

GMKtec K10

GMKtec NucBox K10 Mini PC User Manual

Model: K10

1. INTRODUCTION

The GMKtec NucBox K10 is a high-performance mini PC designed for a wide range of applications, from demanding computing tasks to immersive entertainment. It features an Intel Core i9-13900HK processor, DDR5 RAM, and versatile connectivity options, all within a compact form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your NucBox K10.



Figure 1: The GMKtec NucBox K10 Mini PC, a compact and powerful computing device.

2. SETUP GUIDE

2.1 Package Contents

Before you begin, ensure all items are present in the package:

- GMKtec K10 Mini PC Main Unit
- Power Adapter
- HDMI Cable
- User Manual (Japanese, for reference)

K10 Mini PC 付属品一覧

1. K10 Mini PC本体
2. 取扱説明書
3. 保証書
4. 電源アダプター
5. HDMIケーブル



Figure 2: Contents of the GMKtec NucBox K10 Mini PC package, including the main unit, power adapter, and HDMI cable.

2.2 Connecting Peripherals

Connect your monitor, keyboard, and mouse to the appropriate ports on the mini PC. The NucBox K10 supports multiple display outputs, including HDMI and DisplayPort, for up to four screens.

RICH INTERFACE WITH 8*USB PORTS!

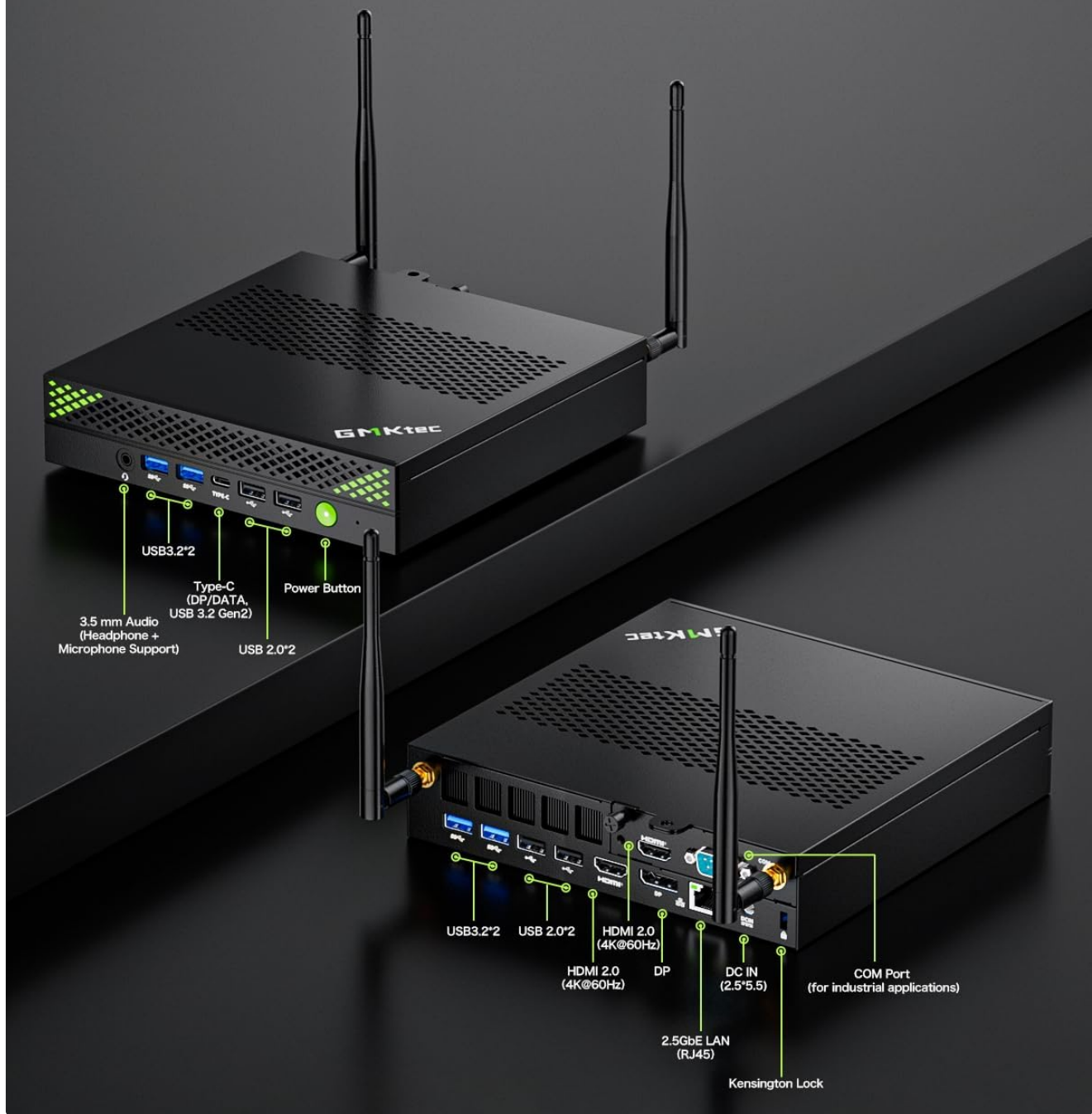


Figure 3: Detailed diagram of the GMKtec NucBox K10 Mini PC's various ports and interfaces, including USB, HDMI, DP, Type-C, RJ45, and COM ports.

2.3 Power On

Connect the power adapter to the DC IN port on the mini PC and then plug it into a power outlet. Press the power button located on the front of the device to turn it on. The system will boot into Windows 11 Pro.

3. OPERATING INSTRUCTIONS

3.1 Initial Setup and Windows 11 Pro

Your NucBox K10 comes with Windows 11 Pro pre-installed. Follow the on-screen instructions for initial setup, including language, region, and network configuration. Windows Defender is pre-installed for real-time protection.

3.2 Network Connectivity

The mini PC supports both wired and wireless network connections:

- **Wired LAN:** Connect an Ethernet cable to the 2.5G RJ45 port for high-speed internet access.
- **Wi-Fi 6:** The device is equipped with Wi-Fi 6 for fast and stable wireless communication up to 2.4Gbps. Connect to your preferred Wi-Fi network through Windows settings.
- **Bluetooth 5.2:** Use Bluetooth 5.2 to connect wireless peripherals such as mice, keyboards, and headphones.

INTEL IRIS XE GRAPHICS 96EU

ビデオ編集、作業、ゲーム
効率的な専用グラフィック性能をお楽しみください

96EU
高仕様

1500MHz
最大周波数

AV1
ビデオデコード



Figure 4: The GMKtec NucBox K10 Mini PC features advanced WiFi 6 and 2.5G LAN for high-speed and stable network connectivity.

3.3 Multi-Display Output

The NucBox K10 supports up to four displays simultaneously, with resolutions up to 4K@60Hz via HDMI 2.0 and 8K@60Hz via DisplayPort 1.4. Connect your monitors to the available HDMI, DisplayPort, and Type-C (DP/DATA) ports. Configure display settings within Windows to extend or duplicate your desktop.

4画面8Kディスプレイ出力

最大8K@60Hz対応のHDMI*2、DP、Type-C DPポートで、4K、8Kディスプレイを複数接続



Figure 5: A user operating the GMKtec NucBox K10 Mini PC with a multi-monitor setup, demonstrating its 4K/8K display output capabilities.

4. MAINTENANCE

4.1 Cooling System

The NucBox K10 is equipped with an efficient cooling fan system to maintain optimal operating temperatures. Ensure proper airflow around the device and keep ventilation openings clear of obstructions. Regular cleaning of dust from the vents can help maintain cooling performance.

過冷却ファンシステム

モニタ-の1.5倍の超冷却ファンを内蔵し、
臨場感あふれる体験を実現します。



Figure 6: Internal view of the GMKtec NucBox K10 Mini PC, highlighting its integrated cooling fan system for efficient heat dissipation.

4.2 Storage and Memory Expansion

The NucBox K10 supports expansion of both RAM and SSD storage:

- **RAM:** The device comes with 32GB DDR5 RAM (2x16GB) and can be expanded up to 96GB.
- **SSD:** It includes a 1TB M.2 2280 PCIe 4.0 SSD. Storage can be expanded up to 12TB using additional M.2 2280 slots.

For expansion, consult a qualified technician or refer to detailed upgrade guides available online to avoid damaging the device.

ミニPCボックス、大容量(最大96GB)

32GB DDR5 16GB SO-DIMM*2 最大96GBまで拡張可能



The diagram illustrates the GMKtec NucBox K10 Mini PC, a small black device with two antennas. It is shown with three NVMe M.2 SSDs and two DDR5 5600 SO-DIMM modules inserted into its expansion slots. The background features a dynamic, colorful light streak effect.

Component	Capacity	Type
RAM	32GB (最大96GB)	DDR5 SO-DIMM*2
ROM	1TB (最大12TB)	M.2 2280*3 SSD

Figure 7: Diagram illustrating the expandable RAM (DDR5 SO-DIMM) and SSD (NVMe M.2 2280) slots within the GMKtec NucBox K10 Mini PC.

5. TROUBLESHOOTING

5.1 Common Issues and Solutions

- **No Power:** Ensure the power adapter is securely connected to both the mini PC and a working power outlet. Check if the power button light is on.
- **No Display:** Verify that the HDMI or DisplayPort 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. Try a different cable or monitor if possible.
- **Network Connectivity Issues:** For Wi-Fi, check if the Wi-Fi adapter is enabled in Windows settings and if you are connected to the correct network. For wired LAN, ensure the Ethernet cable is properly connected and your router is functioning.
- **Peripheral Not Recognized:** If a USB device (keyboard, mouse, external drive) is not working, try connecting it to a different USB port. Ensure device drivers are up to date in Windows Device Manager.
- **Slow Performance:** Close unnecessary applications. Check Task Manager for high CPU or RAM usage. Ensure sufficient free space on the SSD.

5.2 Keyboard Layout (Japanese Specific)

If you are using a Japanese keyboard, the initial Windows setup might default to an English keyboard layout. To change this, navigate to Windows Settings > Time & Language > Language & Region, and add or adjust the Japanese keyboard layout to ensure correct character input.

6. SPECIFICATIONS

Feature	Specification
Brand	GMKtec
Model	NucBox K10
Processor	Intel Core i9-13900HK (14 Cores, 20 Threads, up to 5.4 GHz)
Graphics	Intel Iris Xe Graphics eligible (up to 1.5GHz)
RAM	32GB DDR5 (2x16GB), expandable up to 96GB
Storage	1TB M.2 2280 PCIe 4.0 SSD, expandable up to 12TB
Operating System	Windows 11 Pro (also supports Linux, Ubuntu, Windows 10)
Video Output	2x HDMI 2.0 (4K@60Hz), 1x DisplayPort 1.4 (8K@60Hz), 1x Type-C (DP/DATA) - Supports up to 4 displays
USB Ports	8x USB-A ports (mix of USB 3.2 and USB 2.0), 1x Type-C (USB 3.2 Gen2)
Network	2.5G RJ45 LAN, Wi-Fi 6, Bluetooth 5.2
Other Ports	3.5mm Audio Jack (Headphone/Mic), COM Port (Serial), Kensington Lock Slot
Dimensions	18.8 x 17.8 x 3.89 cm
Weight	1.06 kg

●内蔵2.5G ギガビット LAN ポート

仕事やゲームのデータを高速かつ効率的に送信します

●AX201 WIFI 6！外付けWiFi アンテナ で通信速度が大幅アップ！

外付け2本のWiFi強化アンテナを搭載し、WiFi効率が130%以上向上。
安定した接続と高速データ転送で、快適なインターネット体験を提供します。



Figure 8: The GMKtec NucBox K10 features integrated Intel Iris Xe Graphics for efficient visual processing.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The GMKtec NucBox K10 Mini PC is PSE (Electrical Appliance and Material Safety Act) certified and has undergone strict quality tests. It comes with a 1-year manufacturer's warranty. In the unlikely event of a malfunction, repair or replacement services will be provided.

7.2 Customer Support

For technical assistance, warranty claims, or any product-related inquiries, please contact GMKtec customer support. Refer to the contact information provided on the official GMKtec website or your purchase documentation.