Intel NUC11BTMi9

Intel NUC 11 Extreme Kit NUC11BTMi9 Gaming Barebone System User Manual

Model: NUC11BTMi9 | **Brand:** Intel

Product Overview

The Intel NUC 11 Extreme Kit (NUC11BTMi9) is a high-performance barebone mini PC designed for gaming and demanding applications. It offers uncompromised performance within a compact form factor, allowing users to customize it with their preferred RAM, storage, and operating system.

Figure 1: Front angled view of the Intel NUC 11 Extreme Kit, showcasing its compact design and the illuminated skull logo.

Package Contents

Verify that all items are present in the package before proceeding with setup:

- Intel NUC 11 Extreme Kit (NUC11BTMi9) Barebone System
- US Power Cord
- Documentation (Quick Start Guide, Safety Information)

Note: Additional components such as RAM, storage drives, and operating system are sold separately and are required for full system functionality.

Setup Guide

This section outlines the steps required to set up your Intel NUC 11 Extreme Kit. As a barebone system, it requires the installation of memory (RAM) and storage (SSD) before initial use.

1. Installing Memory (RAM)

1. Unscrew and remove the top cover of the NUC chassis.
2. Locate the DDR4 SO-DIMM slots on the motherboard.
3. Align the notch on the SO-DIMM module with the notch in the slot.
4. Insert the module at a 45-degree angle and press down firmly until the retaining clips snap into place.
5. Repeat for additional memory modules if applicable.

2. Installing Storage (SSD)

The NUC 11 Extreme Kit supports M.2 NVMe SSDs.

1. Locate the M.2 slots on the motherboard.
2. Insert the M.2 SSD into the slot at an angle.
3. Gently push down the SSD and secure it with the provided screw.
4. The system also supports Serial ATA/600 interface for additional storage options.

3. Connecting Peripherals

Connect your monitor, keyboard, mouse, and other peripherals to the appropriate ports. The system features 12 USB ports for extensive connectivity.

Figure 2: Rear view of the Intel NUC 11 Extreme Kit, highlighting the array of input/output ports for connecting external devices.

- **Display:** Connect your monitor using HDMI or DisplayPort.
- **USB Devices:** Use the available USB ports for keyboard, mouse, external drives, etc.
- **Network:** Connect an Ethernet cable for wired network access, or use the integrated Wi-Fi.
- **Audio:** Connect speakers or headphones to the audio jacks.

4. Power Connection

Connect the provided power cord to the NUC and then to a power outlet.

5. Operating System Installation

Once RAM and storage are installed, you will need to install an operating system (e.g., Windows 10, Linux) from a bootable USB drive or disc.

Operating Instructions

This section provides basic instructions for operating your Intel NUC 11 Extreme Kit.

Powering On/Off

- **Power On:** Press the power button located on the front of the unit. The power indicator light will illuminate.
- **Power Off:**
  - **Standard Shutdown:** Use the operating system's shutdown function.
  - **Forced Shutdown:** Press and hold the power button for 5-10 seconds until the unit powers off. Use this only as a last resort.

Figure 3: Front view of the Intel NUC 11 Extreme Kit, showing the power button and front panel connectivity options.

Connecting USB Devices

The NUC 11 Extreme Kit offers numerous USB ports (up to 12) for connecting various peripherals. Devices can be connected or disconnected without needing to shut down the system.

BIOS/UEFI Access

To access the BIOS/UEFI settings, power on the system and repeatedly press the**F2** key during startup. This allows configuration of boot order, system settings, and hardware diagnostics.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your Intel NUC 11 Extreme Kit.

- **Cleaning:** Regularly clean the exterior with a soft, dry cloth. Use compressed air to clear dust from vents and fan areas to ensure proper airflow and prevent overheating. Ensure the system is powered off and unplugged before cleaning.
- **Software Updates:** Keep your operating system, drivers, and BIOS/UEFI firmware updated to the latest versions. Visit the official Intel support website for driver downloads specific to the NUC11BTMi9 model.
- **Ventilation:** Ensure the NUC is placed in a well-ventilated area, away from direct sunlight or heat sources. Do not block the ventilation openings.
- **Data Backup:** Regularly back up important data to an external drive or cloud storage to prevent data loss.

Troubleshooting

This section provides solutions to common issues you might encounter with your Intel NUC 11 Extreme Kit.

No Power / System Does Not Turn On

- Ensure the power cord is securely connected to both the NUC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- If using a power strip or surge protector, ensure it is switched on.

No Display Output

- Check that the monitor is powered on and the video cable (HDMI/DisplayPort) is securely connected to both the NUC and the monitor.
- Try a different video cable or monitor if available.
- Ensure RAM modules are properly seated in their slots. Reseat them if necessary.

System Freezes or Crashes

- Ensure the system has adequate ventilation and is not overheating.
- Update your operating system and device drivers to the latest versions.
- Run a memory diagnostic tool to check for RAM issues.
- Check the health of your storage drive.

Peripheral Not Detected

- Try connecting the peripheral to a different USB port.
- Ensure the peripheral's drivers are installed and up to date.
- Restart the system.

Technical Specifications

Below are the key technical specifications for the Intel NUC 11 Extreme Kit (NUC11BTMi9).

Figure 4: Side view of the Intel NUC 11 Extreme Kit, illustrating its physical dimensions.

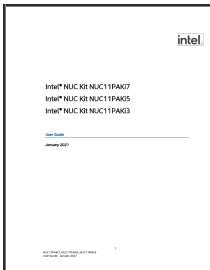
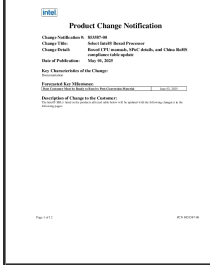
Feature	Specification
Model Number	NUC11BTMi9
Processor	Intel Core i9-11900KB Octa-core (8 Core) @ 3.3 GHz
Memory (RAM) Type	DDR4 SDRAM (Barebone - user installable)
Storage Interface	M.2 (SSD), Serial ATA/600
Graphics Coprocessor	Intel UHD Graphics
Graphics Card Ram Size	8 GB (Integrated)
Wireless Connectivity	Bluetooth, Wi-Fi
USB Ports	12
Operating System (Pre-installed)	None (Supports Windows 10)

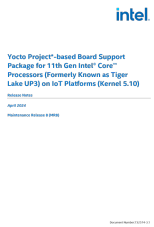
Feature	Specification
Item Weight	5 pounds
Package Dimensions	21.1 x 15 x 13.6 inches
Color	Black
First Available Date	October 13, 2021

Warranty and Support

Intel provides a limited warranty for its NUC products. For detailed warranty information, technical support, driver downloads, and troubleshooting resources, please visit the official Intel support website.
You can typically find support by searching for "Intel NUC support" or by visitingIntel's Official Support Page.
When contacting support, please have your product model number (NUC11BTMi9) and serial number ready.

Related Documents - NUC11BTMi9

	Intel NUC Kit NUC11PAKi Series User Guide 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.
	Intel Product Change Notification 853587-00: Boxed Processor Updates 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.

	[Yocto Project*-based BSP for 11th Gen Intel® Core™ Processors on IoT Platforms - Release Notes MR8] This document provides the official release notes for the Yocto Project*-based Board Support Package (BSP) for 11th Gen Intel® Core™ Processors (Tiger Lake UP3) on IoT Platforms, featuring Kernel 5.10 and Maintenance Release 8 (MR8). It details hardware and software configurations, component release notes, known issues, and fixes relevant to developers working with Intel's IoT solutions.
	[Intel® NUC NUC11TN Series Technical Product Specification] Detailed technical specifications for Intel® NUC Board, Kit, and Mini PC NUC11TN series, covering processors, memory, graphics, storage, and connectivity.
	[Intel Yocto Project BSP Release Notes for 11th Gen Intel Tiger Lake-H IoT Platforms] Release notes for the Yocto Project*-based Board Support Package (BSP) for 11th Gen Intel® Core™ vPro®, Intel® Xeon® W-11000E Series, and Intel® Celeron® Processors (Tiger Lake-H) on IoT Platforms, Kernel 5.10. Details component versions, features, known issues, and fixes.
	[Intel® NUC Board NUC7i5BNB and NUC7i7BNB Technical Product Specification] 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.