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> GMKtec M5 Ultra Mini PC User Manual

GMKtec M5 Ultra

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Model: M5 Ultra

1. INTRODUCTION

The GMKtec M5 Ultra Mini PC is a compact and powerful computing solution designed for a variety of tasks, from office productivity to gaming and multimedia. Equipped with an AMD Ryzen 7 7730U processor, 16GB DDR4 RAM, and a 512GB PCIe SSD, it offers robust performance in a small form factor. This manual provides essential information for setting up, operating, and maintaining your M5 Ultra Mini PC.



Image: Overview of the GMKtec M5 Ultra Mini PC highlighting its AMD Ryzen 7 7730U processor, PCIe 3.0 M.2 2280 SSD, DDR4 3200MT/s RAM, AMD Radeon Graphics, dual cooling vents, triple 8K display support, WiFi 6E, and Bluetooth 5.2.

2. WHAT'S IN THE BOX

Please check the contents of your package to ensure all items are present:

- M5 Ultra Gaming Mini PC Ryzen 7 7730U
- Power Adapter
- VESA Mount
- HDMI Cable

- User Manual (this document)



Image: The retail packaging contents, including the Nucbox M5 Ultra Mini PC, power supply, user manual, VESA mount with screws, and HDMI cable.

3. SETUP GUIDE

1. **Connect to a Display:** Use the provided HDMI cable to connect the Mini PC to your monitor or TV. The M5 Ultra supports triple display output via HDMI, DisplayPort, and USB-C.
2. **Connect Peripherals:** Plug in your keyboard, mouse, and any other USB devices into the available USB 3.2 or USB 2.0 ports.
3. **Network Connection:** For wired internet, connect an Ethernet cable to one of the 2.5GbE RJ45 ports. For wireless, ensure your WiFi 6E network is available.
4. **Power On:** Connect the power adapter to the DC Power Port on the Mini PC, then plug it into a power outlet. Press the power button on the front of the device.
5. **Initial Boot:** The system will boot into the pre-installed operating system (Windows 11 Pro). Follow the on-screen instructions to complete the initial setup.

Your browser does not support the video tag.

Video: A demonstration of the GMKtec M5 Ultra Mini PC, showcasing its compact design and various ports for connectivity.

4. OPERATING INSTRUCTIONS

4.1 Power Management

- **Power On:** Press the power button once.
- **Shut Down:** 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).
- **Restart:** From the operating system, select "Restart."
- **Sleep Mode:** Briefly press the power button while the system is on to enter sleep mode. Press it again to wake the system.

4.2 BIOS Settings

To access the BIOS settings, press the **DEL** key repeatedly during startup. In the BIOS, you can adjust settings such as

boot order, power management options (including Auto Power On and Wake On LAN), and performance modes.

4.3 Triple Display Setup

The M5 Ultra supports connecting up to three displays simultaneously for extended desktop or mirrored configurations. Use a combination of the HDMI, DisplayPort (DP), and USB-C (with DP Alt Mode support) outputs. Ensure your monitors are connected and then configure display settings within your operating system.



Image: The GMKtec M5 Ultra Mini PC demonstrating its capability to support a triple-display setup with 8K output.

5. HARDWARE OVERVIEW

5.1 Ports and Connectors

The GMKtec M5 Ultra Mini PC features a comprehensive set of ports for versatile connectivity:

- 2 x USB 3.2 ports
- 2 x USB 2.0 ports
- 1 x HDMI 2.0 port (4K@60Hz)
- 1 x USB-C port (PD/DP/DATA)
- 1 x DisplayPort (DP)
- 2 x 2.5GbE RJ45 LAN ports
- 1 x Audio 3.5mm (HP&MIC)
- 1 x DC Power Port
- Security Lock Slot



Image: Detailed view of the front and rear ports of the GMKtec M5 Ultra Mini PC, including USB, HDMI, DP, USB-C, Ethernet, and audio jacks.

5.2 RAM and SSD Upgrades

The M5 Ultra Mini PC is designed for easy upgrades of both RAM and SSD storage. It features:

- **Dual M.2 2280 SSD slots:** One slot supports SATA/PCIe, and the other is PCIe only. Each slot can be expanded up to 8TB.
- **Dual SO-DIMM slots:** Supports DDR4 3200MT/s RAM, expandable up to 64GB.



Image: An internal view of the GMKtec M5 Ultra Mini PC, illustrating the dual SO-DIMM slots for DDR4 RAM and dual M.2 2280 SSD slots for storage expansion.

Your browser does not support the video tag.

Video: A disassembly guide for a GMKtec Mini PC, demonstrating how to access and upgrade internal components like RAM and SSD.

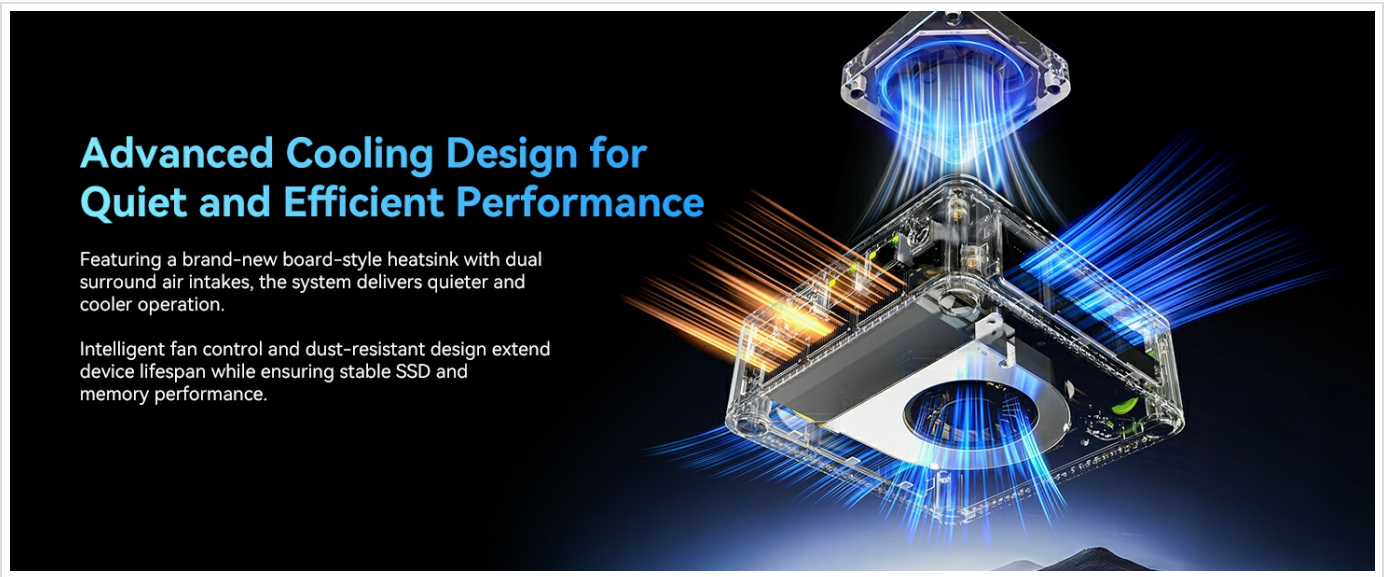
6. SPECIFICATIONS

Feature	Detail
Processor	AMD Ryzen 7 7730U (8 Cores/16 Threads, up to 4.5GHz)

Feature	Detail
Graphics	AMD Radeon Graphics (8 Cores, 2000 MHz)
RAM	16GB DDR4 (Dual Channel, expandable to 64GB)
Storage	512GB PCIe 3.0 M.2 2280 SSD (expandable to 8TB)
Operating System	Windows 11 Pro
Network	Dual 2.5GbE LAN, WiFi 6E, Bluetooth 5.2
Video Output	HDMI 2.0, DisplayPort, USB-C (Triple 8K Display Support)
Ports	2x USB 3.2, 2x USB 2.0, 1x HDMI 2.0, 1x USB-C, 1x DP, 2x 2.5GbE LAN, 1x 3.5mm Audio, 1x DC Power
Dimensions	5 x 1.88 x 5.07 inches
Weight	1.26 kg

7. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to clear dust from the ventilation grilles to ensure optimal airflow and cooling.
- **Software Updates:** Keep your operating system and drivers updated to ensure system stability and performance.
- **Storage Management:** Periodically check your storage usage and remove unnecessary files to maintain system speed.
- **Environmental Conditions:** Operate the Mini PC in a well-ventilated area, away from direct sunlight, heat sources, and excessive humidity.



Advanced Cooling Design for Quiet and Efficient Performance

Featuring a brand-new board-style heatsink with dual surround air intakes, the system delivers quieter and cooler operation.

Intelligent fan control and dust-resistant design extend device lifespan while ensuring stable SSD and memory performance.

Image: An illustration of the advanced dual fan cooling design with surround air intakes, highlighting its role in quiet and efficient performance.

8. TROUBLESHOOTING

Problem	Possible Solution
No power/System won't turn on	Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Test the outlet with another device.
No display on monitor	Check HDMI/DP/USB-C cable connections. Ensure the monitor is powered on and set to the correct input source. Try a different cable or monitor if possible.
Slow performance	Close unnecessary applications. Check for background processes. Ensure sufficient free storage space. Update drivers. Check for overheating (clean vents).
Network connectivity issues	For wired: Check Ethernet cable and router/modem. For wireless: Verify WiFi password, restart router, ensure Mini PC is within range. Update network drivers.
Peripheral not recognized	Try a different USB port. Restart the Mini PC. Install necessary drivers for the peripheral.

9. WARRANTY AND SUPPORT

GMKtec offers a **3-year limited warranty** for each Mini PC, effective for sales starting October 2026. This includes a 1-year replacement policy and 2 years of parts replacement. The warranty covers defects due to design and workmanship.

For technical support or warranty claims, please contact GMKtec customer service. Refer to the contact information provided on the official GMKtec website or your purchase documentation.

For more information, visit the official GMKtec store:[GMKtec Store on Amazon](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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