

KINGDEL NC1037U

KINGDEL Industrial Fanless Mini PC NC1037U User Manual

Model: NC1037U

1. SETUP GUIDE

1.1 Unboxing and Package Contents

Carefully unpack your KINGDEL Industrial Fanless Mini PC. Verify that all components listed below are present.

- Mini PC
- Power Supply
- Power Cable
- Antenna (2x)
- Screws (for internal storage expansion)

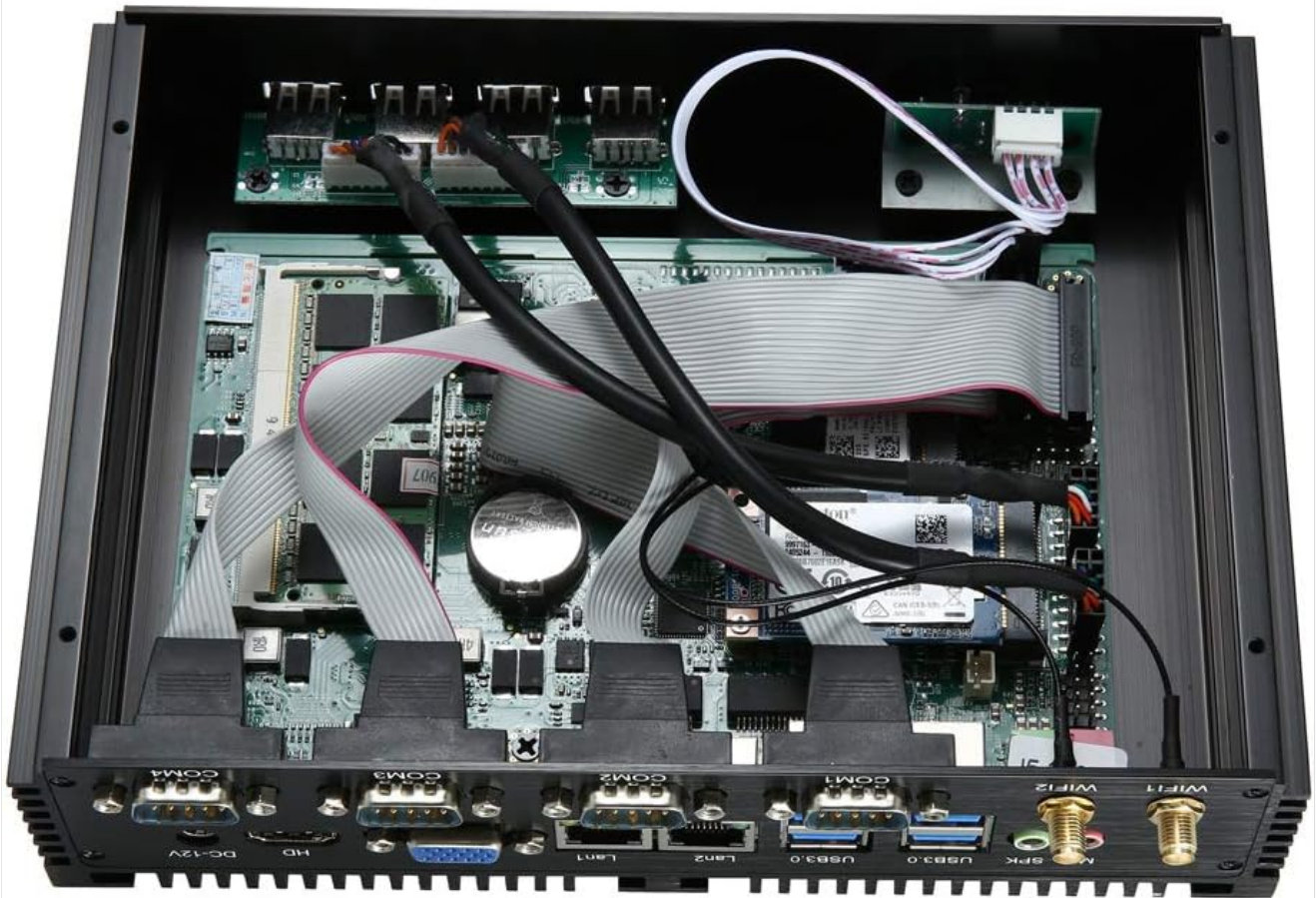


Figure 1.1: Package Contents

1.2 Connecting Peripherals

Before powering on, connect your peripherals to the appropriate ports on the Mini PC.

1. **Display:** Connect your monitor(s) using the HD Port or VGA port. This unit supports dual display output.
2. **Keyboard and Mouse:** Connect your USB keyboard and mouse to any of the available USB 2.0 or USB 3.0 ports.
3. **Network:** For wired network access, connect an Ethernet cable to one of the two NIC (Network Interface Card) ports. For wireless connectivity, attach the provided antennas to the Wi-Fi connectors.
4. **Serial Devices:** If using industrial equipment, connect serial devices to the four COM RS232 ports.
5. **Audio:** Connect speakers or headphones to the audio output port, or a microphone to the audio input port.



Figure 1.2: Rear Panel Ports

1.3 Powering On

Once all peripherals are connected, plug the power supply into the DC-12V port on the Mini PC and then into a power outlet. Press the power button located on the front panel to turn on the device.



Figure 1.3: Front Panel with Power Button

1.4 Initial Operating System Setup

The Mini PC comes with a pre-installed operating system. Upon first boot, you may need to complete the initial setup process for Windows. It is recommended to verify the operating system's activation status and consider performing a clean installation to ensure system integrity and remove any pre-configured user accounts or software.

2. OPERATING INSTRUCTIONS

2.1 Basic Operation

The KINGDEL Mini PC is designed for continuous and silent operation due to its fanless design. To power off, use the operating system's shutdown function. A short press of the power button will typically initiate a soft shutdown, while a long press (5-7 seconds) will force a hard shutdown.

2.2 Network Connectivity

- **Wired Ethernet:** Connect an Ethernet cable to either of the two Gigabit Ethernet ports for a stable and high-speed network connection.
- **Wireless Wi-Fi:** Ensure the antennas are securely attached. Configure Wi-Fi settings through the operating system's network preferences. The device supports 2.4 GHz and 5 GHz dual-band wireless connectivity.

2.3 Dual Display Configuration

The Mini PC supports connecting two displays simultaneously via the HD Port and VGA port. To configure dual displays, access your operating system's display settings. You can extend your desktop across both screens or duplicate the display.

2.4 USB and Serial Port Usage

Utilize the multiple USB 2.0 and USB 3.0 ports for connecting various peripherals such as external storage, printers, or other USB-compatible devices. The four RS232 COM ports are specifically for industrial applications requiring serial communication.

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Video 2.1: Demonstration of KINGDEL Mini PC setup, boot-up, dual monitor display, and various application uses including stock analysis, video editing, and gaming.

3. MAINTENANCE

3.1 Cleaning

Due to its fanless design and full metal case, the KINGDEL Mini PC is less susceptible to dust accumulation internally. However, regularly wipe the exterior with a soft, dry cloth to remove dust and maintain optimal heat dissipation. Avoid using liquid cleaners directly on the device.

3.2 Software Updates

Keep your operating system and drivers updated to ensure optimal performance and security. Regularly check for updates through your OS settings and the manufacturer's website.

3.3 Storage Management

The device uses an mSATA SSD. Periodically check the SSD health and ensure sufficient free space for system operations and updates. Avoid unnecessary writes to prolong the lifespan of the SSD.

4. TROUBLESHOOTING

4.1 No Power

- Ensure the power cable is securely connected to both the Mini PC and the power outlet.
- Verify the power outlet is functional by testing it with another device.
- Check the power adapter for any visible damage.

4.2 No Display Output

- Confirm that the monitor is powered on and correctly connected to the Mini PC's HD Port or VGA port.
- Try a different display cable or monitor if available.
- Ensure the correct input source is selected on your monitor.

4.3 Operating System Issues

- If experiencing activation issues or unexpected software behavior, consider performing a clean installation of the operating system. Back up all important data before proceeding.
- For driver-related problems, visit the Intel website for the latest drivers compatible with the Celeron CPU and integrated graphics.

4.4 Overheating Concerns

While designed to be fanless, the metal case will naturally get warm during operation as it dissipates heat. Ensure the Mini PC is placed in a well-ventilated area and not obstructed. If the device becomes excessively hot or experiences performance throttling, ensure adequate airflow around the unit.

5. SPECIFICATIONS

Feature	Detail
Model Number	NC1037U
Processor	Intel Celeron 1007U/1037U Dual Core, 2M Cache, 1.5 GHz
RAM	8GB DDR3L RAM (SODIMM, 1600 MHz)
Storage	128GB mSATA SSD
Graphics	Integrated Intel HD Graphics
Video Output	1x HD Port, 1x VGA (Supports Dual Display)
USB Ports	4x USB 3.0, 4x USB 2.0 (Total 8)
Network	2x Ethernet (NICs), Wi-Fi (2.4 GHz/5 GHz Dual Band, 802.11a/b/g/n)
Serial Ports	4x COM RS232

Audio	Speaker Out, Mic In
Cooling	Fanless Design (Passive Air Cooling)
Case Material	Full Metal Body
Dimensions	8.35 x 5.91 x 2.01 inches
Weight	3.04 Pounds
Power Consumption	45 Watts

6. WARRANTY INFORMATION

The KINGDEL Industrial Fanless Mini PC NC1037U comes with a **2-year warranty** covering labor and parts. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included with your product or contact KINGDEL customer support.

7. SUPPORT

For further assistance, technical support, or inquiries regarding your KINGDEL Mini PC, please refer to the following resources:

- **Online Support:** Visit the official KINGDEL website for FAQs, driver downloads, and support contact information.
- **Customer Service:** Contact KINGDEL customer service directly via the contact details provided in your product documentation.