GMKtec K8 Plus

GMKtec Gaming Mini PC K8 Plus AMD Ryzen 7 8845HS User Manual

1. Introduction

This manual provides essential information for setting up, operating, and maintaining your GMKtec Gaming Mini PC K8 Plus. This compact desktop computer is equipped with an AMD Ryzen 7 8845HS processor, 32GB DDR5 RAM, and a 2TB SSD, designed for gaming, video editing, and multitasking. Please read these instructions carefully before using the device.

2. Product Overview

The GMKtec K8 Plus Mini PC offers high performance in a small form factor. Key features include:

- **Processor:** AMD Ryzen 7 8845HS (8 Cores/16 Threads, up to 5.1GHz)
- **Graphics:** Integrated AMD Radeon 780M GPU (up to 2700MHz)
- **Memory:** 32GB DDR5 RAM (expandable up to 96GB)
- **Storage:** 2TB PCIe 4.0 M.2 SSD (expandable up to 8TB)
- **Networking:** Dual Intel i226V 2.5Gbps Ethernet, WiFi 6, Bluetooth 5.2
- **Video Output:** Supports up to 4 displays via 2x USB4, 1x HDMI 2.1 (8K@60Hz), 1x DisplayPort 2.1 (8K@60Hz)
- **Special Interface:** Oculink port for external GPU or storage expansion
- **Cooling:** Upgraded dual-fan cooling system with VC heat pipes
- **Power Modes:** Silent (35W), Balanced (54W), Performance (65W, peak 70W)

Front and Rear Panel Overview



Image: Front and rear view of the GMKtec K8 Plus Mini PC, highlighting all available ports and connections.

The front panel includes USB ports, a 3.5mm audio jack, and the power button. The rear panel features dual 2.5G LAN ports, HDMI 2.1, DisplayPort 2.1, USB4 ports, and the DC power input. A Kensington lock slot is also present for security.

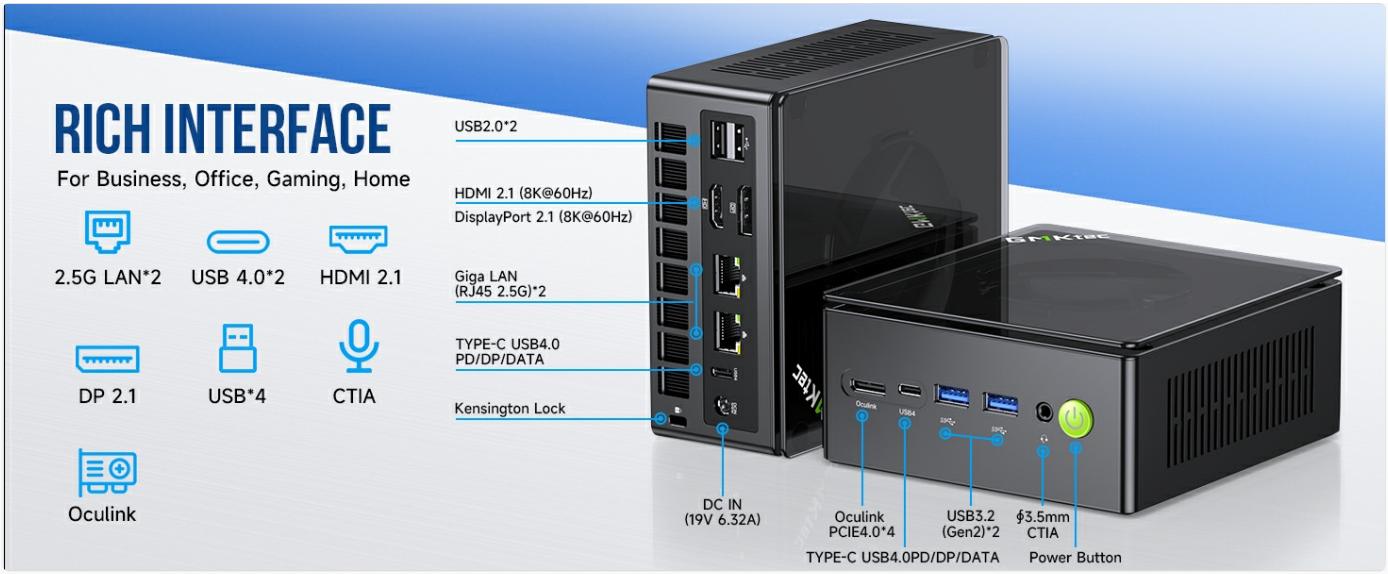


Image: A detailed diagram illustrating the various interfaces on the GMKtec K8 Plus, including 2.5G LAN, USB 4.0, HDMI 2.1, DP 2.1, USB, CTIA, and Oculink ports.

3. What's in the Box

Upon unpacking, ensure all the following items are present:

- GMKtec Nucbox K8 Plus AMD Ryzen 7 8845HS Mini PC Computer
- Power Supply & Cable
- HDMI Cable
- VESA Mount and Screws
- User Manual (this document)



Image: The retail packaging contents, including the Mini PC, power adapter, HDMI cable, VESA mount, and user manual.

4. Setup Instructions

4.1 Initial Connection

1. **Connect to Display:** Use the provided HDMI cable to connect the Mini PC to your monitor or TV. Alternatively, use

a DisplayPort or USB4 cable for compatible displays.

2. **Connect Peripherals:** Plug in your keyboard and mouse to the available USB ports.
3. **Connect Power:** Connect the power adapter to the DC IN port on the Mini PC, then plug the power cable into an electrical outlet.
4. **Power On:** Press the power button on the front of the Mini PC. The system will boot up.

4.2 Operating System Setup

Your GMKtec K8 Plus comes with Windows 11 Pro pre-installed. Follow the on-screen instructions to complete the initial Windows setup, including language, region, network connection, and user account creation.

4.3 RAM and SSD Upgrade

The Mini PC is designed for easy upgrades of RAM and SSD. It supports dual channel DDR5 SO-DIMM up to 96GB (2x 48GB) and dual PCIe 4.0 M.2 2280 SSDs up to 8TB (2x 4TB).

1. **Power Off:** Ensure the Mini PC is completely powered off and disconnected from the power supply.
2. **Open Chassis:** Carefully open the chassis according to the instructions in the detailed diagram.
3. **Install Components:** Insert the DDR5 SO-DIMM modules into the memory slots and the M.2 2280 SSDs into the PCIe 4.0 slots. Secure them as required.
4. **Close Chassis:** Reassemble the chassis securely.



Image: Diagram showing the internal layout for easy RAM and SSD installation, indicating dual M.2 2280 SSD slots and DDR5 SO-DIMM slots.

5. Operating Instructions

5.1 Power On/Off

- **Power On:** Press the power button on the front panel.
- **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 Performance Modes

The K8 Plus offers three customizable performance modes to balance power consumption and performance:

- **Silent Mode (35W TDP):** Optimized for quiet operation and lower power consumption.
- **Balanced Mode (54W TDP):** Standard mode for everyday tasks, offering a balance of performance and noise.
- **Performance Mode (65W, peak 70W TDP):** Maximizes CPU performance for demanding applications and gaming.

These modes can typically be adjusted within the system's BIOS/UEFI settings or through specific software provided by GMKtec.



Image: Visual representation of the three performance modes (Silent, Balanced, Performance) with their respective TDPs, CPU temperatures, and noise levels. Also shows the internal cooling components.

5.3 Multi-Display Setup

The Mini PC supports up to four displays simultaneously. Connect your monitors to the available HDMI 2.1, DisplayPort 2.1, and USB4 ports. Once connected, configure display settings within your operating system.



Image: An illustration of the GMKtec K8 Plus connected to four screens, demonstrating its multi-display capability via HDMI 2.1, DisplayPort 2.1, and dual USB4 ports.

5.4 Oculink Interface

The Oculink interface provides high-speed connectivity for external storage or GPU upgrades. This interface allows for faster data transfer rates compared to traditional interfaces. **Important: This interface does not support hot-swapping. Always plug and unplug Oculink devices when the PC is powered off.**

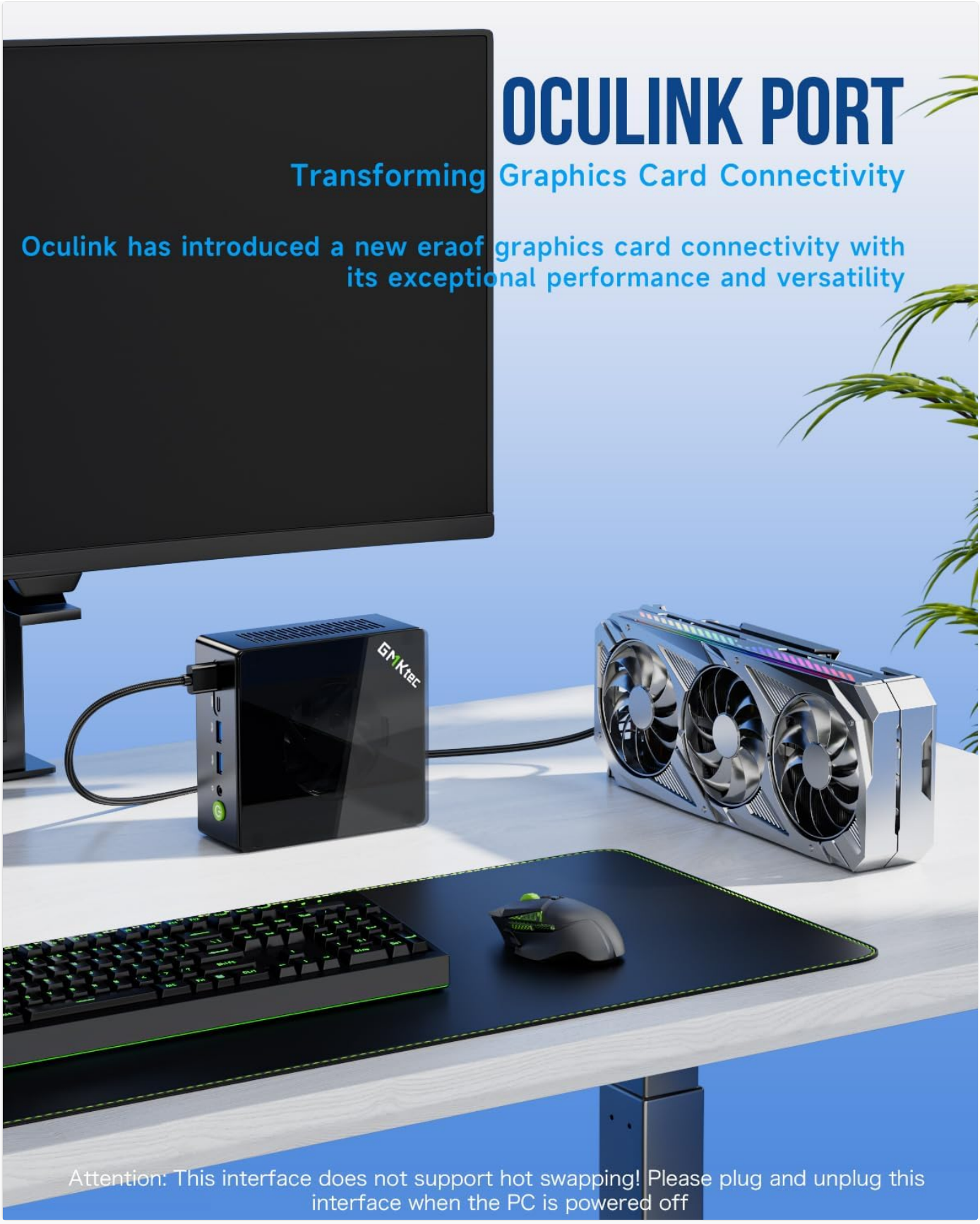


Image: The GMKtec K8 Plus Mini PC connected to an external graphics card via the Oculink port, demonstrating its expandability for enhanced graphics performance.

6. Maintenance

6.1 Cleaning

- Regularly clean the exterior of the Mini PC with a soft, dry cloth.
- Use compressed air to clear dust from ventilation openings and ports to ensure optimal airflow.
- Do not use liquid cleaners or solvents directly on the device.

6.2 Cooling System

The K8 Plus features an upgraded dual-fan cooling system. Ensure that the air vents are not obstructed to prevent overheating. Operate the device in a well-ventilated area.



Image: An exploded view of the GMKtec K8 Plus cooling system, showing the larger top and bottom cooling fans with a copper base for efficient heat dissipation.

7. Troubleshooting

If you encounter issues with your Mini PC, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working electrical outlet. Try a different outlet.
- **No Display:** Verify that the HDMI/DisplayPort/USB4 cable is correctly connected to both the Mini PC and the monitor. Ensure the monitor is powered on and set to the correct input source.
- **System Unresponsive:** If the system freezes, press and hold the power button for 5 seconds to force a shutdown, then restart the PC.
- **Peripheral Issues:** If a keyboard, mouse, or other USB device is not working, try connecting it to a different USB port or restarting the PC.
- **Network Connectivity:** For wired connections, ensure the Ethernet cable is properly connected. For Wi-Fi, check your router and network settings.

For further assistance, please contact GMKtec customer support.

8. Specifications

Feature	Specification
Brand	GMKtec

Feature	Specification
Model Number	K8 Plus
Processor	AMD Ryzen 7 8845HS (8C/16T, up to 5.1GHz)
Graphics	AMD Radeon 780M (Integrated, 2700MHz)
RAM	32GB DDR5 (5600MHz), Max 96GB
Storage	2TB PCIe 4.0 M.2 2280 SSD, Max 8TB (Dual Slot)
Operating System	Windows 11 Pro
Ethernet	Dual Intel i226V 2.5Gbps NIC
Wireless Connectivity	WiFi 6, Bluetooth 5.2
Video Output	2x USB4 (40Gbps), 1x HDMI 2.1 (8K@60Hz), 1x DisplayPort 2.1 (8K@60Hz)
USB Ports	Total 6 (including USB4)
Audio	3.5mm Audio Jack
Special Ports	Oculink Interface
Dimensions	5.2 x 5 x 2.3 inches
Cooling Method	Air (Upgraded Dual-Fan System)
Power Consumption	35-70 Watts (depending on mode)

9. Warranty and Support

9.1 Warranty Information

GMKtec offers a 1-year limited warranty for the K8 Plus Mini PC, effective from the date of purchase. This warranty covers defects in design and workmanship. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical support, warranty inquiries, or any questions regarding your GMKtec K8 Plus Mini PC, please contact the GMKtec-Shop directly. Their professional after-sales team is available to assist you.

You can typically find contact information on the official GMKtec website or through your purchase platform.

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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