

Intel BXNUC8i5INHJA1

Intel NUC 8 Mainstream-G Mini PC User Manual

Model: NUC8i5INHJA1 | Brand: Intel

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for setting up, operating, and maintaining your Intel NUC 8 Mainstream-G Mini PC. The Intel NUC 8 Mainstream-G is a compact computing solution featuring an Intel Core i5 processor, 8GB RAM, 1TB HDD, and 16GB Intel Optane Memory, pre-installed with Windows 10. It is designed for various applications including home office tasks, home theater use, and casual gaming.



Figure 1: Front and side view of the Intel NUC 8 Mainstream-G Mini PC.

2. WHAT'S IN THE BOX

Upon unpacking your Intel NUC 8 Mainstream-G Mini PC, verify that all components are present:

- Intel NUC 8 Mainstream-G Mini PC unit
- Power Adapter with US cord

- Documentation (Quick Start Guide, Safety Information)

3. KEY FEATURES

The Intel NUC 8 Mainstream-G Mini PC offers a range of features designed for versatile computing:

- **Processor:** 8th Generation Intel Core i5 Processor for responsive performance.
- **Graphics:** AMD Radeon 540x discrete graphics with 2 GB dedicated memory for visual tasks and casual gaming.
- **Operating System:** Pre-installed Microsoft Windows 10 Home.
- **Memory:** 8GB RAM for multitasking efficiency.
- **Storage:** 1TB HDD combined with 16GB Intel Optane Memory for accelerated data access.
- **Connectivity:** Multiple USB 3.1 ports (including one Type-C and one charging port), HDMI 2.0B, Mini DisplayPort 1.2, and an SD card slot.
- **Audio:** HDMI 2.0B port supports 7.1 surround sound audio.

4. SETUP GUIDE

Follow these steps to set up your Intel NUC 8 Mini PC:

1. **Connect Display:** Connect your monitor or TV to the NUC using an HDMI or Mini DisplayPort cable.
2. **Connect Peripherals:** Plug in your keyboard and mouse to the available USB ports.
3. **Connect Power:** Connect the power adapter to the NUC's 19V DC input port, then plug the power cord into an electrical outlet.
4. **Power On:** Press the power button located on the front of the unit.
5. **Initial Windows Setup:** Follow the on-screen instructions to complete the Windows 10 Home setup process. This may include setting up your region, language, and user account.



Figure 2: Rear ports of the Intel NUC 8 Mini PC, including power, USB, DisplayPort, HDMI, and Ethernet.

5. OPERATING INSTRUCTIONS

Once set up, operating your Intel NUC 8 Mini PC is similar to any standard desktop computer:

- **Power On/Off:** Press the power button to turn the unit on. To shut down, use the Windows Start menu options (Start

> Power > Shut down).

- **Network Connectivity:** Connect to the internet via the Ethernet port or through Wi-Fi using Windows network settings.
- **USB Devices:** Use the USB 3.1 ports for connecting external drives, printers, or other peripherals. The USB-C port offers versatile connectivity for compatible devices.
- **Display Output:** The HDMI and Mini DisplayPort allow connection to various display types, including multiple monitors.
- **SD Card Slot:** Insert an SD card to easily transfer photos and files from cameras or other devices.
- **Intel Optane Memory:** The integrated Intel Optane Memory works to accelerate your HDD, improving system responsiveness and application loading times.



Figure 3: The Intel NUC 8 Mini PC integrated into a desktop workspace.

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the NUC. For vents, use compressed air to remove dust

buildup. Ensure the device is powered off and unplugged before cleaning.

- **Software Updates:** Regularly update Windows 10 and device drivers. Access Windows Update through Settings > Update & Security. For Intel-specific drivers, visit the official Intel support website.
- **Ventilation:** Ensure the NUC is placed in a well-ventilated area and that its vents are not obstructed to prevent overheating.

7. TROUBLESHOOTING

If you encounter issues with your Intel NUC, consider the following troubleshooting steps:

- **No Power:** Verify the power adapter is securely connected to both the NUC and a working electrical outlet. Try a different outlet if necessary.
- **No Display:** Ensure the monitor is powered on and correctly connected to the NUC. Try a different display cable or port. Confirm the correct input source is selected on your monitor.
- **Slow Performance:** Check for background applications consuming resources. Ensure Windows and drivers are up to date. Consider running a disk cleanup or defragmentation (for HDD).
- **Peripheral Not Detected:** Try connecting the peripheral to a different USB port. Ensure the peripheral's drivers are installed and up to date.
- **Audio Issues:** Check speaker/headphone connections. Verify audio output settings in Windows. Ensure audio drivers are correctly installed.

For persistent issues, refer to the Intel support website or contact customer service.

8. SPECIFICATIONS

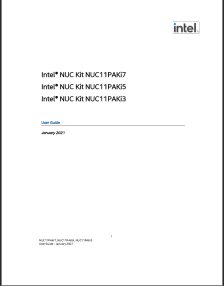
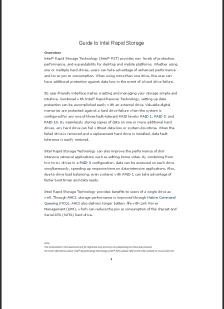
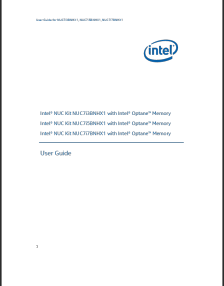
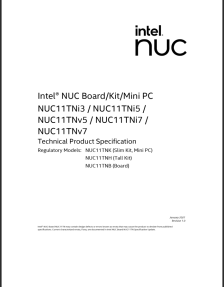
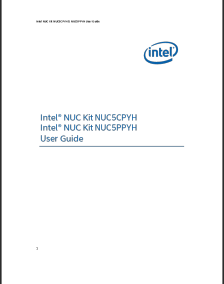
Feature	Specification
Processor	8th Generation Intel Core i5
Graphics Coprocessor	AMD Radeon 540x
Graphics Memory	2 GB Dedicated
RAM	8 GB
Storage	1 TB HDD + 16 GB Intel Optane Memory
Operating System	Windows 10 Home
USB Ports	3x USB 3.1 (Type-A), 1x USB 3.1 (Type-C)
Video Output	1x HDMI 2.0B, 1x Mini DisplayPort 1.2
Other Ports	SD Card Slot, Ethernet (RJ-45)
Dimensions (LxWxH)	4.61 x 4.41 x 2.01 inches
Weight	2.94 pounds

9. WARRANTY AND SUPPORT

Your Intel NUC 8 Mainstream-G Mini PC is covered by a limited warranty. For detailed warranty information, product support, driver downloads, and additional resources, please visit the official Intel support website. Keep your proof of purchase for warranty claims.

Intel Support Website: <https://www.intel.com/content/www/us/en/support/products/125607/mini-pcs/intel-nuc-kits.html>

Related Documents - BXNUC8i5INHJA1

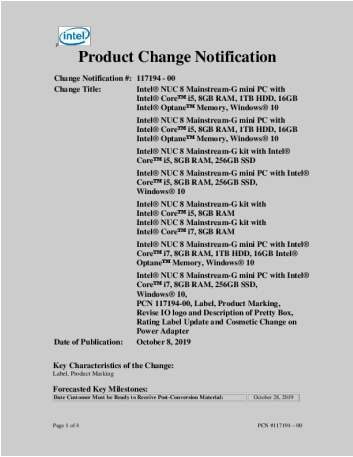
 Intel® NUC Kit NUC11PAKi7 Intel® NUC Kit NUC11PAKi5 Intel® NUC Kit NUC11PAKi3 Intel® NUC January 2021	Intel NUC Kit NUC11PAKi Series User Guide Step-by-step installation guide for Intel NUC Kit NUC11PAKi7, NUC11PAKi5, and NUC11PAKi3. Covers opening the chassis, installing memory and storage, VESA mounting, power connection, OS installation, and driver updates.
 Guide to Intel® Rapid Storage Technology	Guide to Intel Rapid Storage Technology Comprehensive guide to Intel Rapid Storage Technology (RST), covering its features, benefits, installation, creating and deleting RAID arrays using the Intel Optane Memory and Storage Management application and system BIOS, installing operating systems on RAID volumes, and using RAID with an existing OS. Includes instructions for ASRock motherboards.
 Intel® NUC Kit NUC7i3BNHX1 / Intel® Optane™ Memory Intel® NUC Kit NUC7i5BNHX1 / Intel® Optane™ Memory Intel® NUC Kit NUC7i7BNHX1 / Intel® Optane™ Memory User Guide	Intel NUC Kit NUC7i3BNHX1, NUC7i5BNHX1, NUC7i7BNHX1 User Guide Comprehensive user guide for installing and operating Intel NUC Kits NUC7i3BNHX1, NUC7i5BNHX1, and NUC7i7BNHX1, covering memory and storage installation, VESA mounting, power connection, and driver installation.
 Intel® NUC Board/Kit/Mini PC NUC11TN3 / NUC11TN5 / NUC11TN7 / NUC11TN9 Technical Product Specification Frequency Model: NUC11TN3 (5th Gen Intel® Core™) NUC11TN5 (6th Gen Intel® Core™) NUC11TN7 (6th Gen Intel® Core™) NUC11TN9 (6th Gen Intel® Core™)	Intel® NUC NUC11TN Series Technical Product Specification Detailed technical specifications for Intel® NUC Board, Kit, and Mini PC NUC11TN series, covering processors, memory, graphics, storage, and connectivity.
 Intel® NUC Kit NUC5CPYH Intel® NUC Kit NUC5PPYH User Guide	Intel NUC Kit NUC5CPYH & NUC5PPYH User Guide: Installation and Setup Comprehensive user guide for Intel NUC Kit NUC5CPYH and NUC5PPYH, covering installation of memory, storage, VESA mount, operating systems, and drivers. Includes safety precautions and setup instructions.



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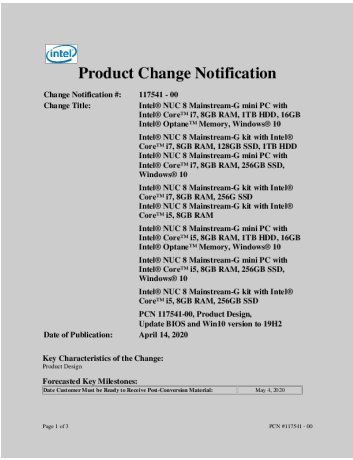
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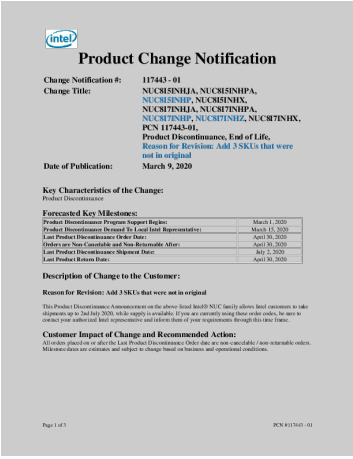
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