## MINIX ER937-AI

# MINIX ER937-AI Mini PC User Manual
Model: ER937-AI

## 1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your MINIX ER937-AI Mini PC. Please read this guide thoroughly before using the device to ensure optimal performance and longevity.

### Package Contents

- MINIX Elite ER937-AI Mini PC x 1
- VESA Mount x 1
- 19V/6.32A Power Adapter x 1
- HDMI Cable x 1

## 2. PRODUCT OVERVIEW

The MINIX ER937-AI is a high-performance Mini PC designed for demanding tasks, including business applications, gaming, 3D rendering, and AI computing. It features an AMD Ryzen AI 9 HX 370 processor, Radeon 890M graphics, and advanced connectivity options.

### Front and Rear Panel Interfaces

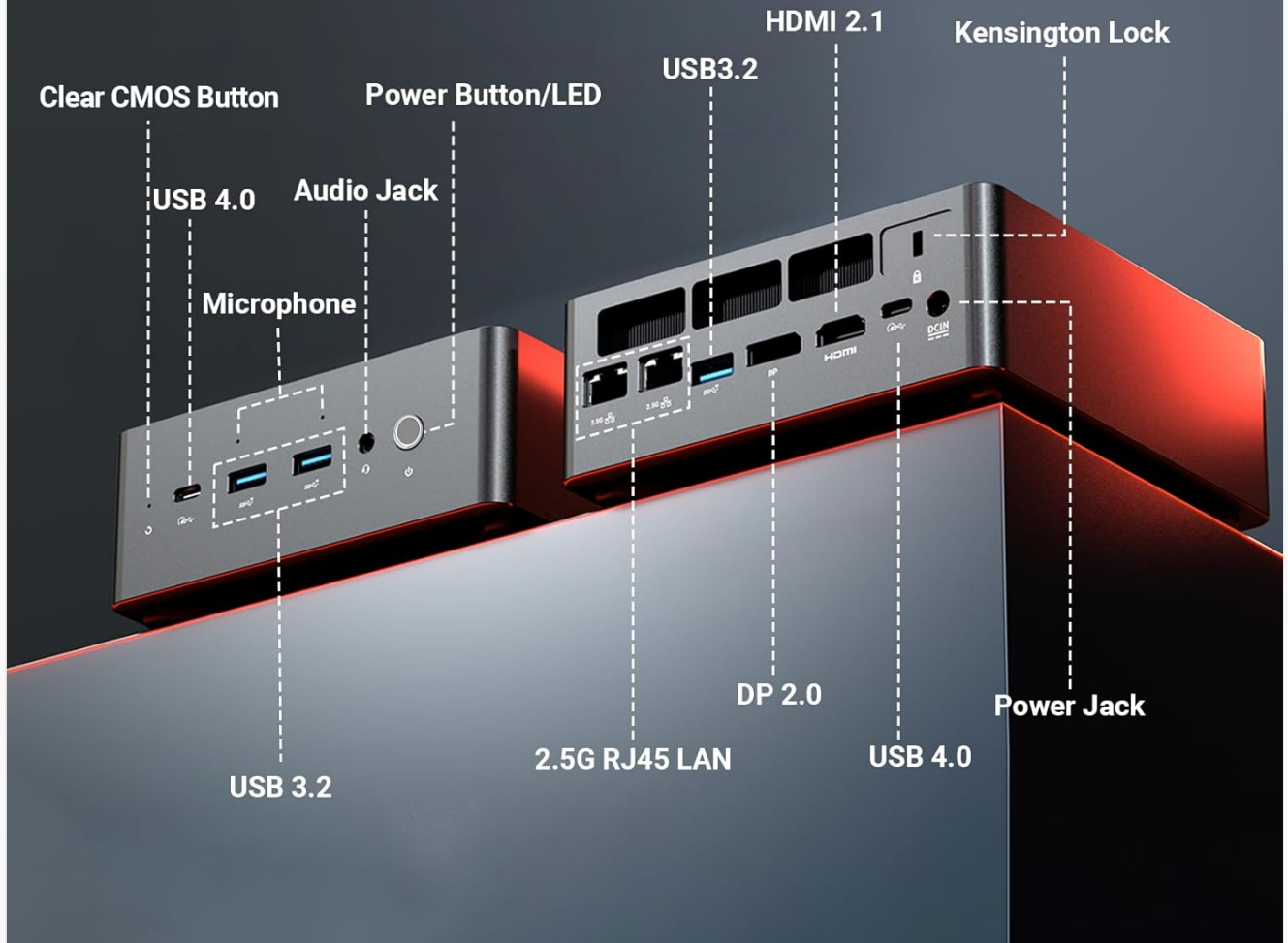Familiarize yourself with the ports and buttons on your Mini PC.

**Image 2.1:** Front and Rear Panel Interfaces. The front panel includes USB 4.0, USB 3.2, Microphone, Audio Jack, and Power Button/LED. The rear panel features Power Jack, USB 4.0, 2.5G RJ45 LAN, DP 2.0, HDMI 2.1, USB 3.2, and Kensington Lock.

- **Front Panel:** USB-C 4.0 (x2), USB-A 3.2 Gen2 (x2), Audio Jack, Microphone, Power Button with Fingerprint Sensor, Clear CMOS Button.
- **Rear Panel:** Power Jack, USB-A 3.2 Gen2 (x1), HDMI 2.1, DisplayPort 2.0, Dual 2.5G RJ45 LAN ports, Kensington Lock.

## 3. SETUP GUIDE

### 3.1 Initial Connection

1. **Connect Peripherals:** Connect your monitor(s) to the HDMI 2.1 and/or DisplayPort 2.0 ports. For multi-monitor setups, utilize the USB-C 4.0 ports which also support 8K@60Hz display output. Connect your keyboard and mouse to the available USB-A ports.
2. **Power Connection:** Connect the provided 19V/6.32A power adapter to the Mini PC's power jack and then to a power outlet.

3. **Network Connection (Optional):** For a wired connection, connect an Ethernet cable to one of the 2.5G RJ45 LAN ports. For wireless, Wi-Fi 7 is available after initial setup.

## 3.2 First Boot-Up

1. Press the power button located on the front panel. The power LED will illuminate.

2. The system will boot into Windows 11 Pro. Follow the on-screen instructions to complete the initial Windows setup, including language, region, network configuration, and user account creation.

3. During setup, you can configure the fingerprint sensor for secure and fast logins using Windows Hello.

## 3.3 VESA Mount Installation

The included VESA mount allows you to attach the Mini PC to the back of a compatible monitor or TV, saving desk space.

1. Attach the VESA mount bracket to the back of your monitor using the screws provided with your monitor (or the VESA mount if included). Ensure the mount is securely fastened.

2. Slide the MINIX ER937-AI Mini PC onto the VESA mount until it clicks into place.

## 4. OPERATING INSTRUCTIONS

## 4.1 Power On/Off and Restart

- **Power On:** Press the power button.
- **Shut Down:** Click the Start button in Windows, then select Power > Shut down.
- **Restart:** Click the Start button in Windows, then select Power > Restart.
- **Force Shut Down:** If the system is unresponsive, press and hold the power button for approximately 5-7 seconds until the device powers off. Use this only as a last resort.

## 4.2 Network Connectivity

- **Wi-Fi 7:** Access network settings in Windows to connect to available Wi-Fi 7 (2.4GHz/5GHz/6GHz) networks.
- **2.5G LAN:** Plug an Ethernet cable into either of the two 2.5G RJ45 LAN ports for a high-speed wired connection.
- **Bluetooth 5.4:** Enable Bluetooth in Windows settings to pair with compatible devices such as keyboards, mice, or audio peripherals.

**Image 4.1:** Ultra-Fast Connections. The Mini PC supports Wi-Fi 7, Bluetooth 5.4, and dual 2.5G Ethernet for robust network performance.

## 4.3 Display Configuration

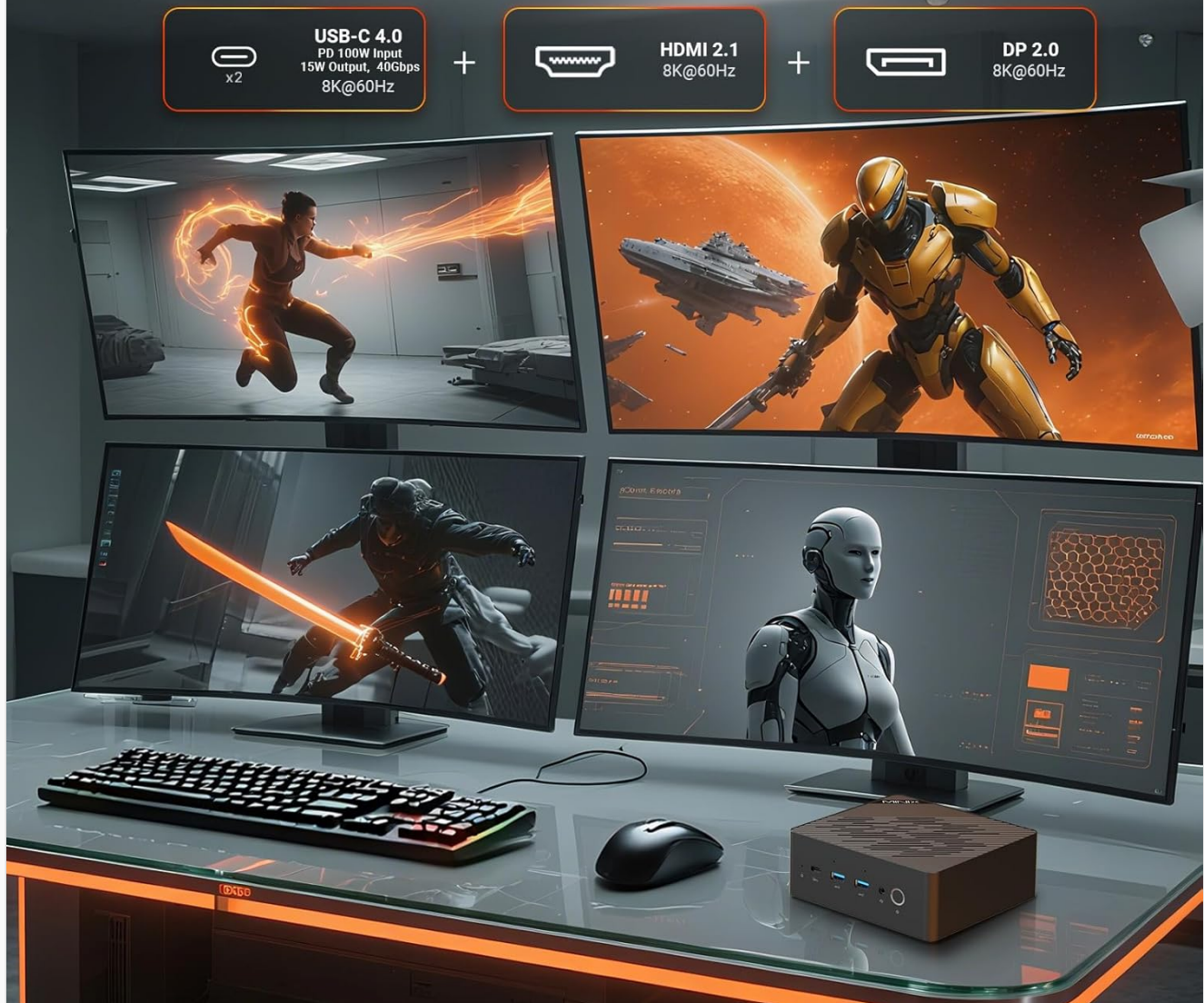The MINIX ER937-AI supports up to four 8K@60Hz displays simultaneously.

**Image 4.2:** Quad Screen 8K@60Hz Display. The Mini PC can drive up to four 8K monitors via USB-C 4.0, HDMI 2.1, and DisplayPort 2.0.

- Connect monitors using the HDMI 2.1, DisplayPort 2.0, and two USB-C 4.0 ports.
- In Windows Display Settings, you can configure display arrangement, resolution, and orientation.

## 4.4 USB-C 4.0 Functionality

The two USB-C 4.0 ports offer versatile functionality:

- **Power Delivery (PD) Input:** Supports 100W power input.
- **Power Delivery (PD) Output:** Provides 15W power output for charging compatible devices.
- **Data Transfer:** Up to 40Gbps for high-speed data transfer.
- **Display Output:** Supports 8K@60Hz video output.

## 4.5 AI Features

Leverage the AMD Ryzen AI 9 HX 370 processor's NPU for enhanced AI capabilities:

- **Windows Copilot:** Utilize AI-powered features within Windows 11 Pro, such as Recall and real-time translation.
- **AI Acceleration:** Benefit from up to 80 TOPS (Trillions of Operations Per Second) for AI tasks like drawing and voice interaction in compatible applications.

# 5. MAINTENANCE AND UPGRADES

## 5.1 Cooling System

The Mini PC features dual independent fans for efficient cooling of the CPU and SSD, ensuring stable performance under heavy loads.
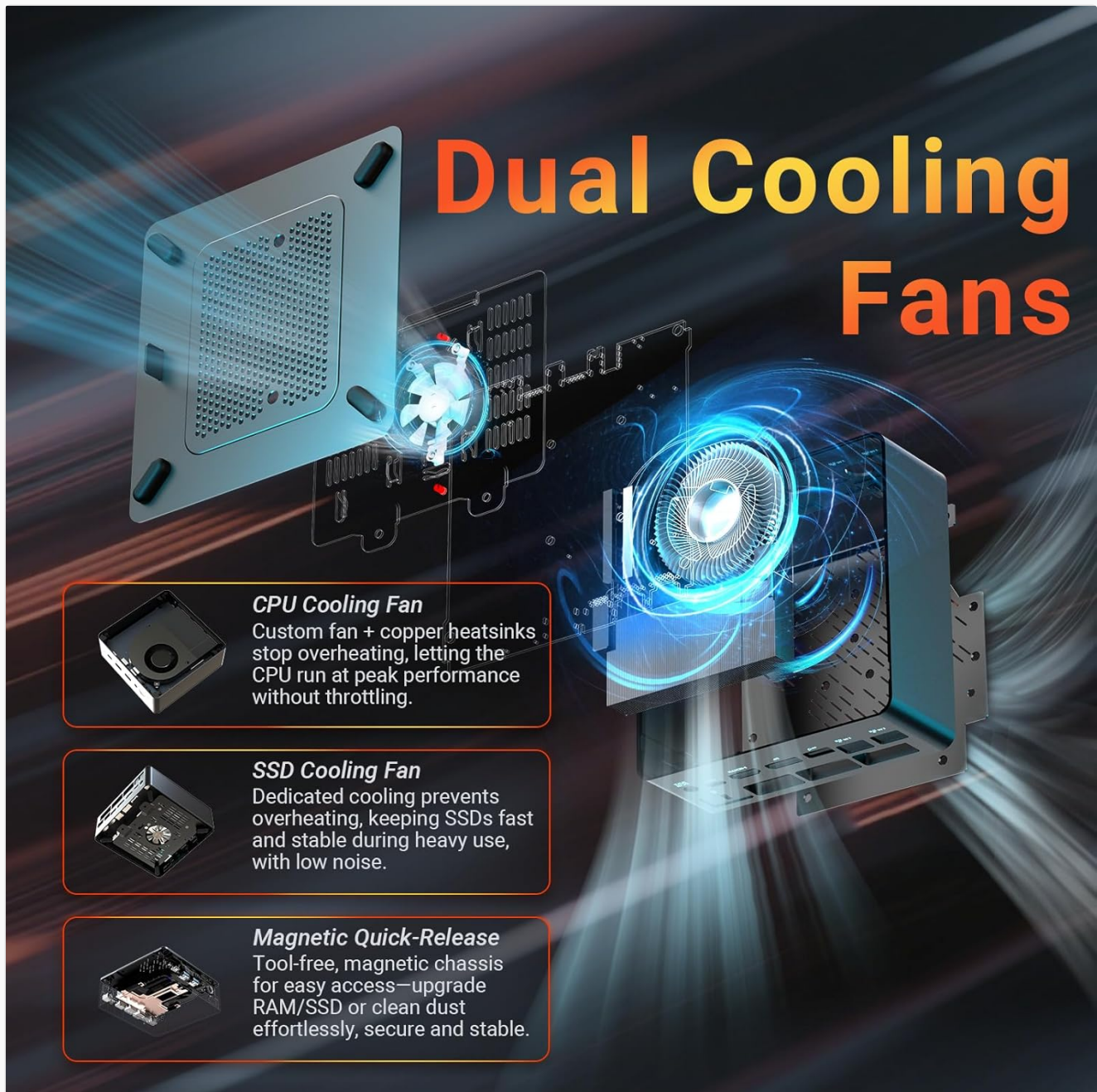


**Image 5.1:** Dual Cooling Fans. Separate fans cool the CPU and SSD to prevent overheating and maintain performance.

To maintain optimal cooling, ensure the ventilation grilles are not obstructed. Periodically clean dust from the chassis using compressed air. The magnetic quick-release chassis allows for easy access for cleaning.

## 5.2 Storage Expansion

The Mini PC comes with a 1TB M.2 2280 PCIe 4.0x4 NVMe SSD and includes a second M.2 2280 PCIe 4.0x4 NVMe slot for additional storage, supporting up to 8TB.



**Image 5.2:** Ample Memory & Storage. The Mini PC supports 32GB DDR5 RAM and a 1TB PCIe 4.0 NVMe SSD, with expansion options.

To install an additional SSD:

1. Power off the Mini PC and disconnect all cables.

2. Carefully open the chassis (refer to the magnetic quick-release mechanism).

3. Locate the empty M.2 slot. Insert the new M.2 NVMe SSD at an angle and secure it with the provided screw.

4. Close the chassis and reconnect cables. The new SSD will need to be initialized and formatted in Windows Disk Management.

## 5.3 RAM Upgrade

The device is equipped with 32GB dual-channel DDR5-5600 RAM (2x DDR5 SO-DIMM slots) and is expandable up to 96GB.

To upgrade RAM:

1. Power off the Mini PC and disconnect all cables.

2. Carefully open the chassis.

3. Locate the DDR5 SO-DIMM slots. If replacing existing modules, gently push the clips on either side of the module outwards to release it.

4. Insert new DDR5 SO-DIMM modules at an angle and push down until the clips snap into place.

5. Close the chassis and reconnect cables.

## 5.4 Clear CMOS Button

A Clear CMOS button is available on the front panel. This button can be used to reset BIOS settings to their default values if you encounter boot issues related to BIOS configuration. Consult technical support before using this feature.

## 6. TROUBLESHOOTING

If you encounter issues with your MINIX ER937-AI Mini PC, refer to the following common solutions:

- **No Power:**

  - Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
  - Verify the power outlet is functional by plugging in another device.

- **No Display:**

  - Check that the monitor is powered on and the correct input source is selected.
  - Ensure display cables (HDMI, DisplayPort, USB-C) are securely connected to both the Mini PC and the monitor.
  - Try connecting to a different display port or using a different cable.

- **Network Connectivity Issues:**

  - For Wi-Fi, check Windows network settings, ensure Wi-Fi is enabled, and try reconnecting to your network.
  - For wired LAN, ensure the Ethernet cable is properly connected and your router/modem is functioning.
  - Restart your router/modem and the Mini PC.

- **Fingerprint Sensor Not Working:**

  - Ensure your finger is clean and dry.
  - Re-register your fingerprint in Windows Hello settings.

- **System Performance Issues:**

  - Ensure the Mini PC has adequate ventilation and is not placed in an enclosed space.
  - Check for excessive background processes in Task Manager.
  - Update drivers and Windows 11 Pro to the latest versions.

If problems persist, refer to the Support section for further assistance.

## 7. SPECIFICATIONS

Detailed technical specifications for the MINIX ER937-AI Mini PC.

| Feature | Specification |
| --- | --- |
| Model | ER937-AI |
| Operating System | Windows 11 Pro |
| Processor | AMD Ryzen AI 9 HX 370 (12C/24T, up to 5.1GHz) |
| Graphics | AMD Radeon 890M, Ryzen AI NPU (80 TOPS overall) |
| RAM | 32GB DDR5-5600 (2x SO-DIMM slots, expandable to 96GB) |
| Storage | 1TB M.2 2280 PCIe 4.0x4 NVMe SSD (second slot expandable to 8TB) |
| Wireless Connectivity | Wi-Fi 7, Bluetooth 5.4 |
| Wired Connectivity | Dual 2.5G RJ45 LAN |
| USB Ports | 2x USB-C 4.0 (PD 100W input, 15W output), 3x USB-A 3.2 Gen2 |
| Video Output | HDMI 2.1, DisplayPort 2.0, 2x USB-C 4.0 (Quad 8K@60Hz support) |
| Audio | Audio Jack, Dual Hidden Microphones |
| Security | Fingerprint-enabled Power Button, Kensington Lock |
| Cooling | Dual Independent Fans (CPU & SSD) |
| Dimensions (LxWxH) | 5.52 x 5.5 x 2.2 inches |
| Weight | 2.06 pounds |

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official MINIX website. Warranty coverage typically includes defects in materials and workmanship under normal use.

### 8.2 Technical Support

If you require technical assistance or have questions not covered in this manual, please use the following resources:

- **Online Support:** Visit your Amazon account, navigate to "Your Orders," and select "Ask Product Question" for the MINIX ER937-AI Mini PC.
- **Official Website:** For offline maintenance services and additional support resources, please visit the official MINIX website.

# Related Documents - ER937-AI

| | |
|---|---|
|  | **[MINIX U8K-ULTRA 8K UHD AI Media Hub User Guide](#)**<br>Comprehensive user guide for the MINIX U8K-ULTRA, an 8K UHD AI Media Hub powered by Android. Learn about specifications, setup, and controls. |
|  | **[Minix X35i Plus Android Mini PC: Important Information and Technical Specifications](#)**<br>Comprehensive information for the Minix X35i Plus Android Mini PC, including operating instructions, country restrictions, EU Declaration of Conformity, disposal guidelines, and detailed technical specifications for Bluetooth and Wi-Fi modules. Published by Conrad Electronic SE. |
|  | **[Minix Media Hub Safety Instructions and Technical Data](#)**<br>Safety instructions, intended use, operating environment, cleaning, disposal, and detailed technical specifications for the Minix Media Hub (Model 3335291). |
|  | **[MINIX NEO Z83-4 Max Fanless Mini PC User Guide](#)**<br>Comprehensive guide for the MINIX NEO Z83-4 Max fanless mini PC, covering specifications, contents, overview of ports and features, and setup instructions. |
|  | **[Minix NEO J50C-8SE Mini PC User Guide](#)**<br>User guide for the Minix NEO J50C-8SE Mini PC featuring Intel Celeron J4125 processor, 8 GB RAM, 240 GB SSD, and Windows 10 Pro. Learn about setup and usage. |
|  | **[MINIX SF15 FOLD User Guide: Foldable Portable Monitor Setup and Features](#)**<br>Comprehensive user guide for the MINIX SF15 FOLD foldable portable monitor. Learn about setup, connections (USB-C, HDMI), driver installation, specifications, and features for enhanced productivity. |