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› GMKtec K10 Mini PC Workstation User Manual

GMKtec K10

GMKtec K10 Mini PC Workstation User Manual

Model: K10 | Brand: GMKtec

Intel Core i9 13900HK, 64GB DDR5 RAM, 1TB SSD

1. INTRODUCTION

This user manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your GMKtec K10 Mini PC Workstation. Designed for powerful performance and versatility, the K10 is ideal for demanding tasks, multitasking, and various professional and personal applications.

2. WHAT'S IN THE BOX

Please verify that all items are present in your package:

- GMKtec Nucbox K10 Intel Core i9 13900HK Mini PC Computer
- HDMI Cable
- Power Supply and Cable
- WiFi Antenna (2 units)
- User Manual (this document)

K10 PACKAGE CONTENTS

1. K10 Mini PC
2. User Manual
3. Power Adapter
4. HDMI Cable
5. WiFi Antenna



Image: Contents of the GMKtec K10 package, including the mini PC, power adapter, HDMI cable, and WiFi antennas.

3. PRODUCT FEATURES

3.1 Powerful Processor

The GMKtec K10 is equipped with the 13th Gen Intel Core i9-13900HK CPU, featuring 14 cores and 20 threads, with a maximum frequency of 5.4 GHz. This processor delivers exceptional performance for demanding applications and efficient multitasking.

INTEL CORE I9-13900HK PROCESSOR

14 Cores 20 Threads	24 MB Intel Smart Cache	5.4 GHz Turbo Boost	45-70 W TPD
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Cinebench R23 (Multi-Core)



Image: Detailed view of the Intel Core i9-13900HK processor and its performance metrics.

3.2 Graphics Performance

Integrated Intel Iris Xe Graphics 96EU provides dedicated graphics performance suitable for video editing, work, and light gaming. It supports AV1 video decoding for enhanced media experiences.



Image: Visual representation of the Intel Iris Xe Graphics capabilities.

3.3 Memory and Storage

The K10 comes with 64GB of DDR5 5600 MHz dual-channel RAM and a 1TB PCIe X4 NVMe M.2 2280 SSD. It supports up to 3x M.2 2280 PCIe slots for storage expansion up to 12TB (3x 4TB) and up to 96GB DDR5 memory.

EXPANSION SLOTS

M.2 2280 PCIE 4.0*3 (MAX. 12TB) & DDR5 SO-DIMM*2 (MAX 96GB)



32GB

DDR5 5600MHz SO-DIMM*2



2TB

PCIe slot (X8) For GPUs or for M. 2 NVMe SSD expansion cards

Image: Illustration of the internal memory and storage expansion capabilities.

3.4 Connectivity

The K10 offers extensive connectivity options:

- **USB Ports:** 4x USB 2.0 (480 Mbps), 4x USB 3.2 (10 Gbps).
- **Network:** Realtek RTL8125BG 2.5G Ethernet port, WiFi 6, Bluetooth 5.2.
- **Audio:** 1x 3.5mm audio jack (headphone + microphone).
- **Industrial Port:** 1x COM port for industrial automation and embedded systems.



Image: Front and rear port layout of the GMKtec K10 Mini PC.

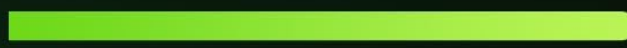
2.5GBE HIGH SPEED ETHERNET

Fast Network Upload/Download Speeds

Read/Write Speed

2.5Gbps LAN

1000Mbps LAN



2.5x



2500 MB/S



Image: Demonstration of the 2.5GbE high-speed Ethernet port.

Your browser does not support the video tag.

Video: An overview of the GMKtec Mini PC Workstation, highlighting its features and connectivity options.

3.5 Quad-Screen 8K Display Output

The K10 supports ultra-high-definition display and multi-screen setups with two HDMI 2.0 (4K @ 60Hz) ports, one DisplayPort 1.4 (8K @ 60Hz), and one Type-C (DP/Data) 10 Gbps/s port. This makes it suitable for professional work and business applications requiring multiple displays.

QUAD SCREEN DISPLAY OUTPUT UP TO 4K/8K

HDMI*2, DP and Type-C DP ports supporting up to 4K@60Hz and 8K@60Hz for connecting multiple 4K and 8K displays.



Image: Example of a quad-screen display setup powered by the K10 Mini PC.

3.6 Cooling System

The K10 features a large super cooling fan system with a heat dissipation copper plate, dual D8 heat pipes, and an aluminum plate bracket with 6W thermal conductive silicone. This advanced cooling ensures stable performance even under heavy loads.

LARGE SUPER COOLING FAN SYSTEM

Heat Dissipation Copper Plate + Dual D8 Heat Pipes +
Aluminum Plate Bracket with 6W Thermal Conductive Silicone



Image: Internal view of the K10's cooling system.

70W



Power	CPU (Celcius)	Noise (dB)
Quiet (35-40W TDP)	50	32-35
Normal (54-60W TDP)	65	36-37
Performance (65-70W)	75	39-40



The VRAM memory allocation can be adjusted up to 16GB

Image: Performance and thermal characteristics across different power modes.

4. SETUP GUIDE

1. **Connect WiFi Antennas:** Screw the two included WiFi antennas into the designated ports on the rear of the Mini PC.

2. **Connect Display:** Connect your monitor(s) to the Mini PC using the HDMI, DisplayPort, or Type-C ports. Use the provided HDMI cable or your own compatible cables.
3. **Connect Peripherals:** Plug in your keyboard, mouse, and any other USB devices into the available USB ports.
4. **Connect Power:** Connect the power supply cable to the DC IN port on the Mini PC, then plug the power adapter into a wall outlet.
5. **Power On:** Press the power button on the front of the Mini PC. The system will boot up.
6. **Initial Setup:** Follow the on-screen instructions to complete the Windows 11 Pro operating system setup, including language, region, network connection, and user account creation.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **Power On:** Press the power button once.
- **Shut Down:** Click the Start button in Windows, then select Power > Shut down.
- **Restart:** Click the Start button in Windows, then select Power > Restart.
- **Sleep:** Click the Start button in Windows, then select Power > Sleep.
- **Forced Shutdown:** If the system is unresponsive, press and hold the power button for approximately 5-10 seconds until the device powers off. Use this only as a last resort to prevent data loss.

5.2 Operating System

Your GMKtec K10 Mini PC comes pre-installed with Windows 11 Pro. Familiarize yourself with the Windows interface for optimal use. Regular updates are recommended for security and performance.

5.3 Connecting to Network

- **Wired Connection:** Connect an Ethernet cable from your router/modem to the 2.5G Ethernet port on the Mini PC.
- **Wireless Connection:**
 - a. Ensure WiFi antennas are connected.
 - b. Click the Network icon in the Windows taskbar.
 - c. Select your desired WiFi network from the list and click "Connect".
 - d. Enter the network security key (password) if prompted.

6. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to clear dust from the ventilation holes to ensure proper airflow and cooling. Do not use liquid cleaners directly on the device.
- **Software Updates:** Keep your operating system and drivers updated. Windows Update will handle most OS updates automatically. Check the GMKtec website for the latest driver updates for your K10 model.
- **Data Backup:** Regularly back up important data to an external drive or cloud storage to prevent data loss.
- **Storage Management:** Periodically check your storage usage and delete unnecessary files to maintain optimal

performance.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Does not turn on	Power cable loose; Power adapter faulty; Power outlet issue.	Ensure power cable is securely connected. Try a different power outlet. Contact support if issues persist.
No display on monitor	Display cable loose/faulty; Incorrect input source on monitor; Monitor off.	Check display cable connections. Ensure monitor is on and set to the correct input source (HDMI, DP, Type-C). Try a different cable or monitor.
No internet connection (wired)	Ethernet cable loose/faulty; Router/modem issue; Network driver issue.	Check Ethernet cable connection. Restart router/modem. Update network drivers.
No internet connection (wireless)	WiFi antennas not connected; Incorrect WiFi password; Router/modem issue; WiFi driver issue.	Ensure WiFi antennas are securely connected. Verify WiFi password. Restart router/modem. Update WiFi drivers.
System slow or unresponsive	Too many applications running; Low storage space; Overheating.	Close unnecessary applications. Free up disk space. Ensure proper ventilation and clean dust from vents.

8. SPECIFICATIONS

Feature	Detail
Brand	GMKtec
Series	K10
Item Model Number	K10
Operating System	OS Pro (Windows 11 Pro)
Processor	13th Gen Intel Core i9-13900HK (14 Cores, 20 Threads, up to 5.4 GHz)
RAM	64GB DDR5 5600 MHz (Dual-channel, SO-DIMM)
Memory Slots Available	2
Hard Drive	1TB PCIe 4.0 M.2 2280 SSD
Storage Expansion	Up to 3x M.2 2280 PCIE slots (up to 12TB total)

Feature	Detail
Graphics Coprocessor	Intel Iris Xe Graphics 1.5GHz
Display Output	2x HDMI 2.0 (4K@60Hz), 1x DisplayPort 1.4 (8K@60Hz), 1x Type-C (DP/Data)
USB Ports	4x USB 2.0, 4x USB 3.2 (10 Gbps)
Network	2.5G Ethernet (RJ45), WiFi 6 (802.11ax), Bluetooth 5.2
Audio	1x 3.5mm audio jack (headphone + microphone)
Other Ports	1x COM port, 1x DC IN
Item Weight	4.86 pounds
Product Dimensions	7.4 x 7 x 1.5 inches
Color	Black

9. WARRANTY AND SUPPORT

GMKtec offers a 1-year limited warranty for each Mini PC, starting from the date of purchase. All defects due to design and workmanship are covered. For technical support, warranty claims, or any inquiries, please contact GMKtec customer service through their official channels or the seller's support page on Amazon. For more information, visit the official GMKtec Store:[GMKtec Amazon Store](#)

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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