



Intel NUC Kit User Guide

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Intel® NUC Kit NUC11PAKi7
Intel® NUC Kit NUC11PAKi5
Intel® NUC Kit NUC11PAKi3
User Guide

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Introduction

This User Guide provides step-by-step installation instructions for these products:

- Intel® NUC Kit NUC11PAKi7
- Intel® NUC Kit NUC11PAKi5
- Intel® NUC Kit NUC11PAKi3

Before You Begin



CAUTIONS

The steps in this guide assume you're familiar with computer terminology and with the safety practices and regulatory compliance required for using and modifying computer equipment.

Disconnect the computer from its power source and from any network before performing any of the steps described in this guide.

Failure to disconnect power, telecommunications links, or networks before you open the computer or perform any procedures can result in personal injury or equipment damage. Some circuitry on the board can continue to operate even though the front panel power button is off.

Follow these guidelines before you begin:

- Always follow the steps in each procedure in the correct order.
- Create a log to record information about your computers, such as model, serial numbers, installed options, and configuration information.
- Electrostatic discharge (ESD) can damage components. Perform the procedures described in this chapter only at an ESD workstation using an antistatic wrist strap and a conductive foam pad. If such a station isn't available, you can provide some ESD protection by wearing an antistatic wrist strap and attaching it to a metal part of the computer chassis.

Installation Precautions

When you install and test the Intel NUC, observe all warnings and cautions in the installation instructions.

To avoid injury, be careful of:

- Sharp pins on connectors
- Sharp pins on circuit boards
- Rough edges and sharp corners on the chassis
- Hot components (such as SSDs, processors, voltage regulators, and heat sinks)
- Damage to wires that could cause a short circuit

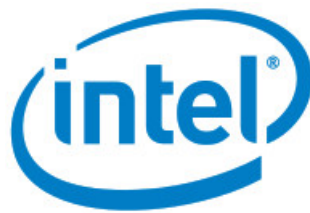
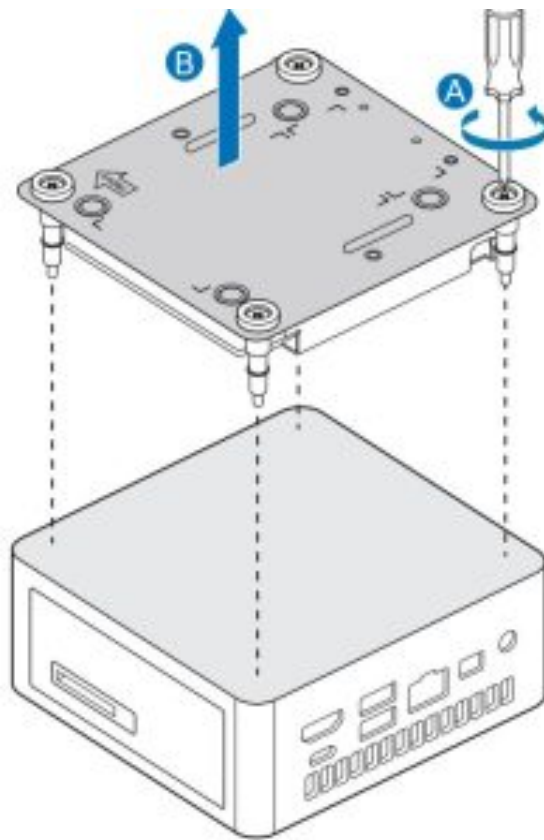
Observe all warnings and cautions that instruct you to refer computer servicing to qualified technical personnel.

Observe Safety and Regulatory Requirements

If you don't follow these instructions, you increase your safety risk and the possibility of noncompliance with regional laws and regulations.

Open the Chassis

Unscrew the four corner screws on the bottom of the chassis and lift the cover.



Install and Remove System Memory

Intel NUC Kits NUC11PAKi7, NUC11PAKi5, and NUC11PAKi3 have two 260-pin DDR4 SO-DIMM memory slots. Memory requirements:

- 1.2V low voltage memory
- 3200 MHz SO-DIMMs
- Non-ECC

Find compatible system memory modules at the [Intel® Product Compatibility Tool](#):

- NUC11PAKi7
- NUC11PAKi3
- NUC11PAKi3

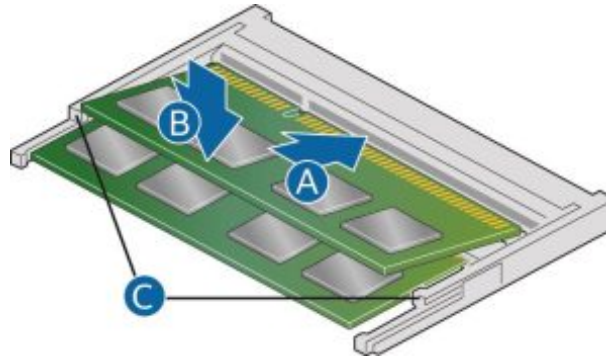
Install SO-DIMMs

NOTE: If you plan to install only one memory module, install it in the lower memory socket.

To install the SO-DIMMs, follow these steps:

1. Observe the precautions in “Before You Begin” in Section 1.1.

2. Turn off all peripheral devices connected to the computer. Turn off the computer and disconnect the AC power cord.



3. Align the small notch at the bottom edge of the SO-DIMM with the key in the socket.
4. Insert the bottom edge of the SO-DIMM into the socket.
5. When the SO-DIMM is inserted, push down on the outer edge of the SO-DIMM until the retaining clips snap into place. Make sure the clips are firmly in place.

Remove SO-DIMMs

To remove a SO-DIMM, follow these steps:

1. Observe the precautions in “Before You Begin” in Section 1.1.
2. Turn off all peripheral devices connected to the computer. Turn off the computer.
3. Remove the AC power cord from the computer.
4. Remove the computer’s cover.
5. Gently spread the retaining clips at each end of the SO-DIMM socket. The SO-DIMM pops out of the socket.
6. Hold the SO-DIMM by the edges, lift it away from the socket, and store it in an anti-static package.
7. Reinstall and reconnect any parts you removed or disconnected to reach the SO-DIMM sockets.
8. Replace the computer’s cover and reconnect the AC power cord.

Install an M.2 SSD or Intel® Optane™ Memory Module

Intel NUC Kits NUC11PAKi7, NUC11PAKi5, and NUC11PAKi3 support 80mm and 42mm SSDs. Find compatible M.2 SSDs at the [Intel® Product Compatibility Tool](#):

- NUC11PAKi7
- NUC11PAKi3
- NUC11PAKi3

If you’re installing an 80mm M.2 SSD:

1. Remove the small silver screw from the 80mm metal standoff on the motherboard (A).
2. Align the small notch at the bottom edge of the M.2 card with the key in the connector.
3. Insert the bottom edge of the M.2 card into the connector (B).
4. Secure the card to the standoff with the small silver screw (C).



Intel® Optane™ Memory Module installation and integration instructions are available by this link

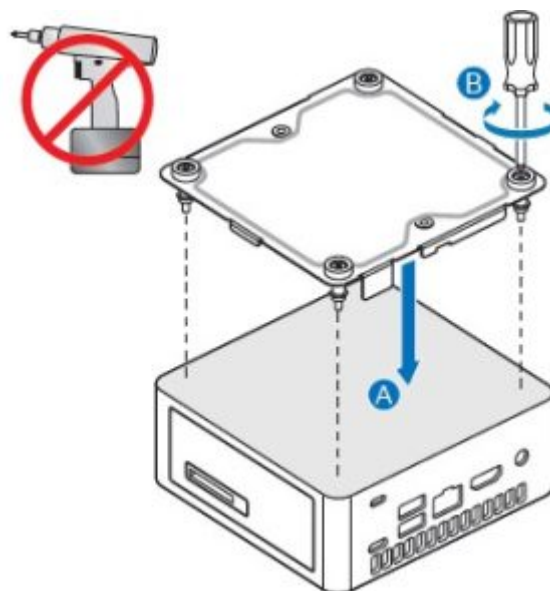
If you're installing a 42mm M.2 SSD:

1. Remove the small silver screw from the metal standoff on the motherboard (A).
2. Move the standoff (B) from the 80mm position to the 42mm position (C).
3. Align the small notch at the bottom edge of the M.2 card with the key in the connector.
4. Insert the bottom edge of the M.2 card into the connector (D).
5. Secure the card to the standoff with the small silver screw (E).



Close the Chassis

After all components have been installed, close the Intel NUC chassis. Intel recommends this be done by hand with a screwdriver to avoid over-tightening and possibly damaging the screws.

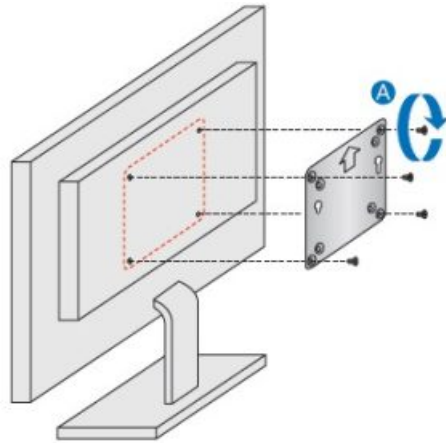


Use the VESA Bracket (Optional)

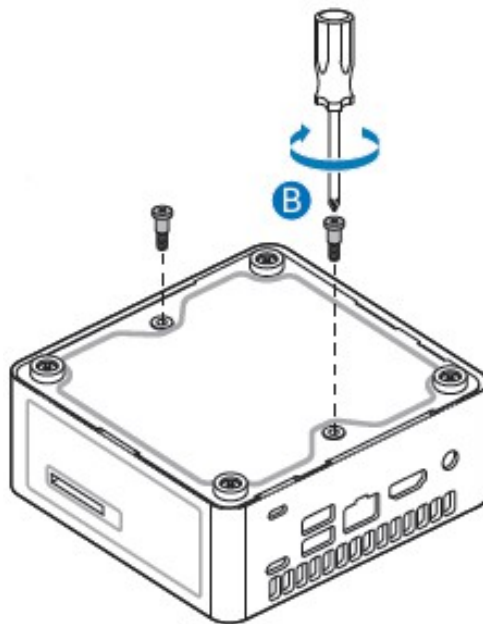
Follow these instructions to attach and use the VESA Mount bracket:

1. Using the four small black screws that were included in the box, attach the VESA bracket to the back of the

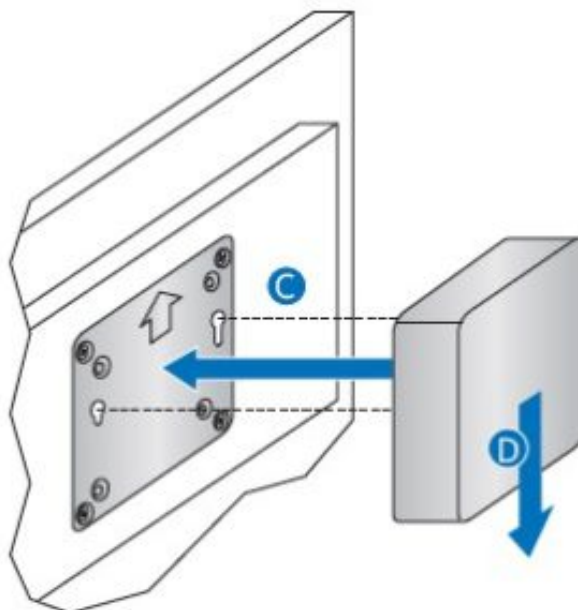
monitor or TV.



2. Attach the two slightly larger black screws to the bottom chassis cover of the Intel NUC.



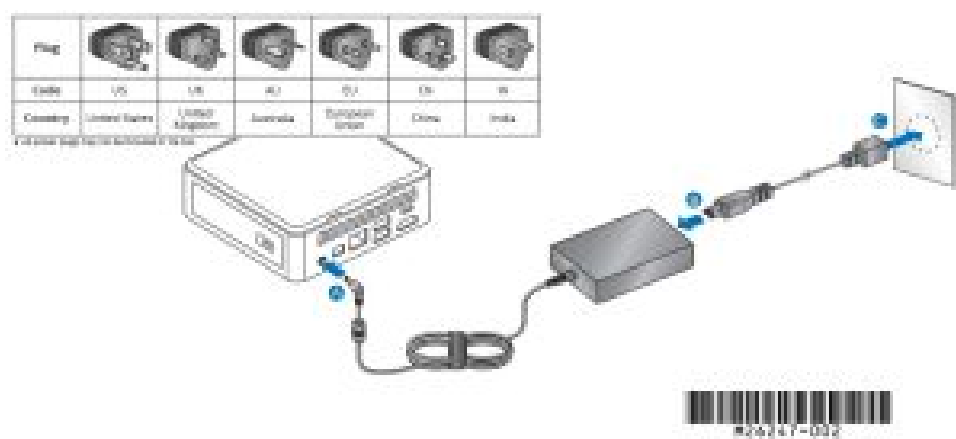
3. Slide the Intel NUC onto the VESA mount bracket.



Connect Power

Country-specific power plug attachments are included in the box.

1. Connect AC power.



Each Intel NUC model includes either a region-specific AC power cord or no AC power cord (only the power adapter).

Product codes	Power cord type
RNUC11PAQi70QA0 RNUC11PAQi50WA0 RNUC11PAQi30WA0 RNUC11PAQi7000 RNUC11PAHi7000 RNUC11PAQi5000 RNUC11PAHi5000 RNUC11PAKi5000 RNUC11PAHi3000 RNUC11PAKi3000	<div>No power cord included. An AC power cord needs to be purchased separately. Power cords are available at many Internet sites for use in multiple countries. The connector on the power adapter is a C5 type connector.</div> <div></div>
RNUC11PAQi70QA1	

RNUC11PAQi50WA1 RNUC11PAQi30WA1 RNUC11PAQi70001 RNUC11PAHi70001 RNUC11PAKi70001 RNUC11PAQi50001 RNUC11PAHi50001 RNUC11PAKi50001 RNUC11PAHi30001 RNUC11PAKi30001	US power cord included.
RNUC11PAQi70QA2 RNUC11PAQi50WA2 RNUC11PAQi30WA2 RNUC11PAQi70002 RNUC11PAHi70002 RNUC11PAKi70002 RNUC11PAQi50002 RNUC11PAHi50002 RNUC11PAKi50002 RNUC11PAHi30002 RNUC11PAKi30002	EU power cord included.
RNUC11PAQi70QA3 RNUC11PAQi50WA3 RNUC11PAQi30WA3 RNUC11PAHi70003 RNUC11PAHi50003 RNUC11PAKi50003 RNUC11PAHi30003 RNUC11PAKi30006	UK power cord included.
RNUC11PAQi70QA4 RNUC11PAQi50WA4 RNUC11PAQi30WA4 RNUC11PAHi70004 RNUC11PAHi50004 RNUC11PAKi50004 RNUC11PAHi30004 RNUC11PAKi30004	Australia/New Zealand power cord included.
RNUC11PAHi70005 RNUC11PAHi50005	India power cord included.
RNUC11PAHi30005	
RNUC11PAQi70QA6 RNUC11PAQi50WA6 RNUC11PAQi30WA6 RNUC11PAHi70006 RNUC11PAHi50006 RNUC11PAKi50006 RNUC11PAHi30006 RNUC11PAKi30006	China power cord included.

Install an Operating System

See Supported Operating Systems for a list of Intel-validated Windows* operating systems.

The Intel Product Compatibility Tool lists versions of Linux* that have been reported as compatible by Intel NUC owners. If you need assistance with Linux on your Intel NUC, check the distribution's website and forums for peer assistance.

Refer to Operating System Installation for system requirements and installation steps.

Install the Latest Device Drivers and Software

Here are the options for keeping device drivers current:

- Allow the Intel® Driver & Support Assistant (Intel® DSA) to detect out-of-date drivers
- Manually download drivers, BIOS, and software from Download Center:
 - NUC11PAKi7
 - NUC11PAKi5
 - NUC11PAKi3

The following device drivers and software are available.

- Intel® Chipset Device Software
- Intel® HD Graphics
- Intel® Management Engine
- Intel® Gigabit Ethernet
- Intel® Wireless
- Intel® Bluetooth
- Intel® USB 3.0 (needed for Windows 7* only)
- Intel® Serial IO
- Realtek* High Definition Audio
- ITE Tech* Consumer Infrared
- Intel® Rapid Storage Technology
- Intel® Software Guard Extensions

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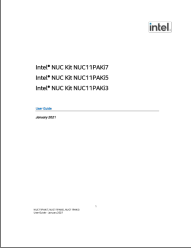
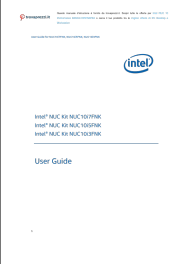
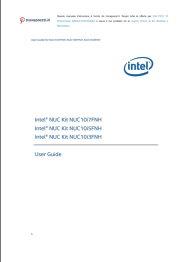
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Revision History

Date	Revision	Description
January 2021	1.0	Initial release.

NUC11PAKi7, NUC11PAKi5, NUC11PAKi3
User Guide – January 2021

Documents / Resources

	<p>Intel Intel NUC Kit [pdf] User Guide Intel, NUC, Kit, NUC11PAKi7, NUC11PAKi5, NUC11PAKi3</p>
	<p>Intel Intel NUC Kit [pdf] User Manual Intel, Intel NUC Kit NUC10i7FNK, Intel NUC Kit NUC10i5FNK, Intel NUC Kit NUC10i3FNK</p>
	<p>Intel Intel NUC Kit [pdf] User Guide Intel NUC Kit NUC10i7FNH, Intel NUC Kit NUC10i5FNH, Intel NUC Kit NUC10i3FNH</p>