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> Intel NUC NUC5i5RYH User Manual: Core i5 Mini PC with 2.5-Inch Drive Support

## Intel NUC5i5RYH

# Intel NUC NUC5i5RYH User Manual

Model: NUC5i5RYH | Brand: Intel

## 1. OVERVIEW

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The Intel NUC NUC5i5RYH is a compact desktop system designed for versatile computing. It integrates the capabilities of a full desktop PC into a small form factor, measuring approximately 4x4 inches. This unit is built with a 5th generation Intel Core i5 processor, offering performance suitable for various tasks including media consumption, content creation, and general office use. Its design allows for customization with user-supplied memory and storage components, including support for a 2.5-inch drive.



Figure 1: Intel NUC NUC5i5RYH Mini PC

## Product Video Overview

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Video 1: Official product overview highlighting the compact size and versatile applications of the Intel NUC.

## 2. WHAT'S IN THE BOX

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The Intel NUC NUC5i5RYH is a barebones kit, meaning essential components like RAM and storage are not included and must be purchased separately. The package typically contains:

- Intel NUC NUC5i5RYH Unit
- Power Adapter
- VESA Mounting Plate and Screws
- Quick Start Guide

**Note:** Memory (RAM), storage (SSD/HDD), and an operating system are not included and must be installed by the user.

## 3. SETUP AND INSTALLATION

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This section outlines the general steps for setting up your Intel NUC. For detailed instructions, refer to the comprehensive installation guide available on the Intel support website.

### 3.1 Installing Memory (RAM)

1. Unscrew the bottom cover of the NUC unit.
2. Locate the two SODIMM memory slots.
3. Insert DDR3L SODIMM modules (up to 16GB total) into the slots, ensuring they are seated correctly and the clips engage. If installing a single 8GB module, use the lower slot.
4. Replace the bottom cover.

### 3.2 Installing Storage

The NUC5i5RYH supports both 2.5-inch SATA drives (HDD or SSD) and M.2 SSDs.

#### For 2.5-inch SATA Drive:

1. With the bottom cover removed, locate the 2.5-inch drive bay.
2. Carefully connect the SATA data and power cables to your 2.5-inch drive.
3. Secure the drive in the bay using the provided screws. Ensure the drive height does not exceed 7mm.

#### For M.2 SSD:

1. Locate the M.2 slot on the motherboard.
2. Insert the M.2 SSD into the slot at an angle and then gently push it down.
3. Secure the M.2 SSD with the small screw provided with the NUC.

### 3.3 Connecting Peripherals

- **Display:** Connect your monitor to the NUC using an HDMI or DisplayPort cable. Note that the NUC features a Mini-HDMI port, which may require an adapter for standard HDMI cables.
- **USB Devices:** Connect your keyboard, mouse, and other USB devices to the available USB 3.0 ports.
- **Network:** Connect an Ethernet cable for wired network access, or use the built-in Wi-Fi.
- **Audio:** Connect speakers or headphones to the audio jack.

### 3.4 Operating System Installation

After installing memory and storage, install your preferred operating system (e.g., Windows 7, 8.1, 10, or Linux distributions like Ubuntu) from a USB drive or network source. Ensure you download the latest drivers from the Intel support website for optimal performance.

## 4. OPERATING YOUR INTEL NUC

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Once setup is complete and the operating system is installed, your Intel NUC is ready for use.

### 4.1 Power On/Off

Press the power button located on the top of the unit to turn the NUC on or off. A short press will typically put the system to sleep, while a longer press will force a shutdown.

### 4.2 Display and Audio

The Intel NUC NUC5i5RYH supports high-resolution displays up to 3840x2160 (4K) via HDMI and DisplayPort. Ensure your display is set to the correct input source. Audio output is available through HDMI (for displays with integrated speakers) or the 3.5mm audio jack.

## 4.3 Connectivity

Utilize the multiple USB 3.0 ports for high-speed data transfer and peripheral connections. The integrated Wi-Fi and Ethernet port provide flexible network options.

## 5. MAINTENANCE

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

- **Keep 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.
- **Software Updates:** Regularly update your operating system, drivers, and BIOS. Visit the Intel support website for the latest driver and BIOS updates specific to the NUC5i5RYH model.
- **Fan Noise:** The NUC is designed to be quiet, but fan noise may become noticeable under heavy load. Ensure proper ventilation and keep the unit in an area where minor fan sounds are not disruptive.

## 6. TROUBLESHOOTING

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

### 6.1 Display Issues

- **No Display/Black Screen:** Ensure all display cables are securely connected. Verify the monitor is set to the correct input source. If using a Mini-HDMI to HDMI adapter, ensure it is functioning correctly.
- **Occasional Display Snow:** This can sometimes occur. Try changing the HDMI input on your TV/monitor and then switching back. Ensure your display drivers are up to date. Consider trying a different Mini-HDMI to HDMI cable.
- **4K Resolution at 30Hz instead of 60Hz:** The Mini-HDMI port is HDMI 1.4, which supports 4K at 30Hz. For 4K at 60Hz, use the DisplayPort with an active adapter to HDMI 2.0 if your display requires HDMI.
- **DRM Issues with DisplayPort:** Some users have reported issues with Digital Rights Management (DRM) when using DisplayPort with certain applications (e.g., Windows Media Center). This may be a limitation of the DisplayPort or the adapter used.

### 6.2 Performance Issues

- **Slow Performance:** Ensure sufficient RAM is installed (up to 16GB DDR3L). Verify that your storage drive (SSD/HDD) is functioning correctly and has enough free space. Check for background processes consuming resources.
- **Overheating:** Ensure the NUC is placed in a well-ventilated area and that its vents are not blocked. Dust accumulation can impede airflow; refer to the maintenance section for cleaning.

### 6.3 Connectivity Issues

- **Wi-Fi/Bluetooth Problems:** Ensure wireless drivers are installed and up to date. Check for interference from other devices.
- **USB Device Not Recognized:** Try connecting the device to a different USB port. Ensure the device drivers are installed.

## 7. SPECIFICATIONS

Feature	Detail
Brand	Intel
Model Number	BOXNUC5i5RYH
CPU Model	Intel Core i5-5250U
CPU Speed	2.5 GHz
Graphics Coprocessor	Intel HD Graphics 6000
RAM Memory Technology	DDR3L 1600 MHz
Max RAM Memory	16 GB
Hard Disk Interface	Serial ATA (for 2.5" HDD/SSD), M.2
Storage Drive Support	2.5-inch SATA HDD/SSD (max 7mm height)
USB Ports	6 (USB 3.0)
Video Output	Mini-HDMI (HDMI 1.4), Mini DisplayPort
Max Display Resolution	3840x2160 (4K)
Wireless Connectivity	Wi-Fi (802.11ac), Bluetooth
Network Interface	Gigabit Ethernet
Item Dimensions (L x W x H)	5.4 x 3.94 x 4.92 inches
Item Weight	0.9 Pounds
Operating System Support	Windows 7, 8.1, 10, Linux (user installed)

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Intel website or contact Intel customer service directly. Intel provides comprehensive support resources, including drivers, documentation, and troubleshooting guides for NUC products.

Users have reported positive experiences with Intel's support, noting prompt and helpful assistance for product-related inquiries and replacements.

**Intel Support Website:** <https://www.intel.com/content/www/us/en/support/products/83916/mini-pcs/intel-nuc-kits/intel-nuc-kit-with-5th-generation-intel-core-processors.html>