Intel NUC10i5FNKN

Intel NUC 10 Performance NUC10i5FNKN Barebone System User Manual

Model: NUC10i5FNKN

1. INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your Intel NUC 10 Performance NUC10i5FNKN Barebone System. The Intel NUC (Next Unit of Computing) is a small form factor PC kit designed for flexibility and customization. As a barebone system, it requires the user to install memory (RAM), storage (SSD/HDD), and an operating system to become fully functional.

Please read this manual carefully before beginning the installation process to ensure proper setup and operation.

Figure 1: Intel NUC 10 Performance NUC10i5FNKN Barebone System. This image shows the compact design of the NUC, featuring a black chassis with various ports on the front and ventilation on the side.

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- NUC 10 Performance kit - NUC10i5FNKN
- US Cord (Power Adapter)

Note: Memory, storage, and operating system are not included and must be purchased separately.

3. SETUP AND INSTALLATION

This section guides you through the physical installation of components and initial setup.

3.1. Installing Memory (RAM)

1. Unscrew the bottom cover of the NUC chassis.
2. Locate the DDR4 SO-DIMM slots on the motherboard.
3. Align the notch on the SO-DIMM module with the notch in the slot.
4. Insert the module at a 45-degree angle and push down until the retaining clips snap into place.
5. Repeat for additional memory modules if applicable.

3.2. Installing Storage (SSD/HDD)

The NUC10i5FNKN supports both M.2 SSDs and 2.5-inch SATA drives.

3.2.1. M.2 SSD Installation

1. Locate the M.2 slot on the motherboard.
2. Remove the small screw at the end of the M.2 slot.
3. Insert the M.2 SSD into the slot at an angle.
4. Gently push down the SSD and secure it with the screw.

3.2.2. 2.5-inch SATA Drive Installation

1. Mount the 2.5-inch drive into the drive bay bracket (if provided).
2. Connect the SATA data and power cables from the motherboard to the drive.
3. Secure the drive bay bracket within the chassis.

After installing memory and storage, reattach the bottom cover.

3.3. Connecting Peripherals

Connect your monitor, keyboard, mouse, and other necessary devices to the NUC.

2 x front USB 3.1 Gen2 (Type-A, Type-C)

Figure 3: Rear panel ports of the Intel NUC 10. This image displays the power input (19V), HDMI port, Ethernet port, two USB 3.1 Gen2 Type-A ports, and a USB-C port with Thunderbolt 3 support, allowing for diverse connectivity options.

- **Monitor:** Connect your display to the HDMI port on the rear panel. The NUC supports up to 4096x2304 resolution.
- **Keyboard/Mouse:** Connect to any available USB ports (front or rear).
- **Network:** Connect an Ethernet cable to the RJ45 port for wired network access.
- **Power:** Connect the power adapter to the 19V DC input on the rear panel, then plug the power cord into an electrical outlet.

3.4. Operating System Installation

Once all hardware is installed and peripherals are connected, you will need to install an operating system (e.g., Windows 10, Linux). Refer to the operating system's installation guide for detailed steps. You may need to create a bootable USB drive for installation.

4. OPERATING INSTRUCTIONS

4.1. Powering On/Off

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

4.2. Using the SD Card Slot

The NUC 10 Performance features an SDXC card slot with UHS-II support on the left side panel. This allows for easy transfer of photos, videos, and other data from compatible memory cards.

- Insert the SD card into the slot until it clicks into place.
- To eject, push the card in slightly until it springs out.

SDXC with UHS-II support

Figure 5: Side view of the Intel NUC 10, highlighting the SDXC card slot with UHS-II support. This slot provides convenient access for reading and writing data from SD cards.

4.3. BIOS/UEFI Settings

To access the BIOS/UEFI settings, press the **F2** key repeatedly during startup. This allows configuration of boot order, system settings, and advanced features.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your NUC.

5.1. Cleaning

- Keep the NUC in a clean, dust-free environment.
- Periodically clean the exterior with a soft, dry cloth.
- Use compressed air to gently clear dust from ventilation openings to maintain proper airflow and cooling. Ensure the system is powered off before cleaning.

5.2. Software Updates

- Regularly update your operating system, drivers, and BIOS/UEFI firmware. Visit the official Intel support website for the latest drivers and firmware for your NUC model.
- Keeping software up-to-date improves system stability, security, and performance.

6. TROUBLESHOOTING

This section addresses common issues you might encounter.

6.1. No Power

- Ensure the power adapter is securely connected to both the NUC and a working electrical outlet.
- Verify the power cord is fully inserted into the power adapter.
- Test the electrical outlet with another device.

6.2. No Display Output

- Check that the monitor is powered on and the video cable (HDMI) is securely connected to both the NUC and the monitor.
- Ensure the monitor is set to the correct input source.
- If using multiple monitors, try connecting only one.
- Reseat the RAM modules to ensure they are properly installed.

6.3. Operating System Not Booting

- Verify that the storage drive (SSD/HDD) is correctly installed and detected in the BIOS/UEFI settings.
- Check the boot order in BIOS/UEFI to ensure the correct drive is selected as the primary boot device.
- If you recently installed a new OS, ensure the installation media was created correctly.

For further assistance, refer to the Intel support website or contact customer support.

7. SPECIFICATIONS

Key technical specifications for the Intel NUC 10 Performance NUC10i5FNKN:

Feature	Detail
Model Number	NUC10i5FNKN
Processor	Intel Core i5-10210U (10th Gen, 2.5 GHz)
Graphics	Intel UHD Graphics (Integrated)
Max Screen Resolution	4096x2304
RAM Type	DDR4 SDRAM (SO-DIMM slots)
Storage Interface	SATA/600 (for 2.5" drives), M.2 (for SSDs)
USB Ports	7 (including USB 3.1 Gen2 Type-A and Type-C)
Ethernet	Gigabit Ethernet
Dimensions (LxWxH)	6 x 5 x 4 inches
Weight	2.55 pounds
Operating System (Supported)	Windows 10 (and other compatible OS)

8. WARRANTY AND SUPPORT

8.1. Product Warranty

This Intel NUC product is covered by Intel's standard limited warranty. For specific terms, conditions, and duration of your warranty, please refer to the warranty information included with your purchase or visit the official Intel website. Keep your proof of purchase for warranty claims.

8.2. Technical Support

For technical assistance, driver downloads, firmware updates, and additional documentation, please visit the official Intel Support website:
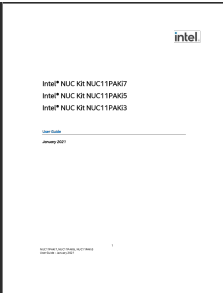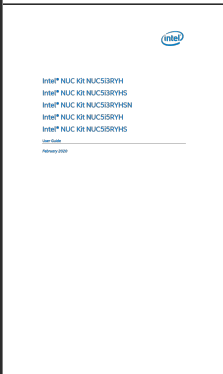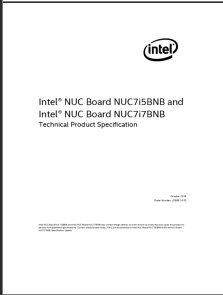
Intel NUC Support
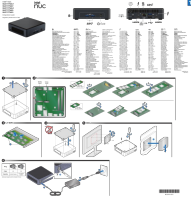
When contacting support, have your product model number (NUC10i5FNKN) and serial number ready.

Related Documents - NUC10i5FNKN

	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.
	Intel NUC Kit NUC5i3RYH and NUC5i5RYH User Guide This user guide provides step-by-step installation instructions for Intel NUC Kits NUC5i3RYH, NUC5i3RYHS, NUC5i3RYHSN, NUC5i5RYH, and NUC5i5RYHS, covering chassis opening, memory installation, SSD installation, closing the chassis, VESA bracket usage, power connection, operating system installation, and driver updates.
	Intel® NUC Board NUC7i5BNB and NUC7i7BNB Technical Product Specification This document provides detailed technical specifications for the Intel® NUC Board NUC7i5BNB and Intel® NUC Board NUC7i7BNB, covering board layout, components, connectors, power, and environmental requirements, as well as BIOS information. It is intended for vendors, system integrators, and engineers.

	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 11 Pro Kit (NUC11TNK) Integration Guide Comprehensive integration guide for the Intel® NUC 11 Pro Kit (Tiger Canyon) models NUC11TNKv7, NUC11TNKi7, NUC11TNKv5, NUC11TNKi5, and NUC11TNKi3. Covers port identification, M.2 and DDR4 installation, VESA mounting, and power options.
	Intel NUC 13 Pro Desk Edition Mini PC User Guide Comprehensive user guide for the Intel NUC 13 Pro Desk Edition Mini PC, covering installation, upgrades, setup, and recovery. Includes detailed instructions for models NUC13VYKI70QC, NUC13VYKI70QA, NUC13VYKi50WC, and NUC13VYKi50WA.