

Geekplus ASUSNUC14MNKI5-16512

Geekplus ASUS NUC 14 Essential Mini PC User Manual

Model: ASUSNUC14MNKI5-16512

1. INTRODUCTION

The Geekplus ASUS NUC 14 Essential Mini PC is a compact and versatile computing solution designed for various tasks, from office productivity to 4K media streaming. This mini PC integrates an Intel N150 processor, 16GB DDR5 RAM, and a 512GB NVMe SSD, providing efficient performance in a small form factor. It comes pre-installed with Windows 11 Pro, offering a ready-to-use experience.



Image 1.1: Front view of the Geekplus ASUS NUC 14 Essential Mini PC.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- ASUS NUC 14 Essential Slim Mini PC (x1)
- Power Supply (x1)
- AC Cable (x1)

3. PRODUCT FEATURES

3.1. Compact Design and Efficient Performance

The ASUS NUC 14 Essential Mini PC features a 12th Gen Intel N150 processor (4C/4T, up to 3.6GHz) within an ultra-compact 5.31" x 4.53" x 1.42" chassis. This design delivers efficient single-core performance while maintaining a low 6W TDP, making it suitable for sustainable computing and reducing operational costs. It supports smooth web browsing, office tasks, 4K streaming, and light creative projects with significantly less power consumption than traditional desktops.



Image 3.1: Overview of key features including processor, memory, storage, and cooling.

3.2. Durable Construction

Engineered with a reinforced ABS shell, a strategically placed metal mid-frame, and a baseplate, the device ensures optimal strength and cooling balance. Features like tool-free upgrades, vibration-damping feet, and a 3D antenna contribute to its durability without adding unnecessary bulk.

3.3. Memory and Storage

Equipped with 16GB DDR5-4800 RAM and a 512GB PCIe NVMe SSD (PCIe 3.0 x4, expandable to 2TB), the Mini PC offers accelerated multitasking and high-speed data processing. This configuration supports rapid file transfers and improved system responsiveness for demanding workloads.

Pre-installed Popular Storage

512 M.2 2280 NVMe
PCIe Gen 3x4 SSD
Max up to 2TB

Single-Channel 16GB
DDR5 4800MHz SODIMM
Max up to 32GB



Image 3.2: Internal view highlighting the DDR5 RAM and NVMe SSD components.

3.4. Triple-Screen Display Support

The integrated Intel Graphics with 24EUs and 1000MHz clock speed supports triple 4K displays via HDMI, MiniDP, and USB-C. This capability is beneficial for professionals requiring multiple screens for tasks such as video editing, coding, data analysis, or streaming.

Reliable Cooling Solution

Boasting an advanced thermal design with dual heat pipes, intelligent thermal management, and strategically-placed vents, ASUS NUC 14 Essential ensures effective and silent heat dissipation.

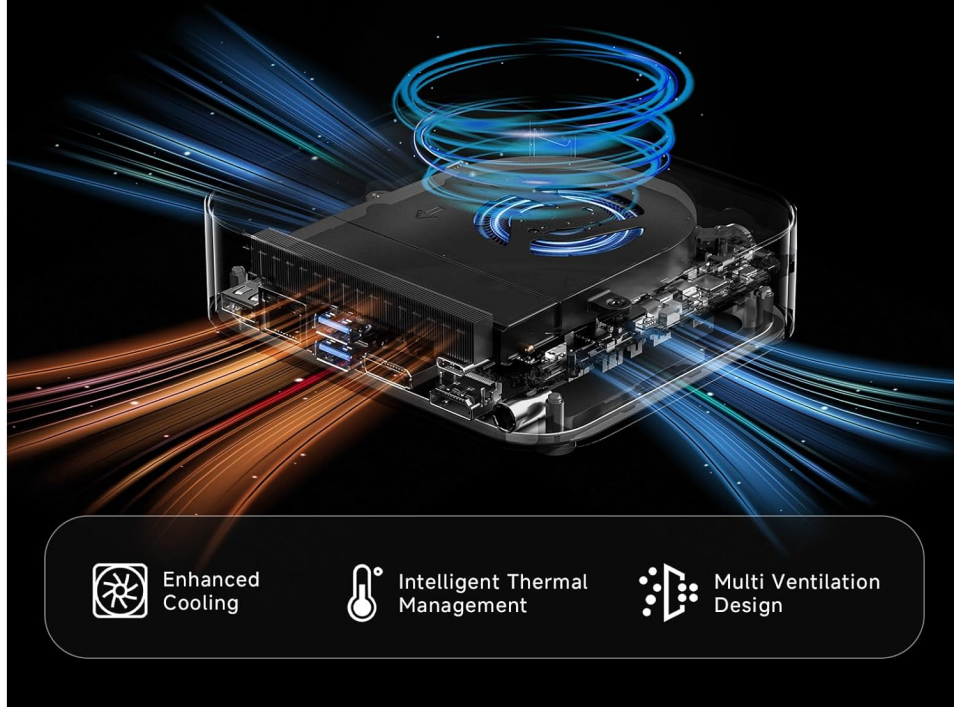


Image 3.3: Illustration of the mini PC supporting a triple 4K display setup.

3.5. Advanced Connectivity

Featuring Wi-Fi 6E for ultra-stable wireless connections (up to 3x faster than Wi-Fi 5), Bluetooth 5.3 for low-latency wireless peripheral pairing, and a 2.5Gbps LAN port, the Mini PC ensures high-speed and reliable network and peripheral connectivity.

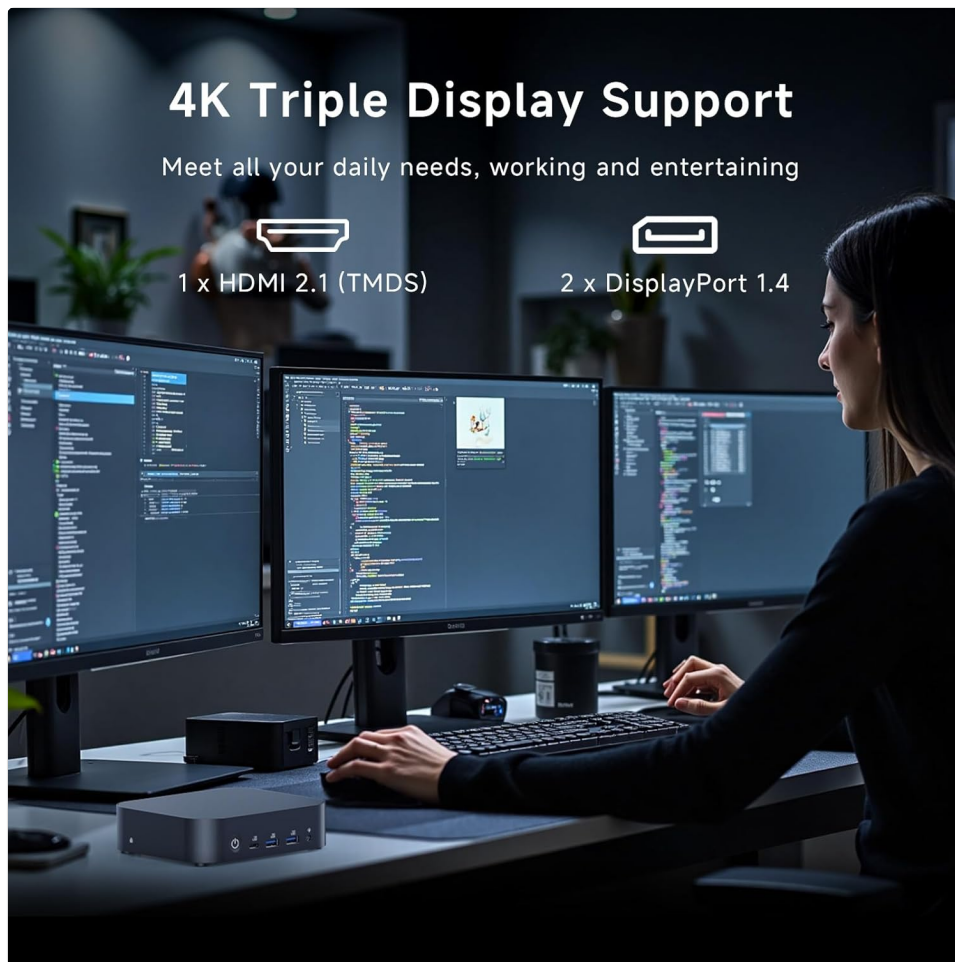


Image 3.4: The mini PC connected to a high-speed 2.5Gbps Ethernet network.

3.6. Efficient Cooling System

The IceBlast 2.0 Cooling System incorporates dual copper heat pipes, a larger silent fan, vortex airflow, and an enhanced heatsink over the CPU module. This design provides effective heat dissipation with minimal noise output.

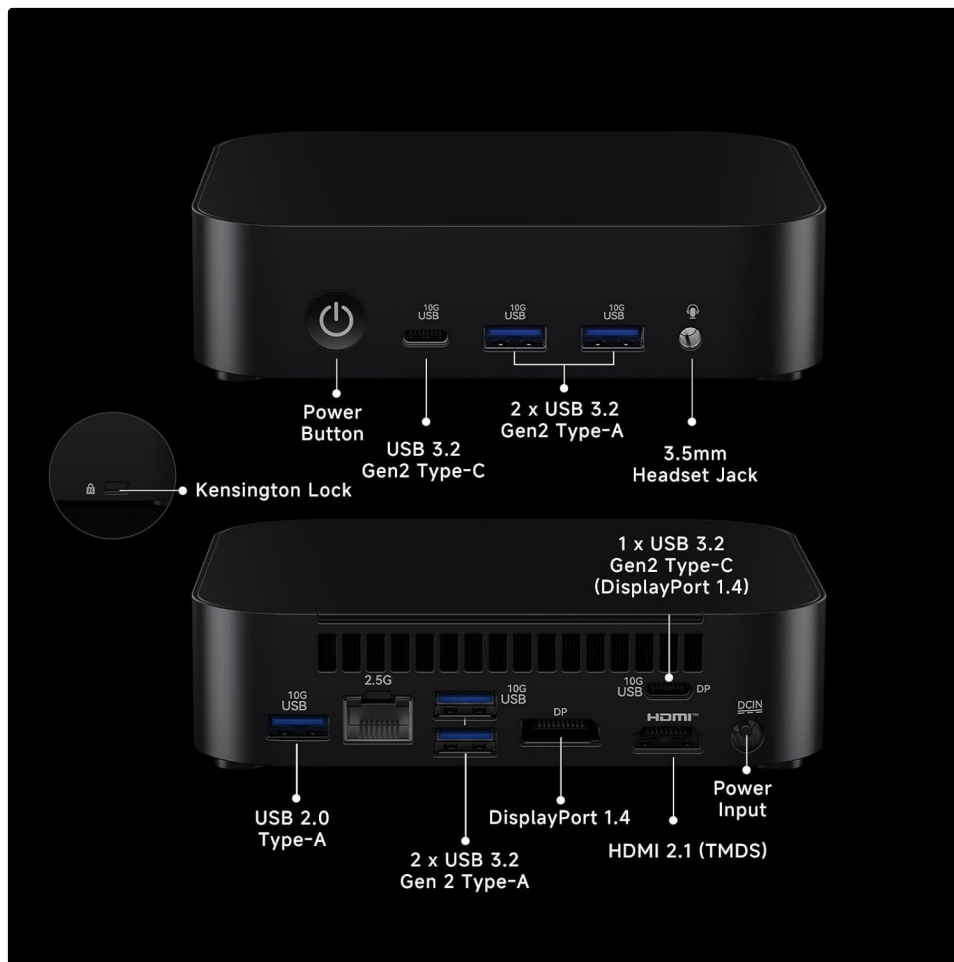


Image 3.5: Diagram illustrating the internal cooling system components and airflow.

3.7. Operating System Flexibility

The Mini PC comes with Windows 11 Pro pre-installed and offers full compatibility with Windows 11 64-bit, Ubuntu 24.04 LTS 64-bit, and RedHat Enterprise Linux 64-bit, allowing users to switch to their preferred operating system.

4. SETUP GUIDE

4.1. Connecting Peripherals

Before powering on your Mini PC, connect your essential peripherals:

1. **Display:** Connect your monitor(s) to the HDMI, DisplayPort, or USB-C video output ports. The Mini PC supports up to three 4K displays.
2. **Keyboard and Mouse:** Connect your USB keyboard and mouse to any available USB-A ports.
3. **Network (Optional):** For a wired connection, connect an Ethernet cable from your router or modem to the 2.5Gbps LAN port.
4. **Other USB Devices:** Connect any other USB devices such as external drives or webcams to the available USB ports.
5. **Audio:** Connect headphones or speakers to the 3.5mm headset jack if desired.



Image 4.1: Detailed diagram of the front and rear ports of the Mini PC.

4.2. Power Connection

Connect the provided power supply to the DC IN port on the Mini PC, then plug the AC cable into a power outlet.

4.3. Initial Boot

Press the power button located on the front of the Mini PC. The system will boot up, and you will be guided through the initial setup process for Windows 11 Pro.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- **Power On:** Press the power button once.
- **Power Off:** From Windows, go to Start > Power > Shut down. Alternatively, press and hold the power button for 5 seconds to force a shutdown (use only when necessary).

5.2. Network Connectivity

- **Wi-Fi:** In Windows 11, click the network icon in the taskbar, select your Wi-Fi network, and enter the password. The Mini PC supports Wi-Fi 6E for enhanced performance.
- **Wired LAN:** If an Ethernet cable is connected, the system will automatically detect the wired network connection.

5.3. Bluetooth Pairing

To pair Bluetooth devices:

1. Ensure your Bluetooth device is in pairing mode.
2. In Windows 11, go to Settings > Bluetooth & devices.
3. Turn on Bluetooth and click 'Add device'.
4. Select 'Bluetooth' and choose your device from the list to complete pairing.

5.4. Multi-Display Configuration

After connecting multiple monitors, Windows 11 will typically detect them automatically. You can configure display settings by right-clicking on the desktop and selecting 'Display settings' to arrange displays, change resolution, or set display modes (e.g., Extend, Duplicate).

6. MAINTENANCE

6.1. Cleaning

- Use a soft, dry cloth to clean the exterior of the Mini PC.
- For dust accumulation in vents, use compressed air. Ensure the device is powered off before cleaning.
- Avoid using liquid cleaners directly on the device.

6.2. Software Updates

Regularly update your operating system and drivers to ensure optimal performance and security. Windows 11 Pro will typically manage updates automatically, but you can manually check via Settings > Windows Update.

6.3. Hardware Upgrades

The Mini PC features an easy-access chassis for tool-free upgrades of RAM and SSD. Refer to the detailed instructions provided with the product for specific upgrade procedures. Ensure the device is powered off and unplugged before performing any hardware maintenance.

7. TROUBLESHOOTING

7.1. No Power

- Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Try a different power outlet if available.

7.2. No Display

- Check that the display cable (HDMI, DisplayPort, or USB-C) is securely connected to both the Mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source.
- Test with a different display cable or monitor if possible.

7.3. Network Connectivity Issues

- **Wi-Fi:** Check if Wi-Fi is enabled in Windows settings. Restart your router/modem. Ensure you are within range of your Wi-Fi network.
- **Wired LAN:** Verify the Ethernet cable is properly connected. Check the status lights on the LAN port; they should be active. Restart your router/modem.

7.4. Peripheral Not Detected

- Try connecting the peripheral to a different USB port.
- Ensure the peripheral has its own power source if required.
- Check the device manager in Windows for any driver issues.

8. SPECIFICATIONS

Feature	Specification
Processor	Intel N150 (4C/4T, up to 3.6 GHz)
RAM	16GB DDR5 RAM
Storage	512GB PCIe NVMe SSD (expandable to 2TB)
Graphics	Intel Graphics (24EUs, 1000MHz)
Max Screen Resolution	3840x2160 Pixels (4K)
Video Outputs	HDMI 2.1, DisplayPort 1.4, USB-C (DisplayPort 1.4)
Wireless Connectivity	Wi-Fi 6E, Bluetooth 5.3
Wired LAN	2.5Gbps RJ45
USB Ports	1x USB 2.0 Type-A, 3x USB 3.2 Gen2 Type-A, 2x USB 3.2 Gen2 Type-C (one with DisplayPort 1.4)
Audio	3.5mm Headset Jack
Operating System	Windows 11 Pro (pre-installed)
Dimensions (LxWxH)	5.31 x 4.53 x 1.42 inches
Weight	2.66 pounds



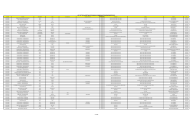
9. WARRANTY AND SUPPORT

Geekplus Store provides comprehensive product support for the ASUS NUC 14 Essential Mini PC. This includes:

- A 3-year product warranty covering defects in design and craftsmanship.
- A 2-year unconditional return and exchange policy for any reason.
- Lifetime worry-free user support from the dedicated Geekplus aftersales team.

For any product concerns or support inquiries, please contact the Geekplus support team for prompt assistance.

Related Documents - ASUSNUC14MNKI5-16512

 <p>The GEEKOM A5 Mini PC, powered by the AMD Ryzen™ 7 5800H processor, featuring 16GB RAM, 512GB SSD, and Windows 11 Pro, is a powerful and compact device. It is designed for office work, multitasking, and gaming. The GEEKOM A5 Mini PC is a powerful and compact device. It is designed for office work, multitasking, and gaming.</p>	<p>GEEKOM A5 Mini PC: Powerful Performance and Compact Design</p> <p>Discover the GEEKOM A5 Mini PC featuring AMD Ryzen 7 5800H processor, AMD Radeon Vega 8 graphics, Windows 11 Pro, and extensive connectivity for office work, multitasking, and gaming.</p>
 <p>ATH Renkaan tasapainotuskone W24 LED 2D 80-16512</p> <p>Tekniset tiedot</p> <p>ATH W24 LED 2D renkaan tasapainotuskoneen (malli 80-16512) yksityiskohtaiset tiedot ja ominaisuudet, soveltuu henkilöautoille, moottoripyörille ja kevyille kuorma-autoille. Sisältää tekniset tiedot ja tarvikkeet.</p>	<p>ATH W24 LED 2D Renkaan tasapainotuskone 80-16512 - Tekniset tiedot</p> <p>ATH W24 LED 2D renkaan tasapainotuskoneen (malli 80-16512) yksityiskohtaiset tiedot ja ominaisuudet, soveltuu henkilöautoille, moottoripyörille ja kevyille kuorma-autoille. Sisältää tekniset tiedot ja tarvikkeet.</p>
	<p>List of Type Acceptance for Radio Communication Equipment (RCE)</p> <p>A comprehensive list detailing type acceptance for various radio communication equipment, including manufacturers, models, frequencies, power outputs, and grantee information.</p>