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Model: NUC11ATKPE

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your Intel NUC 11 Essential NUC11ATKPE Barebone System. The Intel NUC (Next Unit of Computing) is a miniature PC barebone kit that offers a compact yet powerful computing solution. This barebone system requires the installation of RAM and a storage drive (M.2 SSD) to become a fully functional computer.

2. SAFETY INFORMATION

Please read all safety instructions carefully before using the product. Failure to follow these instructions may result in electric shock, fire, or damage to the device.

- Use only the power adapter supplied with the Intel NUC.
- Do not expose the device to water, moisture, or extreme temperatures.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Disconnect the power cord before performing any maintenance or installation procedures.
- Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Intel NUC 11 Essential NUC11ATKPE Barebone System Unit
- AC Power Adapter with US Cord
- VESA Mounting Bracket with Screws
- Quick Start Guide / Setup Poster

Note: RAM (DDR4 SO-DIMM) and M.2 SSD storage are not included and must be purchased separately.

4. SETUP

4.1 Installing Components

Before connecting power, you must install the necessary memory and storage components.

1. **Open the Chassis:** Carefully remove the bottom cover of the NUC unit. Refer to the quick start guide for specific instructions on opening your model.
2. **Install RAM:** Locate the two DDR4 SO-DIMM slots. Insert the memory modules firmly into the slots at a 45-degree angle, then push down until the clips on both sides snap into place.
3. **Install M.2 SSD:** Locate the M.2 slot. Insert the M.2 SSD into the slot, ensuring it is fully seated. Secure it with the provided screw.
4. **Close the Chassis:** Replace the bottom cover, ensuring it is securely fastened.

4.2 Connecting Peripherals

Connect your display, keyboard, mouse, and power adapter.



Figure 1: Front and side view of the Intel NUC 11 Essential NUC11ATKPE, showing USB ports, audio jack, and power button on the front, and a Kensington lock slot on the side.

- **Display:** Connect your monitor to the HDMI or DisplayPort (DP++) output on the rear of the NUC.
- **USB Devices:** Connect your keyboard, mouse, and other USB devices to the available USB 3.2 Gen 1 (front) or USB 3.2 Gen 2 / USB 2.0 (rear) ports.
- **Network:** For wired internet, connect an Ethernet cable to the RJ45 port. For wireless, ensure your NUC has a Wi-Fi module installed (if not integrated).
- **Power:** Connect the power adapter to the DC input jack on the NUC, then plug the power cord into an electrical outlet.

4.3 Initial Boot and Operating System Installation

Once all components and peripherals are connected:

1. Press the power button on the front of the NUC.
2. The NUC will power on. You may need to enter the BIOS/UEFI setup (typically by pressing **F2** during boot) to configure boot order or other settings.
3. Install your preferred operating system (e.g., Windows 10, Windows 11, or Linux) from a bootable USB drive or network source. Follow the on-screen instructions for OS installation.
4. After OS installation, install the latest drivers for your Intel NUC, which can be found on the official Intel support website.

5. OPERATING INSTRUCTIONS

- **Power On/Off:** Press the power button once to turn on. To turn off, use the operating system's shutdown function or press and hold the power button for 4 seconds.
- **BIOS/UEFI Access:** During startup, repeatedly press the **F2** key to enter the BIOS/UEFI setup utility.

- **Boot Menu:** During startup, repeatedly press the **F10** key to access the boot device menu.
- **System Recovery:** During startup, repeatedly press the **F7** key to perform a BIOS update or system recovery.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the NUC. Do not use liquid cleaners or aerosols. For dust accumulation in vents, use compressed air.
- **Software Updates:** Regularly update your operating system, drivers, and BIOS/UEFI firmware to ensure optimal performance and security. Visit the official Intel support website for the latest updates.
- **Environmental Conditions:** Operate the NUC within recommended temperature and humidity ranges. Avoid direct sunlight and heat sources.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power adapter not connected; power outlet issue; faulty power adapter.	Ensure power adapter is securely connected to NUC and outlet. Test outlet with another device. Try a different compatible power adapter if available.
No display	Monitor not connected; incorrect input source on monitor; faulty display cable; RAM not properly seated.	Check display cable connection. Select correct input source on monitor. Try a different display cable or monitor. Re-seat RAM modules.
Operating System not booting	Incorrect boot order; corrupted OS; M.2 SSD not detected.	Enter BIOS/UEFI (F2) to check boot order and ensure M.2 SSD is detected. Reinstall OS if corrupted.
USB devices not recognized	Driver issue; faulty USB port; device compatibility.	Install latest USB drivers. Try a different USB port. Test device on another computer.

8. SPECIFICATIONS

Key specifications for the Intel NUC 11 Essential NUC11ATKPE:

- **Processor:** Intel Pentium Silver N6005 (4 Cores, up to 3.30 GHz)
- **Graphics:** Integrated Intel Graphics
- **Memory:** DDR4-2933 1.2V SO-DIMM, Max 32 GB (2 SO-DIMM slots)
- **Storage:** 1x M.2 Card slot (storage), Optional 64GB eMMC
- **Connectivity:**
 - USB Ports: 2x Front USB 3.2 Gen 1, 2x Rear USB 3.2 Gen 2, 2x USB 2.0
 - Video Output: DP++ / HDMI (supports up to 2 displays)
 - Network: Ethernet, Wireless (if module installed)
- **Operating Systems Supported:** Windows 11, Windows 10, Linux
- **Power:** 19VDC Input, 15W TDP

- **Dimensions:** Approximately 7 x 7 x 4 inches (Package Dimensions)
- **Weight:** Approximately 3 pounds

9. WARRANTY AND SUPPORT

This Intel NUC product is covered by Intel's standard limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included in your package or visit the official Intel support website.

For technical support, driver downloads, and troubleshooting resources, please visit the Intel Support website:

[Intel NUC Support](#)

When contacting support, please have your product model (NUC11ATKPE) and serial number ready.

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