

## Intel NUC11PAHi7

# Intel NUC11PAHi7 Mini Desktop User Manual

Model: NUC11PAHi7

## 1. INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your Intel NUC11PAHi7 Mini Desktop. The Intel NUC11PAHi7 is a compact computing device designed for home and business use, featuring an Intel Core i7-1165G7 processor, 16GB RAM, and a 512GB SSD, running Windows 11 Pro. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

## 2. SAFETY INFORMATION

- Always disconnect the power adapter before cleaning or performing any maintenance.
- Do not expose the device to water, moisture, or extreme temperatures.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Use only the power adapter supplied with the device or an approved replacement.
- Avoid placing heavy objects on the device.
- This device is intended for indoor use only.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package. If any items are missing or damaged, contact your retailer.

- Intel NUC11PAHi7 Mini Desktop Unit
- Power Adapter and Cord
- (Potentially) VESA Mounting Bracket (may vary by region/bundle)
- (Potentially) Webcam (as listed in product details, may be an accessory for renewed unit)
- Quick Start Guide (this manual serves as a comprehensive guide)

## 4. PRODUCT FEATURES AND COMPONENTS

### 4.1 Front Panel



Figure 4.1: Front view of the Intel NUC11PAHi7 Mini Desktop. This image displays the front panel of the NUC, highlighting the various ports and controls available for user interaction. From left to right, it features a Thunderbolt 4 port (USB-C), a USB 3.2 Gen 2 Type-A port, a 3.5mm audio jack (headphone/microphone combo), and the illuminated power button. An SD card slot is visible on the left side panel.

- **SD Card Slot:** For inserting SD memory cards.
- **Thunderbolt 4 Port (USB-C):** Supports data transfer, video output, and power delivery.
- **USB 3.2 Gen 2 Type-A Port:** For connecting USB devices such as keyboards, mice, or external storage.
- **3.5mm Audio Jack:** For connecting headphones or a headset with a microphone.
- **Power Button:** Press to power on/off the device. The button illuminates when the device is on.

## 4.2 Rear Panel



Figure 4.2: Rear view of the Intel NUC11PAHi7 Mini Desktop. This image illustrates the rear panel connectivity options. From left to right, it includes the DC power input (19V), a Mini DisplayPort, an Ethernet (RJ-45) port, two USB 3.2 Gen 2 Type-A ports, a Thunderbolt 4 port (USB-C), and an HDMI port. These ports provide comprehensive options for power, display, networking, and peripheral connections.

- **DC Power Input (19V):** Connect the power adapter here.
- **Mini DisplayPort:** For connecting to a display.
- **Ethernet (RJ-45) Port:** For wired network connection.
- **USB 3.2 Gen 2 Type-A Ports (x2):** For connecting additional USB devices.

- **Thunderbolt 4 Port (USB-C):** Supports data transfer, video output, and power delivery.
- **HDMI Port:** For connecting to a display.

## 5. SETUP

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### 5.1 Initial Setup

1. **Connect Display:** Connect your monitor or TV to the NUC using an HDMI cable, DisplayPort cable, or a USB-C to DisplayPort/HDMI adapter.
2. **Connect Peripherals:** Plug in your USB keyboard and mouse into any available USB Type-A ports on the front or rear panel.
3. **Connect Network (Optional):** For a wired connection, connect an Ethernet cable from your router/modem to the Ethernet port on the rear panel. For wireless, ensure your Wi-Fi network is available.
4. **Connect Power:** Plug the power adapter into the DC power input on the rear panel, then plug the power cord into an electrical outlet.
5. **Power On:** Press the power button on the front panel. The NUC will boot up, and you should see the operating system loading on your display.

### 5.2 Operating System Setup

Your Intel NUC comes pre-installed with Windows 11 Pro. Upon first boot, you will be guided through the initial Windows setup process, which includes:

- Selecting your region and keyboard layout.
- Connecting to a network (if not already connected via Ethernet).
- Signing in with a Microsoft account or creating a local account.
- Setting up privacy settings.

Follow the on-screen instructions to complete the setup.

## 6. OPERATING THE INTEL NUC

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### 6.1 Power On/Off

- **To Power On:** Press the power button on the front panel.
- **To Power Off:** In Windows, click the Start button, then Power, and select "Shut down." Alternatively, press and hold the power button for 4 seconds to force a shutdown (use only if the system is unresponsive).
- **Sleep Mode:** In Windows, click the Start button, then Power, and select "Sleep."

### 6.2 Network Connectivity

The NUC supports both wired (Ethernet) and wireless (Wi-Fi) network connections.

- **Wired:** Connect an Ethernet cable to the RJ-45 port on the rear panel.
- **Wireless:** In Windows, click the Wi-Fi icon in the taskbar, select your desired network, enter the password, and connect.

### 6.3 Connecting External Devices

Utilize the various USB ports (Type-A and Type-C/Thunderbolt) for connecting external hard drives, printers, webcams, and other peripherals. The Thunderbolt 4 ports offer high-speed data transfer and display capabilities.

## 7. MAINTENANCE

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### 7.1 Cleaning

- Ensure the device is powered off and unplugged before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe the exterior.
- Do not use harsh chemicals or abrasive cleaners.
- Use compressed air to gently clear dust from ventilation openings, holding the can upright to prevent liquid discharge.

### 7.2 Software Updates

Regularly update your operating system and drivers to ensure optimal performance and security.

- **Windows Updates:** Go to *Settings > Windows Update* to check for and install the latest operating system updates.
- **Driver Updates:** Visit the Intel support website for your NUC model to download and install the latest drivers for graphics, chipset, network, and other components.

## 8. TROUBLESHOOTING

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

### 8.1 No Power

- Ensure the power adapter is securely connected to both the NUC and a working electrical outlet.
- Verify the power outlet is functional by plugging in another device.
- Check the power adapter for any visible damage.

### 8.2 No Display Output

- Confirm that the display cable (HDMI, DisplayPort, or USB-C) is securely connected to both the NUC and the monitor.
- Ensure the monitor is powered on and set to the correct input source.
- Try a different display cable or monitor if available.
- If using a USB-C port for display, ensure your cable and monitor support video output via USB-C.

### 8.3 Network Connectivity Issues

- **Wired:** Check if the Ethernet cable is properly connected and if the network lights on the NUC's Ethernet port are active. Restart your router/modem.
- **Wireless:** Ensure Wi-Fi is enabled in Windows settings. Verify your Wi-Fi password and try reconnecting. Restart your router/modem.
- Check device drivers for network adapters in Windows Device Manager.

## 9. SPECIFICATIONS

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The following table outlines the key technical specifications for the Intel NUC11PAHi7 Mini Desktop.

Feature	Specification
Model	Intel NUC11PAHi7

Feature	Specification
Processor	Intel Core i7-1165G7 (2.8 GHz, 4-Core)
RAM	16 GB DDR4 SDRAM
Storage	512 GB SATA SSD
Graphics	Integrated Intel Iris Xe Graphics
Operating System	Windows 11 Pro
Connectivity	Wi-Fi, Bluetooth, Ethernet
Ports (Front)	1x Thunderbolt 4 (USB-C), 1x USB 3.2 Gen 2 Type-A, 1x 3.5mm Audio Jack, SD Card Slot
Ports (Rear)	1x DC Power Input, 1x Mini DisplayPort, 1x Ethernet (RJ-45), 2x USB 3.2 Gen 2 Type-A, 1x Thunderbolt 4 (USB-C), 1x HDMI
Color	Black
Platform	PC

## 10. WARRANTY AND SUPPORT






As this is a renewed product, warranty terms may vary. Please refer to the specific warranty information provided by your retailer or the Amazon Renewed program at the time of purchase. For technical support, driver downloads, and further assistance, visit the official Intel support website or contact your reseller.

**Intel Support:** <https://www.intel.com/content/www/us/en/support/products/125484/mini-pcs/intel-nuc-kits.html> (Example link, actual link might vary for specific model)



### Related Documents - NUC11PAHi7

<div><div>Intel® NUC Aptio V BIOS Glossary Revision 2.0 - February 2020</div></div>	<div><a href="#">Intel® NUC Aptio V BIOS Glossary - Revision 2.0</a> A comprehensive glossary of BIOS settings for Intel® NUC systems utilizing the Aptio V BIOS, detailing various configuration options and their functions.</div>
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  Intel® NUC8i7BEKQA, Intel® NUC8i5BEKPA User Guide	<p><a href="#">Intel NUC 8 Enthusiast &amp; Home User Guide   NUC8i7BEKQA, NUC8i5BEKPA</a></p> <p>Official user guide for the Intel NUC 8 Enthusiast (NUC8i7BEKQA) and Intel NUC 8 Home (NUC8i5BEKPA) mini PCs. Learn about installation, memory upgrades, M.2 SSD installation, VESA mounting, power connection, Windows 10 setup, driver updates, and OS recovery.</p>																																		
  Intel Core i7-4790K Processor – User Manual Product Overview The Intel Core i7-4790K processor is a 4th generation Intel Core processor designed for desktop PCs. It features 4 cores, 8 threads, and a base clock of 4.0 GHz. The processor is designed to deliver high performance and energy efficiency for desktop PCs. For more information, visit <a href="#">www.intel.com/products/processors/desktop</a> . Selected Specifications <table><thead><tr><th>Specification</th><th>Value</th></tr></thead><tbody><tr><td>Processor Name</td><td>i7-4790K</td></tr><tr><td>Core i7 Code Name</td><td>Haswell</td></tr><tr><td># of Cores</td><td>4</td></tr><tr><td># of Threads</td><td>8</td></tr><tr><td>Processor Base Frequency</td><td>4.0 GHz</td></tr><tr><td>Max Turbo Frequency</td><td>4.4 GHz</td></tr><tr><td>CACHE</td><td>8 MB Intel® Smart Cache</td></tr><tr><td>Max Power</td><td>84 W TDP</td></tr><tr><td>Socket</td><td>LGA1150</td></tr><tr><td>Max Temp</td><td>100°C (32°F)</td></tr><tr><td>Max Power (TDP)</td><td>84 W</td></tr><tr><td>Max Memory (DDR3)</td><td>32 GB</td></tr><tr><td>Max # of SATA Channels</td><td>6</td></tr><tr><td>Max Memory Bandwidth</td><td>32 GB/s</td></tr><tr><td>Max SATA Ports</td><td>6</td></tr><tr><td>Max SATA Ports (SATA 6 Gb/s)</td><td>6</td></tr></tbody></table>	Specification	Value	Processor Name	i7-4790K	Core i7 Code Name	Haswell	# of Cores	4	# of Threads	8	Processor Base Frequency	4.0 GHz	Max Turbo Frequency	4.4 GHz	CACHE	8 MB Intel® Smart Cache	Max Power	84 W TDP	Socket	LGA1150	Max Temp	100°C (32°F)	Max Power (TDP)	84 W	Max Memory (DDR3)	32 GB	Max # of SATA Channels	6	Max Memory Bandwidth	32 GB/s	Max SATA Ports	6	Max SATA Ports (SATA 6 Gb/s)	6	<p><a href="#">Intel Core i7-4790K Processor User Manual and Technical Specifications</a></p> <p>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.</p>
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  6th Generation Intel® Processor Families for S-Platforms Datasheet, Volume 1 of 2 This document describes the 6th Generation Intel® Core™, Pentium®, and Celeron® processor families designed for Desktop S-Platforms. It provides detailed information on processor specifications, interfaces, technologies, power management, and thermal management. For more information, visit <a href="#">www.intel.com/products/processors/desktop</a> . January 2017	<p><a href="#">6th Generation Intel® Processor Families for S-Platforms Datasheet</a></p> <p>Detailed technical datasheet for Intel® Core™, Pentium®, and Celeron® 6th Generation processors designed for Desktop S-Platforms. Covers specifications, interfaces, technologies, power management, and thermal management.</p>																																		
  Intel® NUC7i3DNHNC User Guide	<p><a href="#">Intel NUC7 Business User Guide: Installation and Operation</a></p> <p>Comprehensive user guide for the Intel NUC7 Business Mini PC (NUC7i3DNHNC), covering installation, memory upgrades, storage changes, VESA mounting, power connection, Windows setup, driver updates, and OS recovery.</p>																																		
  Intel® Desktop Board D946GZAB Product Guide	<p><a href="#">Intel® Desktop Board D946GZAB Product Guide</a></p> <p>Comprehensive product guide for the Intel® Desktop Board D946GZAB, detailing features, installation, BIOS updates, and regulatory compliance for PC builders and technicians.</p>																																		