MINIX X35-i Plus

MINIX X35-i Plus 4K Industrial Android Player User Manual

Model: X35-i Plus

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, and maintaining your MINIX X35-i Plus 4K Ultra HD Industrial Android Player. This device is designed for reliable performance in digital signage and various industrial applications, offering robust connectivity and a pre-rooted Android 11 firmware.

Image 1.1: MINIX X35-i Plus Industrial Android Player. This image displays the compact black device alongside icons indicating its key features: 4K Ultra HD resolution, WiFi 6 connectivity, and Android 11 operating system.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- MINIX X35-i Plus Unit
- Dual-Band Antenna
- HDMI Cable
- USB-C to USB-A Cable
- 12V 2A Power Adapter (with multiple plug types)
- Remote Control
- Setup Guide

Image 2.1: Contents of the MINIX X35-i Plus package. This image shows the main unit, a power adapter with interchangeable international plugs, a remote control, an HDMI cable, a USB-C to USB-A cable, a dual-band antenna, and a setup guide.

3. PRODUCT OVERVIEW

The MINIX X35-i Plus features a compact design with various ports for comprehensive connectivity. Understanding the layout of these ports is essential for proper setup and operation.

Image 3.1: MINIX X35-i Plus device with port labels and dimensions. The image highlights the device's dimensions (128mm x 128mm x 28mm) and labels its ports: Power Button, USB 3.0, 2x USB 2.0, TF Card Slot, OTG, Kensington Lock, Headphone Jack, Microphone Jack, HDMI 2.0, Gigabit Ethernet, S/PDIF, and DC 12V Power Jack.

Internal Design

The device incorporates industrial-grade components and a 6-layer PCB for stable, long-term operation. Its fanless design ensures silent operation and extended product life, suitable for continuous 24/7 use.

Image 3.2: Internal view of the MINIX X35-i Plus PCB. This image shows the internal circuit board, highlighting the fanless heatsink design and debug/test pins (MUART, ICEI, DEBUG) for advanced users or developers.

4. SETUP GUIDE

Follow these steps to set up your MINIX X35-i Plus:

1. **Connect the Antenna:** Screw the dual-band antenna onto the designated connector at the rear of the device.

2. **Connect to Display:** Connect one end of the HDMI cable to the HDMI port on the MINIX X35-i Plus and the other end to an HDMI input on your display (TV, monitor, projector).

3. **Connect to Network (Optional):**
   - **Wired Connection:** Connect an Ethernet cable from your router or network switch to the Gigabit Ethernet port on the device.
   - **Wireless Connection:** The device supports 802.11ax Dual-Band Wi-Fi 6. You will configure the

Wi-Fi connection after initial power-on.

4. **Connect Peripherals (Optional):**
   - **USB Devices:** Connect USB keyboards, mice, or other peripherals to the available USB 3.0 (x1) or USB 2.0 (x2) ports.
   - **Audio Devices:** Connect headphones or external speakers to the 3.5mm Headphone Jack. For digital audio, use the S/PDIF port.
   - **Microphone:** Connect a microphone to the 3.5mm Microphone Jack.

5. **Power On:** Connect the 12V 2A power adapter to the DC 12V Power Jack on the device, then plug the adapter into a power outlet. The device should automatically power on or can be turned on using the power button.

5. OPERATING INSTRUCTIONS

5.1 Initial Boot and Android 11 System

Upon first power-on, the device will boot into the Android 11 operating system. Follow the on-screen prompts for initial setup, including language selection and network configuration. The device features a pre-rooted firmware, allowing for advanced customization.

Image 5.1: Android 11 operating system interface. This image illustrates the Android 11 system running on the MINIX X35-i Plus, emphasizing its 'rooted firmware' and 'customization accept' features.

5.2 Network Connectivity (Wi-Fi 6)

The MINIX X35-i Plus supports Wi-Fi 6 (802.11ax) for faster and more reliable wireless connections. To connect to Wi-Fi:

1. Navigate to **Settings** > **Network & Internet** > **Wi-Fi**.
2. Turn Wi-Fi **On**.
3. Select your desired network from the list and enter the password if prompted.

Image 5.2: Illustration of Wi-Fi 6 capabilities. This image highlights the device's Wi-Fi 6 support, indicating speeds up to 2400Mbps, which is three times faster than Wi-Fi 5.

5.3 Advanced Features

- **Wake On LAN (WOL):** Allows the device to be powered on remotely via a network message. Ensure this feature is enabled in the system settings if required.

- **Auto Power:** Configures the device to automatically power on when electricity is supplied, ideal for unattended installations.

- **RTC (Real-Time Clock) Wakeup:** Enables scheduled power-on times.

- **Watchdog:** A hardware feature that monitors system operation and can automatically restart the device if it becomes unresponsive, ensuring continuous uptime.

- **Touch Screen Support:** The device supports touch screen displays, making it suitable for interactive digital signage applications.

MINIX NEO J51-C8 Max
8GB DDR4+512GB NVMe SSD

Image 5.3: MINIX X35-i Plus connected to a touch screen display. This image demonstrates the device's compatibility with touch screen interfaces, suitable for interactive kiosks or digital signage.

5.4 Application Scenarios

The MINIX X35-i Plus is versatile and can be deployed in various industrial and commercial settings:

- Digital Signage
- Vending Machines
- Medical Equipment
- Game Consoles
- Robot Assistance
- Digital POS Registers

Image 5.4: Various use cases for the MINIX X35-i Plus. This image depicts the device being used in diverse environments such as vending machines, medical equipment, game consoles, robot assistance, digital POS registers, and advertising machines.

6. MAINTENANCE

The MINIX X35-i Plus is designed for low maintenance due to its fanless construction and robust components.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or aerosols directly on the unit.
- **Ventilation:** Although fanless, ensure the device is placed in a location with adequate airflow to prevent heat buildup, especially during continuous operation.
- **Firmware Updates:** Periodically check the official MINIX website for firmware updates to ensure optimal performance and security.

7. TROUBLESHOOTING

If you encounter issues with your MINIX X35-i Plus, refer to the following common solutions:

- **No Power:**
    - Ensure the power adapter is securely connected to both the device and a working power outlet.
    - Verify the power outlet is functional.

- **No Display Output:**
    - Check that the HDMI cable is firmly connected to both the device and the display.

- Ensure your display is set to the correct HDMI input source.
- Try a different HDMI cable or display if possible.

- **Remote Control Unresponsive:**
  - Ensure there are no obstructions between the remote and the device's IR receiver.
  - Replace the remote control batteries.
  - Consider using a USB keyboard and mouse for easier navigation if the remote remains problematic.

- **Cannot Connect to Wi-Fi/Network:**
  - Verify that the Wi-Fi antenna is properly attached.
  - Check your router and internet connection.
  - Ensure you are entering the correct Wi-Fi password.
  - If using a wired connection, ensure the Ethernet cable is securely connected.

- **Issues with Google Account or Bluetooth Pairing:**
  - Ensure the device has a stable internet connection for Google account services.
  - For Bluetooth, ensure the peripheral is in pairing mode and within range.
  - Restart the device and attempt pairing again.

- **System Unresponsive:**
  - Press and hold the power button for 5-10 seconds to force a shutdown, then restart the device.
  - If the issue persists, a factory reset may be necessary (refer to advanced settings, this will erase all data).

8. SPECIFICATIONS

Feature	Specification
Model Name	X35-i Plus
CPU	RK3566 Cortex-A55 Quad-Core
GPU	Mali-G52-2EE
Memory	2GB DDR4
Internal Storage	32GB eMMC 5.1
Operating System	Android 11 (Pre-Rooted Firmware)
Video Output	HDMI 2.0, up to 4K@60Hz
Audio Output	HDMI 2.0, 3.5mm stereo jack, optical S/PDIF
Wireless Connectivity	802.11ax Dual-Band Wi-Fi 6, Bluetooth 5.0

Feature	Specification
Wired Networking	RJ-45 Gigabit Ethernet
Peripheral Interface	Micro SD card reader, USB 3.0 x1, USB 2.0 x2, OTG port x1, Kensington Lock, 3.5mm Headphone jack, 3.5mm Microphone jack, IR Receiver
Power Supply	12V/2A adapter (CE, FCC certified)
Special Features	Wake On LAN, Auto Power, RTC, Watchdog, HDMI CEC, Portrait mode, Miracast, Electrostatic Prevention for interfaces, Gigabit Ethernet Port with lightning protection design, Over-voltage protection
Product Dimensions	5.04 x 5.04 x 1.1 inches (128 x 128 x 28 mm)
Item Weight	1.61 pounds (730 Grams)
Color	Black

9. WARRANTY INFORMATION

For detailed warranty information, please refer to the official MINIX website or contact your point of purchase. Warranty terms and conditions may vary by region and retailer.

10. SUPPORT

If you require further assistance or have questions not covered in this manual, please utilize the following support channels:

- **Official MINIX Website:** Visit www.minix.com.hk for product information, FAQs, and firmware downloads.
- **MINIX Forum:** Engage with the community and find solutions at www.theminixforum.com.
- **Amazon Customer Support:** For purchase-related inquiries, log in to your Amazon account, go to 'Your Orders', and select 'Ask Product Question' for the MINIX X35-i Plus.
- **Social Media:** Connect with MINIX on Facebook at http://www.facebook.com/minixtech.

Related Documents - X35-i Plus

	[MINIX U8K-ULTRA 8K UHD AI Media Hub User Guide](#) Comprehensive user guide for the MINIX U8K-ULTRA, an 8K UHD AI Media Hub powered by Android. Learn about specifications, setup, and controls.
	[HUANANZHI H510M-I Motherboard User Manual](#) This user manual provides detailed instructions for the installation, setup, and operation of the HUANANZHI H510M-I motherboard, including safety precautions, component identification, driver installation, and BIOS settings.
	[MINIX NEO U22-XJ Max: 4K Ultra HD Android Media Hub User Guide](#) Explore the features and setup of the MINIX NEO U22-XJ Max, a 4K Ultra HD Android Media Hub. This user guide covers specifications, connectivity, basic setup, and control functions for enhanced home entertainment.
	[MINIX CP85: Wireless CarPlay & Android Auto Adapter for Seamless Connectivity](#) Upgrade your car's infotainment system with the MINIX CP85, a 2-in-1 wired CarPlay and Android Auto to wireless adapter. Enjoy seamless, automatic wireless connectivity, extensive vehicle compatibility, and easy switching between devices.
	[ADVANTECH WISE-4000/LAN Series IoT Ethernet I/O Modules](#) Explore the ADVANTECH WISE-4000/LAN Series, a new IoT Ethernet I/O module supporting RESTful web API for IoT applications. Features include HTML5 web configuration, built-in data logging, wide operating temperatures, and robust industrial design. Ideal for data acquisition and industrial automation.

Documents - MINIX – X35-i Plus

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www.minix.com.hk **X35-i Plus** Quad-Core-Industrie Hardware-Lsung Anleitung zur Einrichtung Spezi kationen Prozessor GPU Speicher Interner Speicher Dr...
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tom Model Difference MINIX TECHNOLOGY LIMITED X35 I NEO i 2ADACX35 2ADACX35I x35 MINIX Technology Limited Model Difference Product Name: MINIX NEO X35-i Model Number s : X35-i, **X35-i Plus**, X35-i Max. Trademark: MINIX All the model are the same circuit and RF module, except model names. Regards Sincerely Client s signature: Client s name / title : Kenny Wu / Vice President Cont...

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[pdf] Agent Authorization

PLEASE PRINT ON COMPANY LETTERHEAD MiCOM Labs Inc QMS Agent Authorization Rev 1 0 MINIX TECHNOLOGY LIMITED X35 I NEO i 2ADACX35 2ADACX35I x35 MINIX Technology Limited Agent Authorization Company: MINIX Technology Limited Address: Unit 01, 15/F, Chevalier Commercial Center, No.8 Wang Hoi Road, Kowloon Bay, Kowloon, Hong Kong Product Name: MINIX NEO X35-i Model Number s : X35-i, **X35-i Plus**, X35-i Max. Trademark: MINIX We authorize MiCOM Lab...

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[pdf] Decleration of Conformity

5600 5650 MHz Transmission Restriction Clinton Bradley FCC Software Configuration Control Declaration Rev1 1 MINIX TECHNOLOGY LIMITED X35 I NEO i 2ADACX35 2ADACX35I x35 MINIX Technology Limited Software Configuration Control Declaration Date: 2022/05/20 Federal Communications Commission 7435 Oakland Mills Road Columbia, MD 21046 USA Attn: OET Dept. Product: MINIX NEO X35-i Model Number: X35-i, **X35-i Plus**, X35-i Max. Regarding FCC Country Code Selection guidelines i...

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