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KAMRUI E3B

KAMRUI E3B Mini PC User Manual - AMD Ryzen 7 7730U

Model: E3B

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your KAMRUI E3B Mini PC. The KAMRUI E3B is a compact desktop computer powered by an AMD Ryzen 7 7730U processor, designed for various applications including office work, home entertainment, and light gaming. It features advanced connectivity options and support for multiple high-resolution displays.



Image 1.1: Front and side view of the KAMRUI E3B Mini PC.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- KAMRUI E3B Mini PC
- Power Adapter
- HDMI Cable
- VESA Mount Bracket
- Mounting Screws
- User Manual (this document)

3. PRODUCT OVERVIEW

The KAMRUI E3B Mini PC features a compact design with various ports for connectivity. Familiarize yourself with the port layout before setup.

3.1 Front Interface

1x 3.5mm Audio Jack: For headphones or speakers.

1x Power Button: To power on/off the device.

2x USB 3.2 Gen2 Type-A (10Gbps): High-speed data transfer ports.

1x USB 3.2 Gen2 Type-C: Supports DP1.4 (4K@60Hz), 10Gbps data transfer, and Power Delivery (PD) output.

3.2 Rear Interface

1x HDMI 2.0 (4K@60Hz): For connecting to a display.

1x DP 1.4b (4K@60Hz): For connecting to a display.

4x USB 3.2 Gen1 Type-A (5Gbps): Standard data transfer ports.

1x 1Gbps RJ45 Ethernet Port: For wired network connection.

1x DC Power Input: For connecting the power adapter.

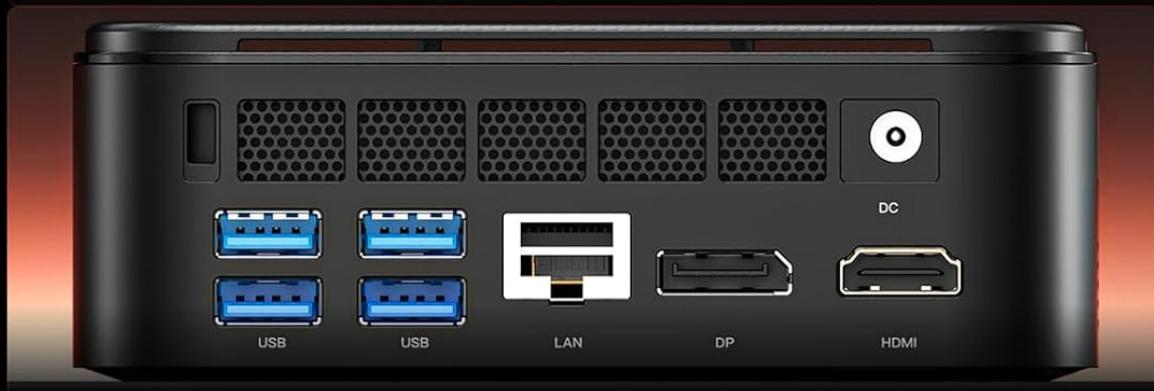
Premium Multi-Interface Design

Front Interface

- 3.5mm Audio × 1
- Power Button × 1
- USB3.2 Gen2 Type-A × 2 (10Gbps)
- USB3.2 Gen2 Type-C × 1
- (Support DP1.4, 4K@60Hz, 10Gbps, PD output)

Rear Interface

- HDMI 2.0 × 1 (4K@60Hz)
- USB3.2 Gen1 Type-A × 4 (5Gbps)
- 1Gbps RJ45 × 1
- DC Power × 1
- DP1.4b × 1 (4K@60Hz)



Connect All Your Devices



Monitor



Keyboard



Printer



HDTV



Projector



Headphones

Image 3.1: Diagram illustrating the front and rear interfaces of the Mini PC.

4. INITIAL SETUP

Follow these steps to set up your KAMRUI E3B Mini PC:

- Connect to a Display:** Use the provided HDMI cable to connect the Mini PC to a monitor or TV. You can also use the DisplayPort (DP) or USB-C port for additional displays.
- Connect Peripherals:** Plug in your keyboard and mouse to the available USB ports.

3. **Connect to Network (Optional):** For a wired connection, connect an Ethernet cable to the RJ45 port. For wireless, ensure your WiFi network is available after powering on.
4. **Connect Power:** Plug the power adapter into the DC power input on the rear of the Mini PC, then plug the adapter into a power outlet.
5. **Power On:** Press the power button located on the front of the Mini PC. The system will boot up.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **To Power On:** Press the power button once.
- **To Power Off:** From the operating system, select "Shut Down". Alternatively, press and hold the power button for 5 seconds to force a shutdown (use only when necessary).

5.2 Network Connectivity

- **Wired (Ethernet):** Connect an Ethernet cable to the RJ45 port. The system should automatically detect the connection.
- **Wireless (Wi-Fi 6):** After booting, navigate to your operating system's network settings, select your Wi-Fi network, and enter the password. The Mini PC supports Wi-Fi 6 for fast and stable wireless connections.

5.3 Bluetooth Connectivity

The Mini PC includes Bluetooth 5.2 for connecting wireless peripherals such as headphones, keyboards, and mice. Access your operating system's Bluetooth settings to pair new devices.

5.4 Triple Display Setup

The KAMRUI E3B supports up to three 4K@60Hz displays simultaneously using the HDMI, DisplayPort (DP), and USB-C ports. Connect your monitors to these ports and configure display settings within your operating system.

Smoother Office Multitasking



Image 5.1: Example of a triple display setup for enhanced productivity.

6. STORAGE AND MEMORY UPGRADE

The KAMRUI E3B Mini PC offers flexible upgrade options for both RAM and storage.

6.1 RAM Upgrade

The device comes with 16GB DDR4 3200MHz RAM and can be upgraded to a maximum of 64GB. To upgrade, locate the SO-DIMM DDR4 slots inside the chassis.

6.2 SSD Storage Expansion

The Mini PC includes a 512GB M.2 2280 SSD (pre-installed) and features two M.2 2280 slots for expansion, supporting up to 2TB per slot for a total of 4TB expandable storage. One slot supports M.2 SATA SSDs, and the other supports both M.2 PCIe NVMe and SATA SSDs.

Note: Opening the chassis to perform upgrades should be done carefully to avoid damaging internal components. Refer to the internal layout diagram for guidance.

Massive Storage Unleashed Performance



16GB DDR4 3200MHz

Expandable to 64GB



512GB M.2 2280 SSD (Pre-installed)

1* M.2 Slot only support M. 2 SATA SSD

1* M.2 Slot Support M.2 PCIe / SATA SSD

Max 4TB Total Storage

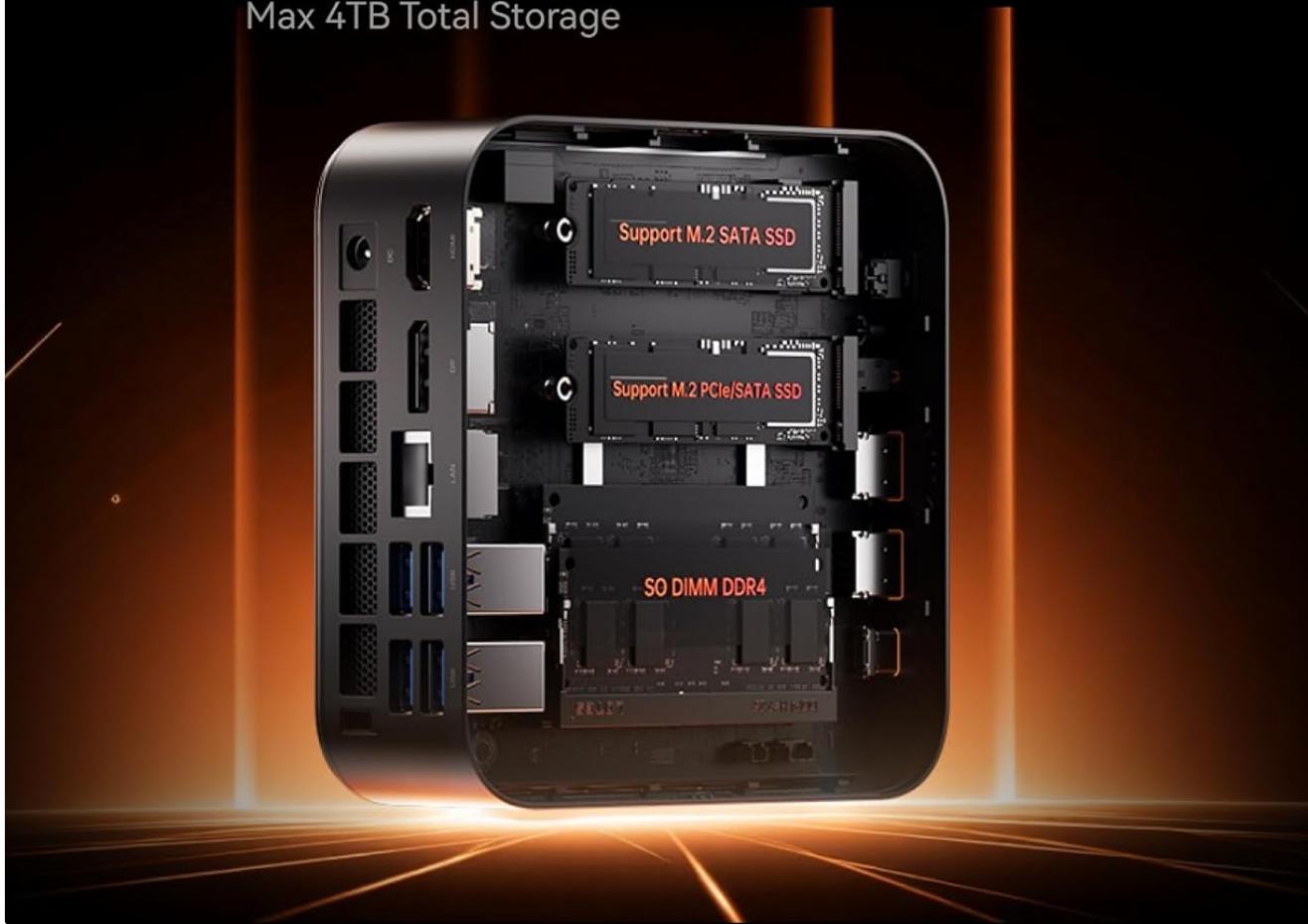


Image 6.1: Internal layout showing M.2 SSD slots and SO-DIMM DDR4 memory slot.

7. MAINTENANCE

7.1 Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to gently clear dust from the ventilation grilles to ensure optimal airflow and prevent overheating. Do not use liquid cleaners directly on the device.

7.2 Heat Dissipation

The KAMRUI E3B features a built-in high-speed silent axial fan and dual exhaust vents for efficient heat dissipation. Ensure that the vents are not obstructed to maintain proper cooling and system performance.

More Efficient Heat Dissipation



High-Speed Silent Axial Fan Dual Exhaust Vents Cooling

Noise Level Comparison

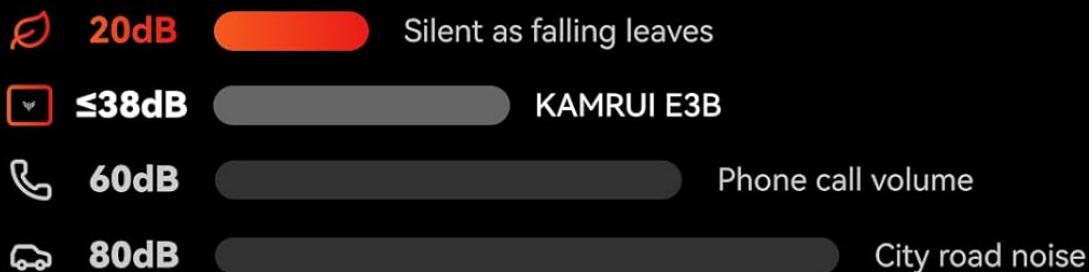


Image 7.1: Illustration of the Mini PC's internal cooling components.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power/System does not turn on.	Power adapter not connected, faulty power outlet, or power button issue.	<ul style="list-style-type: none"> Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Try a different power outlet. Verify the power adapter is functioning correctly.
No display on monitor.	Incorrect cable connection, monitor input selection, or display driver issue.	<ul style="list-style-type: none"> Check that the HDMI, DP, 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 (e.g., HDMI 1, DisplayPort). Try a different display cable or monitor if available.
Wi-Fi or Bluetooth not working.	Drivers not installed, disabled in settings, or interference.	<ul style="list-style-type: none"> Check your operating system's network and Bluetooth settings to ensure they are enabled. Ensure drivers are up to date. Move the Mini PC away from potential sources of interference.
System freezes or crashes.	Overheating, software conflict, or insufficient RAM/storage.	<ul style="list-style-type: none"> Ensure proper ventilation and clean dust from vents. Update drivers and operating system. Close unnecessary applications. Consider upgrading RAM or SSD if consistently running out of resources.

9. SPECIFICATIONS

Feature	Detail
Brand	KAMRUI
Model Number	E3B
Processor	AMD Ryzen 7 7730U (8 Cores/16 Threads, up to 4.5GHz)
Graphics	AMD Radeon Vega 8 Graphics
RAM	16GB DDR4 3200MHz (Expandable to 64GB)
Storage	512GB M.2 2280 SSD (Expandable up to 4TB via 2 M.2 slots)
Operating System	OS (Pre-installed Windows 11 based on reviews)
Wireless Connectivity	Wi-Fi 6, Bluetooth 5.2
Ethernet	1x 1Gbps RJ45

Feature	Detail
Video Output	1x HDMI 2.0 (4K@60Hz), 1x DP 1.4b (4K@60Hz), 1x USB-C (DP1.4, 4K@60Hz)
USB Ports	2x USB 3.2 Gen2 Type-A, 4x USB 3.2 Gen1 Type-A, 1x USB 3.2 Gen2 Type-C
Audio	1x 3.5mm Audio Jack
Dimensions	Approximately 9.29 x 7.17 x 2.91 inches
Weight	Approximately 2.63 pounds

10. WARRANTY AND SUPPORT

KAMRUI provides maintenance services for your Mini PC during the warranty period. For technical assistance or warranty claims, please contact KAMRUI support through the following channels:

Email: support@kamrui.com

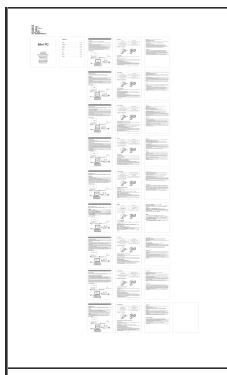
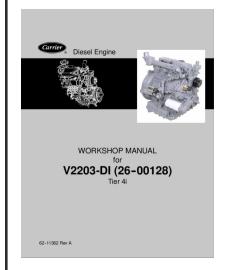
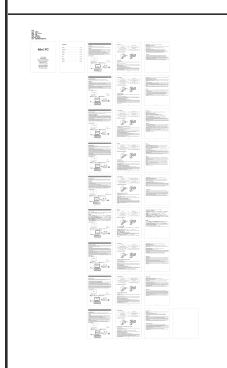
Phone (US): +1-833-670-1528 (Monday-Friday, 9am-5pm EST)

Online Support: You can also reach out via your Amazon account by navigating to "Your Orders" and selecting "Ask Product Question" for this item.

KAMRUI offers a price protection policy within 30 days of purchase. If the price changes within this period, you may be eligible for a refund of the difference.



Image 10.1: KAMRUI support contact details and online assistance options.

	<p>KAMRUI E2 Mini PC User Manual and Specifications</p> <p>Official user manual for the KAMRUI E2 Mini PC, providing detailed information on setup, operation, and specifications. Includes troubleshooting and support.</p>
	<p>Yamaha TW-E3B Truly Wireless Earphones Safety Precautions and Handling Guide</p> <p>Comprehensive safety instructions, warnings, and handling guidelines for Yamaha TW-E3B Truly Wireless Earphones, covering charging, battery use, water resistance, and wireless operation.</p>
	<p>Troubleshooting Guide: NIPOGI E3B MINI PC Not Turning On or Unresponsive Screen</p> <p>A comprehensive guide to troubleshooting common power and screen issues with the NIPOGI E3B MINI PC featuring AMD Ryzen 7 5700U. Learn steps to resolve no-power situations, blank screens, and unresponsive displays.</p>
	<p>Carrier V2203-DI Diesel Engine Workshop Manual</p> <p>Comprehensive workshop manual for Carrier Transicold V2203-DI Tier 4i diesel engines, covering identification, specifications, troubleshooting, servicing, and maintenance procedures.</p>
	<p>AK2 Plus N100 Mini PC Case: 3D Printable Replacement with 120mm Fan Option</p> <p>A 3D printable replacement case for AK2 Plus Intel N100 Mini PCs (Firebat, Kamrui, NiPoGi). Features reduced size, improved cooling, and an optional 120mm fan version. Includes design files and assembly guidance.</p>
	<p>KAMRUI E2 Mini PC User Manual and Specifications</p> <p>Official user manual for the KAMRUI E2 Mini PC, providing detailed information on setup, operation, and specifications. Includes troubleshooting and support.</p>

