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› NiPoGi Essenx E2 Mini PC User Manual - Intel Alder Lake-N95, 16GB RAM, 512GB SSD

NiPoGi E2

NiPoGi Essenx E2 Mini PC User Manual

Model: E2

1. INTRODUCTION

The NiPoGi Essenx E2 Mini PC is a compact and powerful desktop computer designed for various applications, including office work, home entertainment, and educational use. Featuring an Intel Alder Lake-N95 processor, 16GB DDR4 RAM, and a 512GB M.2 SSD, it offers efficient performance in a small form factor. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your Mini PC.



Image 1.1: Front view of the NiPoGi Essenx E2 Mini PC, showcasing its compact design and front ports.

NiPoGi

Your Next Mini PC N95 More Powerful



Intel Alder Lake-N95



4 Cores
4 Threads

6MB
L3 Cache

15W
TDP

3.40 GHz
Burst Frequency

Built-in cooling fan



Immersive 4K Image Quality

HDMI 2.0 + DP



Front Side



Power Button x1/USB 3.2 Gen2 x2/
3.5mm Audio Jack x1

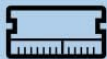
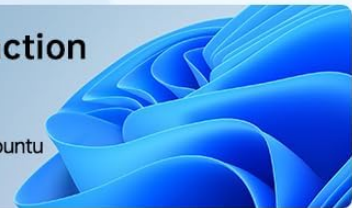
Back Sides



RJ45 Lan x1/HDMI 2.0 x1/DP x1
/USB 2.0 x2/DC x1

Additional Function

- a.Auto Power On
- b.Wake On LAN
- C.Compatible with Linux, Ubuntu



16GB DDR4



512GB M.2 SSD



WiFi 5



Bluetooth 4.2

Image 1.2: Overview of the NiPoGi Essenx E2 Mini PC's key features, including the Intel Alder Lake-N95 processor, built-in cooling fan, 4K image quality, various ports, 16GB DDR4, 512GB M.2 SSD, WiFi 5, and Bluetooth 4.2.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- 1 x NiPoGi Essenx E2 Mini PC
- 1 x Power Adapter (EU plug)

- 1 x User Manual
- 1 x HDMI Cable
- 1 x VESA Mount Bracket

3. SETUP GUIDE

3.1 Connecting Peripherals

Before powering on your Mini PC, connect all necessary peripherals:

1. **Connect Display:** Use the provided HDMI cable to connect your monitor or TV to the HDMI 2.0 port on the Mini PC. Alternatively, use a DisplayPort (DP) cable for DP connectivity. The device supports dual display output.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into the available USB ports (2 x USB 3.0, 2 x USB 2.0).
3. **Connect Network (Optional):** For a wired internet connection, connect an Ethernet cable to the RJ45 LAN port. Wireless connectivity (Wi-Fi 5) and Bluetooth 4.2 are also available.
4. **Connect Power:** Plug the power adapter into the DC input port on the Mini PC, then connect the adapter to a power outlet.

Versatile Connectivity

Meet Your More Daily Needs



Image 3.1: Diagram illustrating the various ports on the NiPoGi Essenx E2 Mini PC, including USB, HDMI, DisplayPort, LAN, and DC power input.

3.2 Initial Boot and Operating System Setup

The Mini PC comes with Windows 11 Pro pre-installed.

1. Press the power button on the front of the Mini PC.
2. Upon first boot, you will be guided through the Windows 11 Pro setup process. Follow the on-screen instructions to select your language, region, and create a user account.

3. **Important First Boot Tip:** To avoid initial configuration issues, it is recommended **not** to connect to a network (wired or Wi-Fi) until the operating system setup is complete. You can skip the network connection step during the initial setup. If you accidentally connect to Wi-Fi and encounter issues, disconnect your router, restart the Mini PC, and proceed with the setup offline.

3.3 BIOS Settings: Automatic Power On

The Mini PC supports automatic power-on after a power failure. To enable this feature:

1. During startup, repeatedly press the **ESC** key to enter the BIOS interface.
2. Navigate to the "Boot" section.
3. Locate and enable the "Enable Automatic Power On" option.
4. Save changes and exit the BIOS.

3.4 VESA Mount Installation

The included VESA mount allows you to attach the Mini PC to the back of a compatible monitor or TV, saving desk space.

1. Attach the VESA bracket to the back of your monitor using the provided screws.
2. Slide the Mini PC onto the VESA bracket until it clicks securely into place.

Small Size & Powerful



Image 3.2: Visual representation of the Mini PC's small size and various placement options, including desktop, VESA-mounted behind a monitor, and portable in a bag.

4. OPERATING INSTRUCTIONS

4.1 System Overview

The NiPoGi Essenx E2 Mini PC runs on Windows 11 Pro (64-bit) and is compatible with Linux and Ubuntu operating systems. It is powered by a 12th Gen Intel Alder Lake-N95 processor, offering efficient performance for daily tasks.

4.2 Dual Display Configuration

The Mini PC supports dual 4K display output via its HDMI 2.0 and DisplayPort interfaces, allowing for an expanded workspace.

- Connect your primary monitor to either the HDMI or DP port.
- Connect your secondary monitor to the remaining video output port.
- In Windows, right-click on the desktop, select "Display settings," and configure your preferred display arrangement (e.g., Extend, Duplicate).

Immersive 4K Image Quality

4K@60Hz Dual Display



1x HDMI 2.0



1x DisplayPort



Image 4.1: The Mini PC connected to two monitors, demonstrating its dual 4K display capability for enhanced productivity.

4.3 Network Connectivity

The Mini PC offers versatile network options:

- **Wi-Fi:** Built-in dual-band Wi-Fi 5 (802.11ac, 2.4G/5G) provides stable wireless internet access. Connect via Windows network settings.
- **LAN:** A 1000 Mbps Ethernet port is available for a stable wired connection.
- **Bluetooth:** Bluetooth 4.2 allows connection to wireless peripherals such as keyboards, mice, and headphones.

Easy Multi-tasking without Lag

WiFi 5 + Bluetooth 4.2



Image 4.2: The Mini PC facilitating easy multitasking with Wi-Fi 5 and Bluetooth 4.2, showing multiple applications open across a display.

4.4 Storage Expansion

The Mini PC includes a 512GB M.2 SSD. For additional storage, it supports replacement of the M.2 NVMe PCIe3.0 SSD or M.2 SATA SSD, up to 2TB.

- To upgrade or replace the M.2 SSD, consult a qualified technician or refer to detailed hardware upgrade guides.
- Ensure the new SSD is compatible with M.2 NVMe PCIe3.0 or M.2 SATA standards.

Easily Expand Storage

Supports replacement of M.2 NVMe SSD or M.2 SATA SSD, up to 2TB



16GB DDR4



512GB M.2 SSD, MAX 2TB



Image 4.3: Internal view of the Mini PC highlighting the 16GB DDR4 RAM and the 512GB M.2 SSD, with an indication of support for up to 2TB storage expansion.

5. MAINTENANCE

5.1 General Care

- Keep the Mini PC in a well-ventilated area to prevent overheating.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.

- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners.
- Ensure all cables are securely connected.

5.2 Software Updates

Regularly update your Windows operating system and drivers to ensure optimal performance and security. Windows Update can be accessed through the system settings.

6. TROUBLESHOOTING

6.1 Initial Setup Network Issues

If you encounter issues during the initial Windows setup related to network connectivity:

- **No Network/Wi-Fi Connection:** It is recommended to complete the OS setup without connecting to the internet. If prompted, skip the network connection step.
- **Wired Network Connection Issues:** If using a wired connection and the OS fails to load, disconnect the Ethernet cable, restart the device, and proceed with setup offline.
- **Wi-Fi Connection Issues:** If you established a Wi-Fi connection and the OS cannot load, temporarily turn off your Wi-Fi router, then restart the Mini PC.

6.2 Common Problems

- **No Display:** Ensure the HDMI/DP cable is securely connected to both the Mini PC and the monitor. Check that the monitor is powered on and set to the correct input source.
- **No Power:** Verify the power adapter is correctly plugged into the Mini PC and a working power outlet.
- **System Slowdown:** Check for background applications consuming resources. Ensure sufficient free storage space. Consider running system diagnostics.

7. SPECIFICATIONS

Feature	Detail
Brand	NiPoGi
Model Number	E2
Operating System	Windows 11 Pro (64-bit), supports Linux, Ubuntu
CPU	Intel Alder Lake-N95 Processor (12th Gen, up to 3.4 GHz, 4 Cores, 4 Threads, 6MB Cache)
GPU	Intel UHD Graphics (4K UHD, Triple Display)
RAM	16GB DDR4
Storage	512GB M.2 SSD (Supports M.2 NVMe PCIe3.0 or M.2 SATA SSD up to 2TB)
Wi-Fi	Dual-band 802.11ac (Wi-Fi 5), 2.4G/5G
Bluetooth	Version 4.2
LAN	1000 Mbps Ethernet
USB Ports	2 x USB 3.0, 2 x USB 2.0
Video Output	1 x HDMI 2.0, 1 x DisplayPort (DP)
Audio Port	1 x Headphone/Microphone Combo Interface
Other Features	Auto Power On, Wake On LAN, RTC Wake, VESA Mount Support
Dimensions	Approx. 10 x 10 x 3.6 cm
Weight	Approx. 500 grams

Intel Alder Lake-N95 Processor



4 Cores
4 Threads



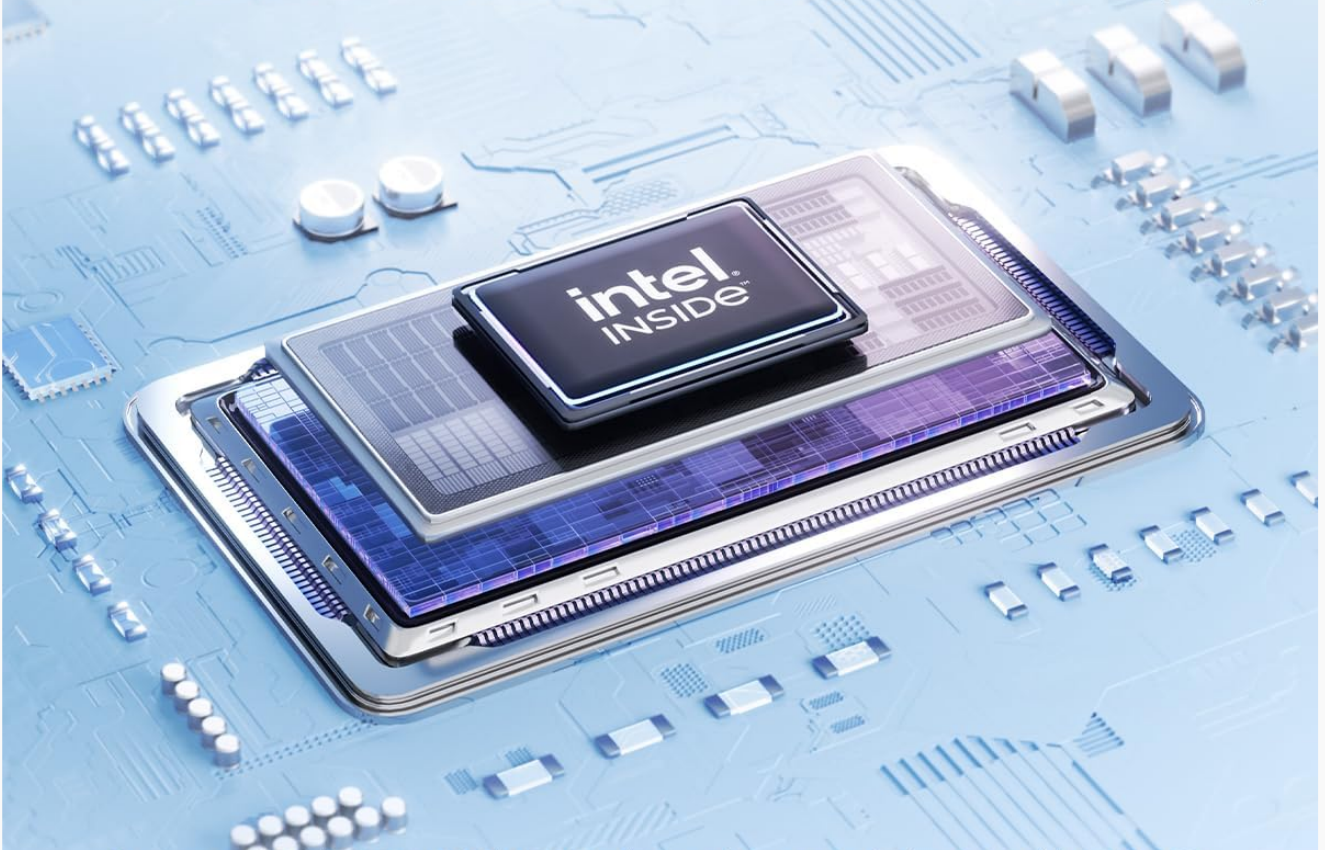
6MB
L3 Cache



15W
TDP



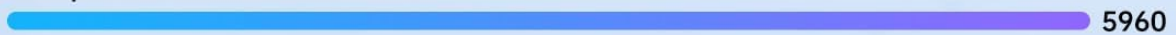
3.40 GHz
Burst Frequency



Compared with CPU N100/N5105, the performance is improved by 20-40%

PASS MARK CPU MARK:

Intel processor N95



Intel processor N100



Intel processor N5105



Gemini Lake J4125



20-40%
Lift about

Image 7.1: Detailed specifications of the Intel Alder Lake-N95 processor, including 4 Cores, 4 Threads, 6MB L3 Cache, 15W TDP, and 3.40 GHz Burst Frequency, with performance comparison.

8. WARRANTY AND SUPPORT

NiPoGi provides a 1-year warranty for the Essenx E2 Mini PC. For any technical assistance, product inquiries, or warranty claims, please contact NiPoGi customer support. Professional 24/7 customer service is available to assist you.

Please refer to the contact information provided with your product packaging or visit the official NiPoGi website for

support details.