

[Manuals.plus](#) /

› [Intel](#) /

› Intel NUC NUC7i3BNHX1 Mini PC User Manual

Intel NUC7i3BNHX1

Intel NUC NUC7i3BNHX1 Mini PC User Manual

Model: NUC7i3BNHX1

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your Intel NUC NUC7i3BNHX1 Mini PC. Please read this guide thoroughly before using your device to ensure proper functionality and to prevent damage. The Intel NUC NUC7i3BNHX1 is a compact, high-performance desktop computer designed for various computing tasks, featuring an Intel Core i3-7100U processor and Intel HD Graphics 620.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and in good condition. The standard package typically includes:

- Intel NUC NUC7i3BNHX1 Mini PC Unit
- AC Power Adapter with Regional Power Cord
- Vesa Mount Bracket (with screws)
- Quick Start Guide
- Safety and Regulatory Information

Note: Additional components such as RAM, storage drives (SSD/HDD), and operating system are typically sold separately for this barebones model.

3. PRODUCT OVERVIEW

Familiarize yourself with the various ports and features of your Intel NUC NUC7i3BNHX1.



Figure 1: Front and Side View of Intel NUC NUC7i3BNHX1

This image displays the Intel NUC NUC7i3BNHX1 Mini PC from a front-side angle. The front panel features two USB 3.0 ports (one blue, one yellow), a headphone/microphone combo jack, and a power button. The left side panel includes a Kensington lock slot and an SD card reader slot, along with ventilation grilles.

3.1 Front Panel Features

- **USB 3.0 Ports (x2):** For connecting high-speed USB devices such as external hard drives, flash drives, and peripherals.
- **Headphone/Microphone Combo Jack:** For connecting headphones, speakers, or a headset with a microphone.
- **Power Button:** To turn the NUC on or off.

3.2 Side Panel Features

- **SD Card Reader Slot:** For inserting SD memory cards to transfer data.
- **Kensington Lock Slot:** For securing the device with a compatible security cable.

3.3 Rear Panel Features (Typical)

While not visible in the provided image, the rear panel typically includes:

- **HDMI Port:** For connecting to a display (monitor, TV).
- **USB 3.0 Ports (x2):** Additional ports for peripherals.
- **Ethernet Port (RJ-45):** For wired network connection.
- **DC Power Input Jack:** For connecting the AC power adapter.

4. SETUP

Follow these steps to set up your Intel NUC NUC7i3BNHX1 Mini PC.

4.1 Installing Components (if applicable)

If you purchased a barebones NUC, you will need to install RAM and a storage drive (M.2 SSD or 2.5-inch SATA drive) before proceeding. Refer to the detailed installation guide provided with your NUC for specific instructions on opening the chassis and installing components.

4.2 Connecting Peripherals

1. **Connect Display:** Connect your monitor or TV to the NUC's HDMI port using an HDMI cable.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any available USB ports on the NUC.
3. **Connect Network (Optional):** For a wired connection, connect an Ethernet cable from your router or modem to the NUC's Ethernet port. For wireless, ensure your NUC has a Wi-Fi module installed.

4.3 Power Connection

1. Connect the AC power adapter to the DC power input jack on the rear of the NUC.
2. Plug the power cord into a wall outlet.

4.4 Initial Boot and Operating System Installation

1. Press the power button on the front panel of the NUC.
2. If an operating system is not pre-installed, you will need to install one. Prepare a bootable USB drive with your preferred operating system (e.g., Windows, Linux).
3. Insert the bootable USB drive into a USB port and follow the on-screen instructions to install the operating system.
4. After OS installation, install necessary drivers, which can typically be found on the Intel support website for your specific NUC model.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- **To Power On:** Press the power button on the front panel.
- **To Power Off:** Use the operating system's shutdown function. Alternatively, press and hold the power button for 4 seconds to force a shutdown (use only when necessary).

5.2 Network Connectivity

- **Wired (Ethernet):** Ensure an Ethernet cable is connected to the NUC and your router. The operating system should automatically detect the connection.
- **Wireless (Wi-Fi):** Access your operating system's network settings, select your Wi-Fi network, and enter the password.

5.3 Using USB Devices

Plug USB devices (e.g., external drives, printers, webcams) into the available USB 3.0 ports. The operating system will typically install necessary drivers automatically.

5.4 Using the SD Card Reader

Insert an SD memory card into the SD card reader slot on the side panel. The card will appear as a removable drive in your operating system's file explorer.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Intel NUC.

6.1 Cleaning

- **Exterior:** Use a soft, dry, lint-free cloth to wipe the exterior. For stubborn marks, slightly dampen the cloth with water. Avoid harsh chemicals.
- **Ventilation:** Periodically check the ventilation grilles for dust buildup. Use compressed air to gently clear dust from the vents to maintain proper airflow.

6.2 Software Updates

Keep your operating system, drivers, and BIOS/firmware updated. Visit the official Intel support website for the latest drivers and BIOS updates for your NUC NUC7i3BNHX1 model.

6.3 Environmental Considerations

Ensure the NUC is placed in a well-ventilated area, away from direct sunlight, heat sources, and excessive dust or moisture. Maintain adequate space around the device for airflow.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Intel NUC.

7.1 No Power

- Ensure the power adapter is securely connected to both the NUC and a working wall outlet.
- Verify the power outlet is functional by plugging in another device.
- Check the power adapter for any visible damage.

7.2 No Display Output

- Confirm the monitor is powered on and correctly connected to the NUC's HDMI port.
- Ensure the monitor's input source is set to the correct HDMI input.
- Try a different HDMI cable or monitor if possible.
- If you recently installed RAM or a storage drive, ensure they are seated correctly.

7.3 Network Connectivity Issues

- **Wired:** Check the Ethernet cable connection. Restart your router/modem.
- **Wireless:** Verify Wi-Fi is enabled in your operating system. Ensure you are connecting to the correct network with the right password. Restart your router.
- Ensure network drivers are installed and up to date.

7.4 Peripherals Not Recognized

- Try connecting the peripheral to a different USB port.
- Ensure the peripheral is powered on (if applicable).
- Install or update the drivers for the peripheral.

For more detailed troubleshooting, refer to the Intel support website or contact Intel customer support.

8. SPECIFICATIONS

Feature	Detail
Model Name	NUC7i3BNHX1 (BOXNUC7i3BNHX1)
Processor	Intel Core i3-7100U (7th Gen), 2.4 GHz Dual-Core
Graphics	Intel HD Graphics 620 (Integrated)
Memory (RAM)	DDR4 SDRAM (User-installable, typically supports up to 32GB)
Storage	No Internal Storage (Supports M.2 SSD and 2.5" SATA drive, includes 16GB Intel Optane Memory buffer module)
Wireless Connectivity	802.11a (Wi-Fi), Bluetooth
Video Output	HDMI (Max Resolution: 3840x2160)

USB Ports	USB 3.0 (Quantity varies, typically 2 front, 2 rear)
Audio	Headphone/Microphone Combo Jack
Card Reader	SD Card Reader
Operating System	None pre-installed (Compatible with Windows 7, Windows 10, Linux)
Dimensions (LxWxH)	5.6 x 5.1 x 5.4 inches
Weight	2.33 pounds

9. WARRANTY AND SUPPORT

Intel provides a limited warranty for its NUC products. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Intel website.

9.1 Technical Support

For technical assistance, driver downloads, BIOS updates, and additional documentation, please visit the Intel Support website:

[Intel NUC Support](#)

When contacting support, please have your NUC model number (NUC7i3BNHX1) and serial number ready.

© 2023 Intel Corporation. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B073J55BX3>

More documents and user manuals: **<https://manuals.plus/>**