**

- Close any applications that are not in use.
- Check Task Manager for processes consuming high CPU or RAM.
- Ensure the operating system is up to date.
- Consider running a disk cleanup or defragmentation.

7. SPECIFICATIONS

Feature	Specification
Model Name	F9B Screen
Processor	12th Gen Intel Alder Lake-N100 (1.4 GHz, up to 3.4 GHz)
RAM	16 GB DDR4
Storage	256 GB eMMC
Expandable Storage	Micro SD card slot (up to 512GB)
Screen Size	7 Inches
Screen Resolution	1280x800 Pixels
Graphics Card	Integrated Intel UHD Graphics
Wireless Type	802.11ac (Wi-Fi 5)
Bluetooth	Bluetooth 5.0
Ethernet	Dual 2.5G LAN (RJ45)
USB Ports	2 x USB 2.0, 2 x USB 3.2
Video Output	HDMI 1.2, Full-functional USB-C (supports 4K display)
Audio	3.5mm Microphone Jack
Battery	5000mAh Lithium Polymer (approx. 3 hours average life)

Feature	Specification
Operating System	Windows 11 Pro (supports Debian, Ubuntu, Linux)
Item Weight	2.1 pounds
Dimensions	6.81 x 4.57 x 1.02 inches (approx. from feature bullets)

8. WARRANTY AND SUPPORT

HIGOLEPC provides comprehensive support for your Mini PC:

- **Warranty:** This product is backed by a 1-year warranty from the date of purchase.
- **Technical Support:** Lifetime technical support is available for all HIGOLEPC products.
- **Customer Service:** Full 24/7 customer service is provided to assist with any inquiries or issues.
- For support, please refer to the contact information provided on the official HIGOLEPC website or your purchase platform.