GMK KB1

GMK NucBox KB1 Mini PC User Manual
Model: KB1

INTRODUCTION

The GMK NucBox KB1 is an ultra-compact mini PC designed for various computing needs, from home entertainment to office tasks. Powered by an Intel Celeron J4125 processor, it offers efficient performance in a palm-sized form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your NucBox KB1.

Figure 1: GMK NucBox KB1 Mini PC highlighting its compact size, Intel Celeron J4125 processor, 8GB RAM, 128GB SSD, Intel UHD Graphics 600, Ultra-Stable Bluetooth, 867Mb/s Dual Band WiFi, 4K UHD Video Output, and Textured Metal Design.

Video 1: Official product video showcasing the GMK NucBox Mini PC's features, including its compact size, processor, storage, ports, and thermal design.

Setup

Follow these steps to set up your GMK NucBox KB1 Mini PC:

1. **Connect to Display:** Use an HDMI cable to connect the NucBox to your monitor or TV. The device supports 4K resolution at 60Hz via HDMI.

2. **Connect Peripherals:** Plug in your USB keyboard and mouse into the available USB 3.0 ports.

3. **Power On:** Connect the USB-C power adapter to the NucBox and a power outlet. Press the power button located on the front of the device.

4. **Initial Boot:** The NucBox will boot into Windows 11. Follow the on-screen instructions to complete the initial setup of the operating system.

Figure 2: Rear view of the GMK NucBox KB1 Mini PC showing its ports: Micro SD 3.0 slot, 3.5mm Audio Jack, USB-C (DC IN Only via AC Charger), 2x USB-A 3.0 ports, and HDMI (4K@60Hz) output.

Operating

The GMK NucBox KB1 comes pre-installed with Windows 11 (64-bit), providing a familiar and versatile operating environment. It is suitable for a range of tasks including web browsing, document editing, and 4K video playback.

- **Daily Computing:** The Intel Celeron J4125 processor and 8GB DDR4 RAM ensure smooth performance for everyday applications and multitasking.

- **4K Video Output:** Connect to a 4K display via HDMI for high-definition visual experiences. Note that while it supports 4K, HDR output is not supported by the Gemini Lake chips.

- **Connectivity:** Utilize Dual Band Wi-Fi for fast wireless internet access and Bluetooth 4.2 for connecting wireless peripherals like headphones or speakers.

Figure 3: The GMK NucBox KB1 Mini PC connected to a 4K television, demonstrating its capability for high-resolution home entertainment.

MAINTENANCE

To ensure optimal performance and longevity of your NucBox KB1, consider the following maintenance tips:

- **Storage Upgrade:** The internal 128GB SSD (M.2 2242 SSD) can be upgraded. To access it, carefully

remove the four screws on the bottom panel. This allows for increased storage capacity if needed.

- **Cooling:** The NucBox features a cooling fan. Ensure the top ventilation grille is not obstructed to allow for proper airflow. The metal casing also aids in heat dissipation.

- **Software Updates:** Regularly update Windows 11 and device drivers to maintain system stability and security.

Figure 4: An exploded view of the NucBox KB1, illustrating the internal DDR4 8GB memory and the M.2 2242 SSD (128GB/512GB options), which can be upgraded.

TROUBLESHOOTING

If you encounter issues with your NucBox KB1, refer to the following common problems and solutions:

- **No Display/Video Output Issues:**

  - Ensure the HDMI cable is securely connected to both the NucBox and the display.
  - Verify the display is set to the correct input source.
  - Try a different HDMI cable or display if possible.
  - Some users have reported video output instability, especially under heavy load or with certain 4K displays. If issues persist, try reducing the display resolution.

- **Device Not Powering On:**

  - Check that the USB-C power adapter is correctly connected and the power outlet is functional.
  - Press and hold the power button for a few seconds.
  - If the unit remains unresponsive, unplug the power, wait a few moments, and plug it back in.

- **Excessive Fan Noise/Heat:**

  - Ensure the NucBox is placed in a well-ventilated area and the top fan grille is clear of obstructions.
  - High CPU usage can lead to increased fan activity and heat. Monitor background processes.

SPECIFICATIONS

Feature	Specification

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Processor	Intel Celeron J4125 (2.7 GHz, 4 Cores)
Graphics Coprocessor	Intel UHD Graphics 600
RAM	8 GB DDR4
Storage	128 GB M.2 2242 SSD (upgradable)
Operating System	Windows 11 (64-bit)
Max Screen Resolution	3840 x 2160 pixels (4K)
Video Output	HDMI v1.4 (4K@60Hz)
USB Ports	2x USB 3.0, 1x USB-C (Power Only)
Other Ports	Micro SD 3.0 slot, 3.5mm Audio Jack
Wireless Connectivity	Dual Band Wi-Fi (867Mbps), Bluetooth 4.2
Dimensions (LxWxH)	2.44 x 2.44 x 1.65 inches
Weight	15.8 ounces

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official GMK website. It is recommended to keep backups of your data, especially for mission-critical tasks, as some users have reported varied experiences with product reliability and customer service responsiveness.