

Intel NUC11TNHi7

Intel NUC 11 Pro NUC11TNHi7 Barebone System User Manual

Model: NUC11TNHi7

1. INTRODUCTION

The Intel NUC 11 Pro NUC11TNHi7 is an ultra-compact barebone system designed for a wide range of applications, from business and education to home computing. This kit provides a customizable board and chassis, allowing users to select and install their preferred memory, storage, and operating system. Its small footprint and robust performance make it an ideal solution for space-constrained environments requiring powerful computing capabilities.

2. SAFETY INFORMATION

Please read all safety instructions carefully before setting up or using your Intel NUC system. Failure to follow these instructions may result in electric shock, fire, or damage to the device.

- **Electrical Safety:** Always disconnect the power adapter from the electrical outlet before performing any service or installation procedures. Use only the power adapter provided with your NUC or a compatible replacement.
- **Ventilation:** Ensure proper airflow around the NUC. Do not block ventilation openings. Operating the NUC in an enclosed space without adequate ventilation can lead to overheating.
- **Handling Components:** When installing or removing internal components (RAM, SSD), always handle them by their edges to avoid touching sensitive connectors or components. Use an anti-static wrist strap to prevent electrostatic discharge (ESD) damage.
- **Environment:** Do not expose the NUC to water, moisture, or extreme temperatures. Operate the device within its specified temperature and humidity ranges.

3. PACKAGE CONTENTS

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

- Intel NUC 11 Pro NUC11TNHi7 Barebone System

- Power Adapter (AC/DC)
- Documentation (Quick Start Guide, Safety Information)



Image of the Intel NUC 11 Pro NUC11TNHi7 barebone system, showcasing its compact design and front ports.

4. SETUP

The Intel NUC 11 Pro NUC11TNHi7 is a barebone system, meaning you will need to install memory (RAM) and storage (SSD) before installing an operating system.

4.1. Installing Memory (RAM)

1. Unscrew the bottom cover of the NUC chassis and carefully remove it.
2. Locate the DDR4 SDRAM memory slots on the motherboard.
3. Align the notch on the DDR4 SODIMM module with the notch in the memory slot.
4. Insert the module firmly into the slot at a 45-degree angle, then push down until the retaining clips snap into place.

5. Repeat for additional memory modules if applicable. The NUC supports up to 64 GB of DDR4 SDRAM.

4.2. Installing Storage (SSD)

The NUC supports Serial ATA (SATA) storage devices. Depending on your specific NUC model, it may also support M.2 NVMe SSDs.

1. Identify the SATA data and power connectors on the motherboard and the corresponding bay for a 2.5-inch drive, or the M.2 slot for an M.2 SSD.
2. For 2.5-inch drives: Secure the drive in the designated bay and connect the SATA data and power cables.
3. For M.2 SSDs: Insert the M.2 SSD into the slot at an angle, then push down and secure it with the provided screw.

4.3. Reassembling the Chassis

1. Carefully replace the bottom cover of the NUC chassis.
2. Secure the bottom cover with the screws removed earlier.

4.4. Connecting Peripherals

1. **Monitor:** Connect your monitor to the NUC using an HDMI cable.
2. **Keyboard and Mouse:** Connect your USB keyboard and mouse to any of the available USB ports.
3. **Power:** Connect the power adapter to the NUC's power input, then plug the power cord into an electrical outlet.

4.5. Installing Operating System

Since this is a barebone system, an operating system is not pre-installed. You will need to install your preferred operating system (e.g., Windows, Linux) from a bootable USB drive or network source. Refer to your operating system's installation guide for detailed steps.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

- **Power On:** Press the power button located on the front of the NUC. The power indicator light will illuminate.
- **Power Off:** To shut down the system, use the operating system's shutdown procedure. For a forced shutdown, press and hold the power button for approximately 4 seconds until the system powers off.

5.2. Network Connectivity

- **Wi-Fi:** The NUC supports Wi-Fi connectivity. Once your operating system is installed, configure your wireless network settings to connect to an available Wi-Fi network.
- **Bluetooth:** The NUC includes Bluetooth for connecting wireless peripherals such as keyboards, mice, and headphones. Enable Bluetooth in your operating system settings and pair your devices.

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the NUC. For dust accumulation in vents, use compressed air. Do not use liquid cleaners directly on the device.
- **Software Updates:** Regularly update your operating system, drivers, and BIOS/firmware to ensure system

stability, security, and performance. Visit the Intel support website for the latest drivers and BIOS updates for your NUC model.

- **Environmental Conditions:** Operate the NUC in a clean, dry environment with adequate ventilation. Avoid extreme temperatures and direct sunlight.

7. TROUBLESHOOTING

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

- **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.
- **No Display:**
 - Confirm the monitor is powered on and correctly connected to the NUC via an HDMI cable.
 - Try a different HDMI cable or monitor if available.
 - Ensure RAM modules are properly seated in their slots.
- **Peripheral Not Detected:**
 - Try connecting the peripheral to a different USB port.
 - Ensure the peripheral's drivers are installed in your operating system.
 - Test the peripheral on another computer to confirm it is functional.
- **System Overheating:**
 - Ensure the NUC's ventilation openings are not blocked.
 - Operate the NUC in a well-ventilated area.
 - Clean any dust from the vents using compressed air.

8. SPECIFICATIONS

Below are the key technical specifications for the Intel NUC 11 Pro NUC11TNHi7 Barebone System:

| Feature | Specification |
|------------------------|----------------------------------|
| Brand | Intel |
| Model Name | NUC 11 Pro |
| Model Number | NUC11TNHi7 |
| CPU Model | Intel Core i7-1165G7 (11th Gen) |
| CPU Speed | Up to 4.7 GHz |
| Operating System | Barebone System (No OS included) |
| RAM Memory Technology | DDR4 SDRAM |
| Max RAM Memory Size | 64 GB |
| Memory Slots Available | 1 (SODIMM) |

| Feature | Specification |
|-------------------------|---|
| Hard Disk Interface | Serial ATA (SATA) |
| Graphics Card | Integrated Intel Graphics |
| Video Output Interface | HDMI |
| Total USB Ports | 9 |
| Connectivity Technology | Bluetooth, HDMI, USB, Wireless LAN (Wi-Fi) |
| Item Dimensions (LxWxH) | 4.6 x 4.4 x 2.1 inches |
| Power Plug Type | No Plug (Power Adapter included, cord may vary by region) |
| UPC | 735858505253 |

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your Intel NUC or visit the official Intel support website. Intel provides resources including drivers, software, and troubleshooting guides for their products.

You can typically find support by visiting [Intel's Official Support Page](#) and searching for your specific NUC model (NUC11TNHi7).