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› GMKtec K6 Mini PC Gaming User Manual

GMKtec K6

GMKtec K6 Mini PC Gaming User Manual

Model: K6 | Brand: GMKtec

1. PRODUCT OVERVIEW

The GMKtec K6 Mini PC Gaming is a compact and powerful desktop computer designed for various computing tasks, including gaming, content creation, and office productivity. It features an AMD Ryzen 7 7840HS processor, integrated AMD Radeon 780M graphics, and supports high-speed memory and storage for a responsive user experience.



Figure 1.1: Front and rear view of the GMKtec K6 Mini PC, showcasing its compact design and various ports.

2. What's in the Box

Upon unboxing your GMKtec K6 Mini PC, please verify that all the following items are included:

- GMKtec Nucbox K6 AMD Ryzen 7 7840HS Mini PC
- Power Supply & Cable
- VESA Mount with Screws
- HDMI Cable
- User Manual

RETAIL BOXED PACKAGING



1. Nucbox K6 Mini PC

2. Power Supply & Cable

3. User Manual

4. HDMI Cable

5. VESA Mount with Screws

Figure 2.1: All components included in the GMKtec K6 Mini PC retail packaging.

Video 2.1: An official unboxing video demonstrating the contents of the GMKtec K6 Mini PC package and initial setup steps.

3. SETUP GUIDE

3.1 Initial Connection

1. Connect your monitor(s) to the HDMI, DisplayPort, or USB4 (Type-C) ports. The device supports simultaneous triple

screen display.

2. Connect your keyboard and mouse to the available USB ports.
3. For wired network access, connect an Ethernet cable to one of the 2.5Gbps LAN ports.
4. Connect the power supply to the DC IN port and plug it into a power outlet.
5. Press the power button on the front of the Mini PC to turn it on.

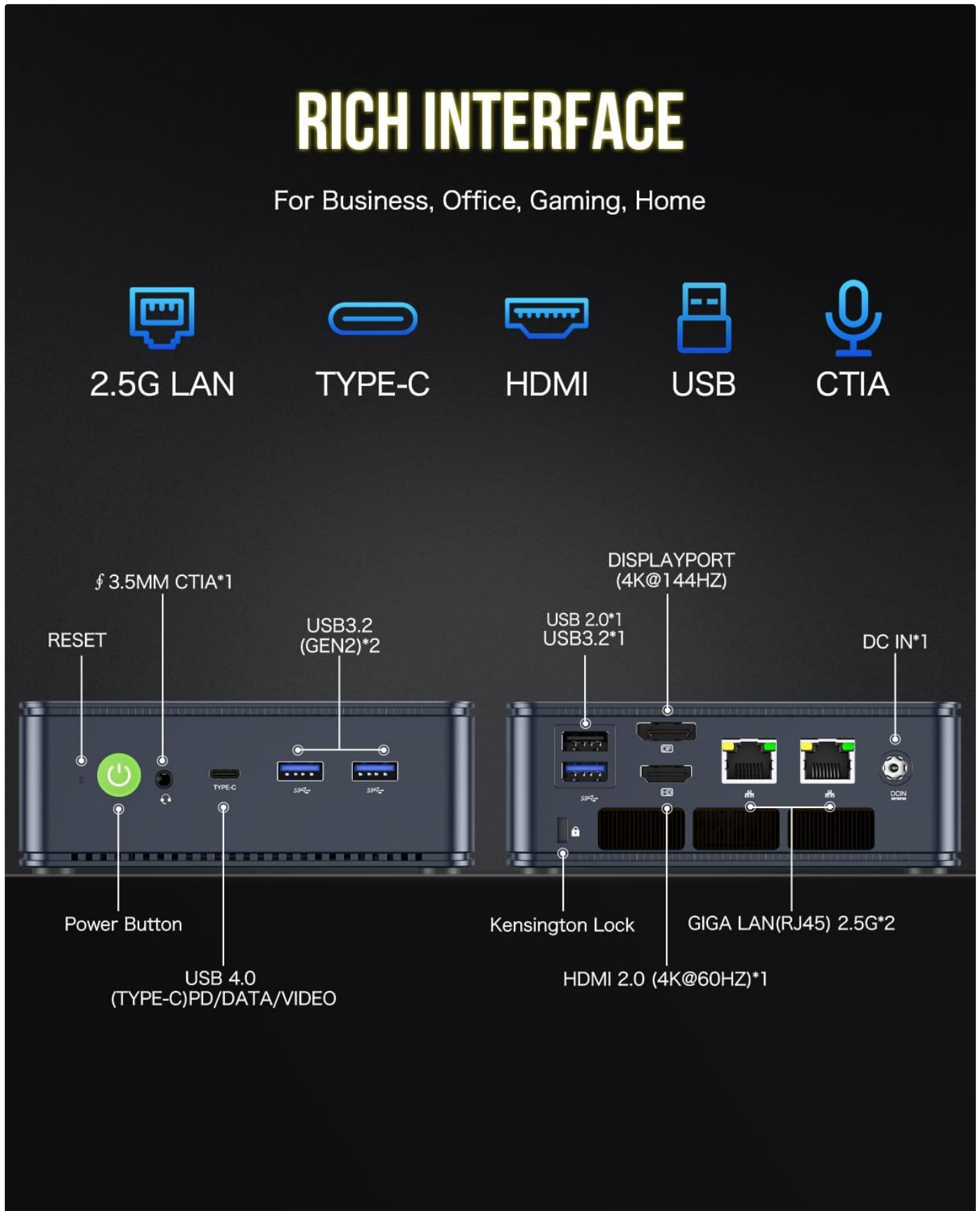


Figure 3.1: Detailed diagram of the rich interface ports on the GMKtec K6 Mini PC, including USB, HDMI, DisplayPort, and LAN ports.

3.2 VESA Mount Installation

The GMKtec K6 Mini PC can be mounted to the back of a compatible monitor using the included VESA mount and screws, saving desk space.



Figure 3.2: Illustration of the GMKtec K6 Mini PC in both desktop placement and VESA mount configurations.

Video 3.1: Official instructions for installing the GMKtec K6 Mini PC using the VESA mount.

3.3 RAM and SSD Expansion

The Nucbox K6 mini PC supports expansion of its DDR5 RAM up to 64GB and PCIe 4.0 SSD storage up to 4TB across two M.2 2280 slots. This process involves disassembling the unit to access the internal components.

EASY INSTALLATION

Disassembled design, upgrade RAM and SSD easy and convenient

DDR5 5600

Dual Channel SO-DIMM*2
MAX CAPACITY: 64GB

MAX 64GB

SSD M.2 2280

DUAL SLOT SSD M.2 2280*2
MAX CAPACITY: 4TB

MAX 4TB



Figure 3.3: Internal view of the GMKtec K6 Mini PC, highlighting the DDR5 SO-DIMM and M.2 2280 SSD slots for easy upgrades.

Video 3.2: Official guide demonstrating the process of expanding DDR5 RAM and SSD storage in the GMKtec K6 Mini PC.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **Power On:** Press the power button on the front panel. The power indicator light will illuminate.

- **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).

4.2 Network Connectivity

The GMKtec K6 supports both wired and wireless network connections.

- **Wired Connection:** Connect an Ethernet cable to either of the two 2.5Gbps LAN ports for high-speed internet access.
- **Wireless Connection:** The Mini PC is equipped with WiFi 6E, supporting 2.4GHz, 5.0GHz, and 6.0GHz wireless frequencies for a fast and stable connection. Enable Wi-Fi in your operating system settings and connect to your desired network.
- **Bluetooth:** Built-in Bluetooth 5.2 allows for stable and efficient connection to wireless devices such as keyboards, mice, and speakers.

SUPER SPEED WI-FI 6E



SUPER SPEED WIFI 6E

	Wi-Fi 6	Wi-Fi 6E
Frequency bands	2.4GHz and 5GHz	6GHz
Number of channels	80MHz and 160MHz	80MHz,160MHz and 320MHz
Compatibility	devices not compatiblewith Wi-Fi 6E networks	backward compatible with Wi-Fi 6 and Wi-Fi 5 devices
Security	WPA3	WPA2 and WPA3

Figure 4.1: Overview of the GMKtec K6 Mini PC's wireless capabilities, including Super Speed Wi-Fi 6E and Bluetooth 5.2.

DUAL LAN 2.5G HIGH SPEED ETHERNET

2X 2.5GbE RJ45 GIGABIT NETWORK

Read/Write Speed

2.5Gbps LAN



2.5x



1000Mbps LAN



2500 MB/S



Figure 4.2: Visual representation of the dual 2.5Gbps LAN ports and their high-speed capabilities on the GMKtec K6 Mini PC.

5. MAINTENANCE

5.1 Cooling System

The GMKtec K6 Mini PC features an improved quiet cooling fan system with copper cooling and multiple exhaust vents to maintain optimal operating temperatures. Regular cleaning of dust from the vents is recommended to ensure efficient

cooling.

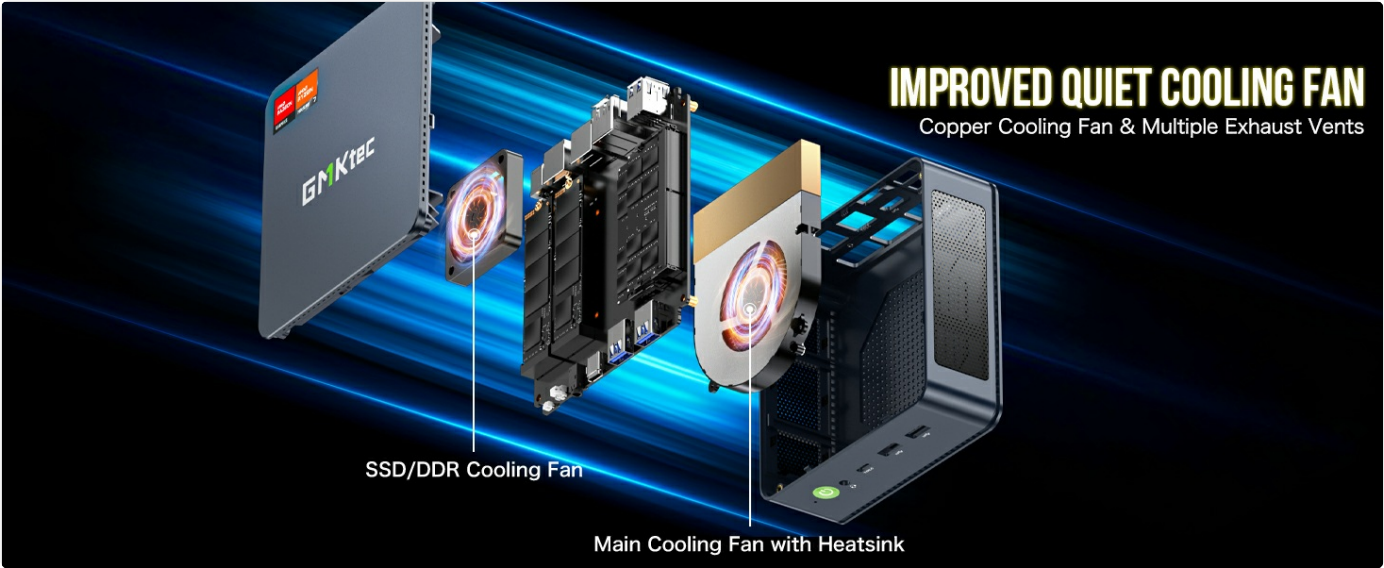


Figure 5.1: Diagram illustrating the internal cooling components of the GMKtec K6 Mini PC, including the SSD/DDR cooling fan and main cooling fan with heatsink.

5.2 General Care

- Keep the Mini PC in a well-ventilated area to prevent overheating.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Use a soft, dry cloth for cleaning the exterior. Do not use liquid cleaners.

6. TROUBLESHOOTING

If you encounter issues with your GMKtec K6 Mini PC, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet if necessary.
- **No Display:** Verify that the HDMI/DisplayPort/USB-C cable is firmly connected to both the Mini PC and the monitor. Ensure the monitor is powered on and set to the correct input source.
- **No Internet Connection:** For wired connections, check the Ethernet cable and router status. For Wi-Fi, ensure Wi-Fi is enabled in Windows settings and you are connected to the correct network with the correct password.
- **Slow Performance:** Close unnecessary applications. Check for background processes that may be consuming resources. Ensure adequate ventilation for cooling.
- **Peripheral Issues:** Try connecting USB devices to different ports. Ensure drivers for specific peripherals are installed if required.

If the problem persists, please contact GMKtec customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Processor	AMD Ryzen 7 7840HS (8C/16T, up to 5.1Ghz)
Graphics	AMD Radeon 780M 12 Cores (Integrated)
RAM	32GB DDR5 5600MHz (2x16GB), expandable to 64GB

Feature	Detail
Storage	1TB M.2 2280 PCIe 4.0 SSD, dual slot expansion up to 4TB
Operating System	Windows 11 Pro
Video Output	USB4.0 (8K@60Hz), HDMI 2.0 (4K@60Hz), DisplayPort (4K@144Hz) - Triple Display Support
LAN	Dual 2.5Gbps RJ45
Wireless Connectivity	WiFi 6E (2.4GHz, 5.0GHz, 6.0GHz), Bluetooth 5.2
USB Ports	1x USB 2.0, 3x USB 3.0, 1x USB4.0 (Type-C)
Audio	3.5mm CTIA Audio Jack
Dimensions (LxWxH)	4 x 4 x 2 inches
Weight	12.6 ounces

8. WARRANTY AND SUPPORT

GMKtec provides comprehensive support for its products.

- **Warranty:** A 1-year limited warranty is offered for each Mini PC, covering defects due to design and workmanship from the date of purchase.
- **Technical Support:** Lifetime technical support is available.
- **Customer Service:** For any inquiries or issues, you can contact the professional after-sales team.



Figure 8.1: Information on how to contact GMKtec for Amazon support and after-sales support via email.

For direct support, you can email the After-Sales Team at support@gmktec.com.

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