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# Intel NUC 10 Performance Kit Core i7 Processor User Manual

Model: NUC 10

## INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your Intel NUC 10 Performance Kit with a Core i7 processor. The Intel NUC 10 is a compact, high-performance mini PC designed for various applications, from home office tasks to home theater and casual gaming. It features a 10th Generation Intel Core i7-10710U processor and Intel UHD Graphics.

The Intel NUC 10 Performance Kit is a barebones system, meaning it requires the user to install an operating system, memory (RAM), and storage drive (SSD) to become fully functional. This design allows for customization to meet specific user needs.

# THE POWER OF 10



*Image: The Intel NUC 10 Performance Kit, highlighting its 10th Generation Intel Core i7 processor.*

## PACKAGE CONTENTS

Before proceeding with the setup, ensure all components are present:

- Intel NUC 10 Performance Kit chassis
- Power adapter and regional power cord
- Vesa mount bracket with screws
- Quick Start Guide (this document serves as a comprehensive guide)

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

## SETUP

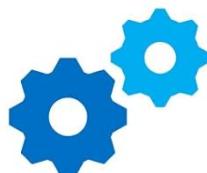
The Intel NUC 10 is a customizable kit. Follow these steps to prepare your NUC for first use:

## 1. Installing Memory (RAM)

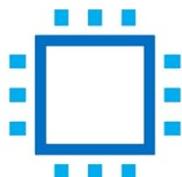
1. Unscrew the four bottom screws and carefully remove the bottom cover of the NUC chassis.
2. Locate the SO-DIMM memory slots on the motherboard. The NUC 10 supports up to 64GB of DDR4-2666MHz SO-DIMM RAM.
3. Align the notch on the memory module with the notch in the slot. Insert the module at a 45-degree angle and push down until the retaining clips snap into place.
4. If installing two modules, ensure they are installed in the correct slots for dual-channel operation (refer to the motherboard diagram if available, typically matching colored slots or adjacent slots).

# FULLY CUSTOMIZABLE KIT

**Choose your ideal:**



**OPERATING SYSTEM (OS)**



**MEMORY**



**STORAGE**

*Image: Illustration of the customizable nature of the Intel NUC, requiring user-supplied Operating System, Memory, and Storage.*

## 2. Installing Storage Drive (SSD)

1. The NUC 10 typically supports an M.2 SSD. Locate the M.2 slot on the motherboard.
2. Insert the M.2 SSD into the slot at an angle.
3. Gently push the SSD down and secure it with the small screw provided with the NUC or the SSD.
4. Some models may also support a 2.5-inch SATA drive. If so, install it in the designated bay and connect the SATA data and power cables.

### 3. Reassembling the Chassis

1. Carefully replace the bottom cover, ensuring it aligns correctly.
2. Secure the bottom cover with the four screws.

### 4. Connecting Peripherals

Connect your monitor, keyboard, mouse, and other peripherals to the appropriate ports. The NUC 10 features a variety of ports:

- **HDMI 2.0a:** For connecting to a display.
- **USB-C (DisplayPort 1.2):** For connecting to a display or other USB-C devices.
- **USB 3.1 Gen 2 Type-A ports:** For connecting USB devices.
- **Thunderbolt™ 3 port:** For high-speed data transfer and display connectivity.
- **Ethernet (RJ45):** For wired network connection.
- **Power Input (19V DC):** Connect the power adapter here.



*Image: Rear panel of the Intel NUC 10, displaying the power input, HDMI, Ethernet, USB 3.1, and USB-C/Thunderbolt 3 ports.*

### 5. Initial Power On and Operating System Installation

1. Connect the power adapter to the NUC and then to a power outlet.
2. Press the power button.
3. Access the BIOS/UEFI settings (usually by pressing **F2** during boot) to configure boot options if necessary.
4. Install your chosen operating system (e.g., Windows 10, Linux distribution) from a bootable USB drive. Ensure all necessary drivers are installed after the OS installation for full functionality, especially for network connectivity.

## OPERATING INSTRUCTIONS

Once the operating system is installed and configured, your Intel NUC 10 is ready for use.

- **Power On/Off:** Press the power button on the front panel to turn the NUC on or off. A short press initiates sleep mode, while a long press performs a forced shutdown.
- **Display Connectivity:** The NUC supports up to three displays simultaneously via HDMI 2.0a and USB-C (DisplayPort 1.2).

- **USB Ports:** Utilize the available USB 3.1 Gen 2 Type-A and Thunderbolt 3 ports for connecting external devices such as external hard drives, printers, and other peripherals.
- **Network Connectivity:** Connect to the internet via the Ethernet port for a wired connection or use the integrated Wi-Fi (802.11ax) for wireless access.
- **Audio:** Connect speakers or headphones to the audio jack, or use HDMI/DisplayPort for audio output to a compatible display.



*Image: The Intel NUC 10 integrated into a home environment, demonstrating its use for entertainment and casual gaming.*

## MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Intel NUC 10.

- **Keep it Clean:** Periodically clean the exterior of the NUC with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions to prevent overheating. Do not use liquid cleaners directly on the device.
- **Software Updates:** Regularly update your operating system, drivers (especially chipset, graphics, and network drivers), and BIOS/UEFI firmware. Visit the official Intel support website for the latest updates specific

to your NUC model.

- **Environmental Conditions:** Operate the NUC in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture.
- **Security:** Utilize the Kensington lock slot for physical security, if desired.

## TROUBLESHOOTING

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

- **No Power:**

- Ensure the power adapter is securely connected to both the NUC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.

- **No Display Output:**

- Check that the monitor is powered on and the video cable (HDMI or USB-C) is securely connected to both the NUC and the monitor.
- Try a different video cable or monitor if available.
- Ensure the correct input source is selected on your monitor.

- **No Network Connectivity (Wired/Wireless):**

- For wired connections, ensure the Ethernet cable is properly connected and your router/modem is working.
- For wireless connections, verify Wi-Fi is enabled in your operating system and you are connected to the correct network with the correct password.
- Ensure all network drivers are correctly installed. If drivers are missing, download them from the Intel support website using another device and transfer them via USB.

- **Operating System Not Booting:**

- Check BIOS/UEFI settings to ensure the correct boot device (SSD) is selected.
- If recently installed, ensure the operating system installation was completed successfully.

- **System Overheating/Fan Noise:**

- Ensure the NUC's ventilation openings are not blocked.
- Operate the NUC in a cool, well-ventilated environment.
- Update BIOS/UEFI firmware, as fan control improvements are often included in updates.

If problems persist, consult the Intel support website or contact their customer service.

## SPECIFICATIONS

Key technical specifications for the Intel NUC 10 Performance Kit (Model: NUC 10):

Feature	Detail
Processor	10th Generation Intel Core i7-10710U
Graphics	Intel UHD Graphics 620

Feature	Detail
Memory Support	Up to 64GB DDR4-2666MHz SO-DIMM (user-installed)
Storage Support	M.2 SSD slot, optional 2.5-inch SATA drive bay (user-installed)
Video Output	HDMI 2.0a, USB-C (DisplayPort 1.2) - Supports up to 3 displays
USB Ports	USB 3.1 Gen 2 Type-A, Thunderbolt 3 (via USB-C)
Network	Gigabit Ethernet, Intel Wi-Fi 6 (802.11ax)
Audio	3.5mm audio jack, Digital audio via HDMI/DisplayPort
Dimensions (LxWxH)	4.61 x 4.41 x 1.5 inches (11.7 x 11.2 x 3.8 cm)
Weight	Approximately 2.77 pounds (1.26 kg)
Operating System	None (user-installed, compatible with Windows 10, various Linux distros)

- **10TH GEN INTEL® CORE™ i7 PROCESSOR**
- **INTEL® UHD 4K GRAPHICS**
- **THUNDERBOLT™ 3, USB 3.1 & HDMI 2.0A PORTS**
- **MINIMAL FOOTPRINT & MOUNTABLE TO BACK OF DISPLAY**
- **PROTECT AGAINST THEFT USING A KENSINGTON LOCK**

*Image: Key features of the Intel NUC 10, including 10th Gen Intel Core i7, Intel UHD 4K Graphics, Thunderbolt 3, USB 3.1 & HDMI 2.0a ports, minimal footprint, and Kensington lock support.*

## WARRANTY INFORMATION

Intel NUC products typically come with a standard limited warranty. For detailed information regarding the warranty period, coverage, and terms and conditions applicable to your Intel NUC 10 Performance Kit, please refer to the warranty card included in your product packaging or visit the official Intel support website.

Keep your proof of purchase for warranty claims.

## SUPPORT

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For further assistance, technical support, driver downloads, or additional documentation, please visit the official Intel support website:

[Intel NUC Support](#)

You may also find helpful community forums and knowledge bases on the Intel website.

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