

## Intel NUC 10

# Intel NUC 10 Performance Kit User Manual

Model: NUC 10 (Tall Chassis)

## 1. INTRODUCTION

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This manual provides essential information for setting up, operating, and maintaining your Intel NUC 10 Performance Kit. The Intel NUC 10 is a compact, high-performance mini PC designed for various applications, including home office, home theater, and casual gaming. This kit requires user-supplied RAM and storage to function.

## 2. PACKAGE CONTENTS

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Verify that all items are present in your package:

- Intel NUC 10 Mini PC (Tall Chassis)
- US Power Plug
- US AC Cord
- Mounting Bracket (VESA compatible)
- User Manual (this document)

## 3. PRODUCT OVERVIEW

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The Intel NUC 10 Performance Kit features a compact design with essential ports for connectivity.



Figure 3.1: Front view of the Intel NUC 10 Performance Kit, showing the power button, USB ports, and SD card slot. The front panel includes a USB-C port, a USB 3.1 Type-A port, a headphone/microphone jack, and the power button. An SD card slot is located on the side.

The device includes multiple USB ports (including USB 2.0, USB 3.x, and USB-C), HDMI 2.0a, and a USB-C port with DisplayPort 1.2 capability for video output. It also features integrated Intel UHD Graphics for 10th Gen Intel Processors.

## 4. SETUP

### 4.1. Hardware Installation (RAM and Storage)

As a barebones kit, the Intel NUC 10 requires user-supplied DDR4 SDRAM and storage (M.2 SSD and/or 2.5-inch SATA drive) for operation. Refer to the detailed installation guide provided by Intel for specific instructions on opening the chassis and installing components.

### 4.2. Connecting Peripherals

1. **Monitor:** Connect your display(s) to the HDMI 2.0a port or the USB-C (DisplayPort 1.2) port. The NUC supports up to three displays simultaneously.
2. **Keyboard and Mouse:** Connect your USB keyboard and mouse to any available USB ports.
3. **Network:** Connect an Ethernet cable to the RJ45 port for wired network access, or utilize the integrated Bluetooth for wireless connectivity.
4. **Power:** Connect the AC cord to the power adapter, then plug the adapter into the NUC's DC input jack. Finally, plug the power cord into a wall outlet.

### 4.3. Initial Power On

Press the power button located on the front of the unit. The power indicator light will illuminate. The system will begin the boot process.

## 5. OPERATING SYSTEM INSTALLATION

The Intel NUC 10 supports Microsoft Windows 10 and various Linux distributions. You will need to create a bootable USB drive with your preferred operating system installer. Follow the on-screen prompts to complete the installation process. Ensure you download and install the latest drivers from the Intel support website after OS installation for optimal performance.

## 6. OPERATION

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The Intel NUC 10 is designed for versatile use:

- **Home Office:** Ideal for productivity tasks, web browsing, and video conferencing.
- **Home Theater PC (HTPC):** Its compact size and multimedia capabilities make it suitable for streaming media and local content playback.
- **Casual Gaming:** Capable of running less demanding games with its integrated Intel UHD Graphics.



Figure 6.1: The Intel NUC 10 Performance Kit in a home setting, demonstrating its compact size and use for everyday computing. Its small footprint allows it to fit discreetly into various environments.

## 7. MAINTENANCE

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### 7.1. Cleaning

Regularly clean the exterior of the NUC with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions to maintain optimal airflow and prevent overheating. Do not use liquid cleaners directly on the device.

### 7.2. Software Updates

Keep your operating system and Intel drivers updated to ensure system stability, security, and performance. Visit the official Intel support website for the latest driver downloads specific to your NUC model.

## 8. TROUBLESHOOTING

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If you encounter issues with your Intel NUC 10, consider the following common troubleshooting steps:

- **No Power/No Boot:**

- Ensure the power adapter is securely connected to both the NUC and a working power outlet.
- Verify that RAM and storage modules are correctly seated. Incorrectly installed memory is a common cause of no-boot issues.
- **No Display:**
  - Check all display cable connections (HDMI, USB-C).
  - Ensure your monitor is set to the correct input source.
- **Peripheral Not Detected:**
  - Try connecting the peripheral to a different USB port.
  - Ensure necessary drivers for the peripheral are installed.

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

## 9. SPECIFICATIONS

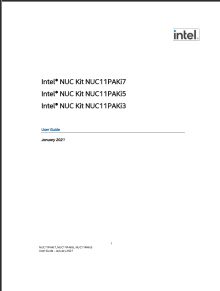
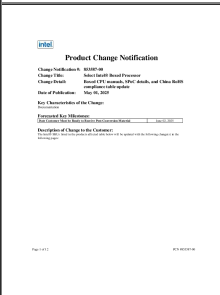
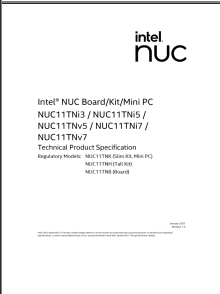
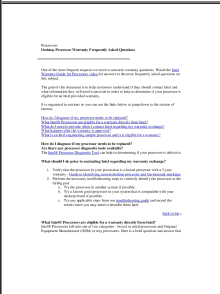
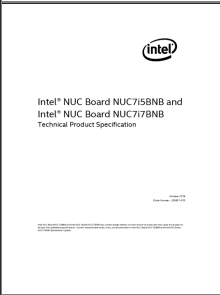
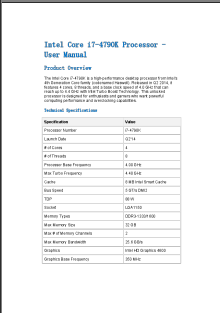
Feature	Specification
Model Name	Frost Canyon (NUC 10)
Processor	10th Generation Intel Core i5-10210U
Graphics Coprocessor	Intel® UHD Graphics for 10th Gen Intel® Processors
Max Screen Resolution	3840 x 2160 pixels
Memory Type	DDR4 SDRAM (User-installable)
Storage Interface	Solid State (M.2 and 2.5-inch SATA, user-installable)
Wireless Type	Bluetooth
USB Ports	Multiple (including USB 2.0, USB 3.x, and USB-C)
Operating System Support	Microsoft Windows 10, various Linux distros
Item Weight	2.83 pounds (approx.)
Product Dimensions (LxWxH)	4.61 x 4.41 x 1.5 inches (approx.)

## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Intel website or contact Intel customer service. Keep your proof of purchase for warranty claims. Intel provides comprehensive online resources, including drivers, software, and troubleshooting guides for your NUC device.

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

## Related Documents - NUC 10

	<a href="#">Intel NUC Kit NUC11PAKi Series User Guide</a> 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.
	<a href="#">Intel Product Change Notification 853587-00: Boxed Processor Updates</a> Notification regarding updates to Intel Boxed Processor manuals, Single Point of Contact (SPoC) details, and China RoHS compliance tables, affecting various Intel Core and Xeon processors.
	<a href="#">Intel@ NUC NUC11TN Series Technical Product Specification</a> Detailed technical specifications for Intel® NUC Board, Kit, and Mini PC NUC11TN series, covering processors, memory, graphics, storage, and connectivity.
	<a href="#">Intel Desktop Processor Warranty FAQ: Eligibility, Exchange, and Troubleshooting</a> Comprehensive FAQ guide on Intel desktop processor warranties. Covers eligibility for boxed vs. OEM processors, warranty exchange procedures, troubleshooting steps, and identification of engineering samples. Get answers to common warranty questions for Intel CPUs.
	<a href="#">Intel@ NUC Board NUC7i5BNB and NUC7i7BNB Technical Product Specification</a> 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.
	<a href="#">Intel Core i7-4790K Processor User Manual and Technical Specifications</a> Comprehensive user manual and technical specifications for the Intel Core i7-4790K desktop processor, codenamed Haswell. Includes product overview, installation guide, overclocking guidelines, and troubleshooting tips for PC enthusiasts and builders.