



Intel® NUC 11 Pro Kit NUC11TNHi3
Intel® NUC 11 Pro Kit NUC11TNHi5
Intel® NUC 11 Pro Kit NUC11TNHv5
Intel® NUC 11 Pro Kit NUC11TNHi7
Intel® NUC 11 Pro Kit NUC11TNHv7
Intel® NUC 11 Pro Kit NUC11TNHi30Z
Intel® NUC 11 Pro Kit NUC11TNHi50Z
Intel® NUC 11 Pro Kit NUC11TNHi70Z
Intel® NUC 11 Pro Kit NUC11TNHi30L
Intel® NUC 11 Pro Kit NUC11TNHi30L
Intel® NUC 11 Pro Kit NUC11TNHi50L
Intel® NUC 11 Pro Kit NUC11TNHv50L
Intel® NUC 11 Pro Kit NUC11TNHv70L
Intel® NUC 11 Pro Kit NUC11TNHv70L

**User Guide** 

November 2021



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# **Revision History**

Date	Revision	Description
November 2021	3.0	Added 3 new "Z" models.
January 2021	2.0	Minor corrections.
January 2021	1.0	Initial release.



### 1.0 Introduction

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

- Intel® NUC 11 Pro Kit NUC11TNHi3
- Intel® NUC 11 Pro Kit NUC11TNHi5
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- Intel® NUC 11 Pro Kit NUC11TNHv50L
- Intel® NUC 11 Pro Kit NUC11TNHi70L
- Intel® NUC 11 Pro Kit NUC11TNHv70L

### 1.1 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 computer, 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.

#### 1.2 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.

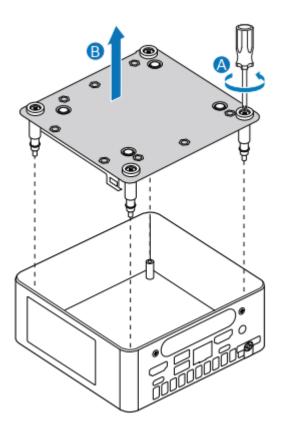
### 1.3 Observe Safety and Regulatory Requirements

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



# 2.0 Open the Chassis

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





## 3.0 Install and Remove System Memory

Intel NUC 11 Pro Kit NUC11TNH have two 260-pin DDR4 SO-DIMM memory slots

Memory requirements:

- 1.2V low voltage memory
- 2133/2400/3200 MHz SO-DIMMs
- Non-ECC

Find compatible system memory modules at the Intel® Product Compatibility Tool:

- Intel® NUC 11 Pro Kit NUC11TNHi3
- Intel® NUC 11 Pro Kit NUC11TNHi5
- Intel® NUC 11 Pro Kit NUC11TNHv5
- Intel® NUC 11 Pro Kit NUC11TNHi7
- Intel® NUC 11 Pro Kit NUC11TNHv7
- Intel® NUC 11 Pro Kit NUC11TNHi30Z
- Intel® NUC 11 Pro Kit NUC11TNHi50Z
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- Intel® NUC 11 Pro Kit NUC11TNHi50L
- Intel® NUC 11 Pro Kit NUC11TNHv50L
- Intel® NUC 11 Pro Kit NUC11TNHi70L
- Intel® NUC 11 Pro Kit NUC11TNHv70L

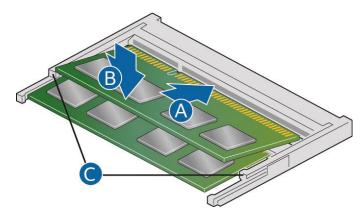
#### 3.1 Install SO-DIMMs

If you plan to install just one SO-DIMM, 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.

#### 3.2 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.



### 4.0 Install an M.2 SSD

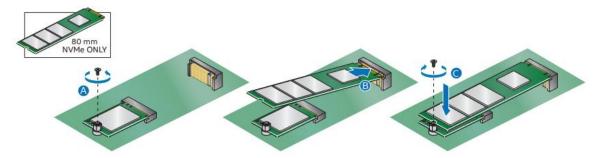
Intel® NUC 11 Pro Kit NUC11TN support 80mm and 42mm SSDs.

Find compatible M.2 SSDs at the Intel® Product Compatibility Tool:

- Intel® NUC 11 Pro Kit NUC11TNHi3
- Intel® NUC 11 Pro Kit NUC11TNHi5
- Intel® NUC 11 Pro Kit NUC11TNHv5
- Intel® NUC 11 Pro Kit NUC11TNHi7
- Intel® NUC 11 Pro Kit NUC11TNHv7
- Intel® NUC 11 Pro Kit NUC11TNHi30Z
- Intel® NUC 11 Pro Kit NUC11TNHi50Z
- Intel® NUC 11 Pro Kit NUC11TNHi70Z
- Intel® NUC 11 Pro Kit NUC11TNHi30L
- Intel® NUC 11 Pro Kit NUC11TNHi50L
- Intel® NUC 11 Pro Kit NUC11TNHv50L
- Intel® NUC 11 Pro Kit NUC11TNHi70L
- Intel® NUC 11 Pro Kit NUC11TNHv70L

#### If you're installing an 80mm M.2 SSD:

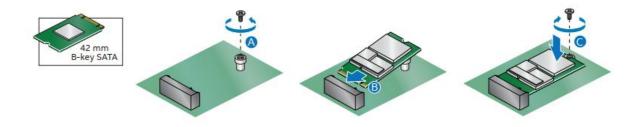
- 1. Remove the small silver screw from the 80mm metal standoff on the motherboard (A).
- 2. Align the small notch at the bottom edge of the M.2 card with the key in the connector.
- 3. Insert the bottom edge of the M.2 card into the connector (B).
- 4. Secure the card to the standoff with the small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





#### 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).



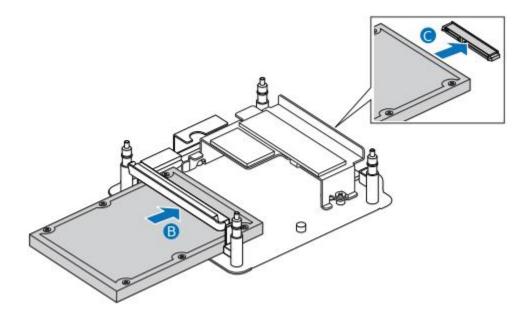


### 5.0 Install a 2.5-inch SSD or Hard Drive

Intel® NUC 11 Pro Kit NUC11TN support an additional 2.5" Solid State Drive (SSD) or Hard Disk Drive (HDD).

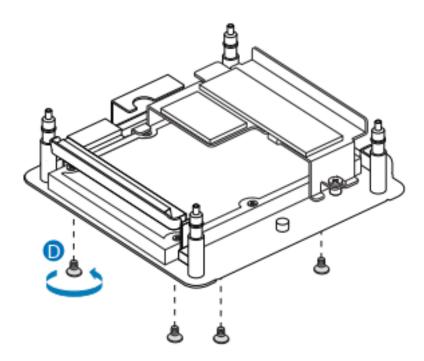
Find compatible M.2 SSDs at the Intel® Product Compatibility Tool:

- Intel® NUC 11 Pro Kit NUC11TNHi3
- Intel® NUC 11 Pro Kit NUC11TNHi5
- Intel® NUC 11 Pro Kit NUC11TNHv5
- Intel® NUC 11 Pro Kit NUC11TNHi7
- Intel® NUC 11 Pro Kit NUC11TNHv7
- Intel® NUC 11 Pro Kit NUC11TNHi30Z
- Intel® NUC 11 Pro Kit NUC11TNHi50Z
- Intel® NUC 11 Pro Kit NUC11TNHi70Z
- Intel® NUC 11 Pro Kit NUC11TNHi30L
- Intel® NUC 11 Pro Kit NUC11TNHi50L
- Intel® NUC 11 Pro Kit NUC11TNHv50L
- Intel® NUC 11 Pro Kit NUC11TNHi70L
- Intel® NUC 11 Pro Kit NUC11TNHv70L
- 1. Slide the new 2.5" drive into the drive bay, ensuring the SATA connectors are fully seated into the connectors of the SATA daughter card (A).





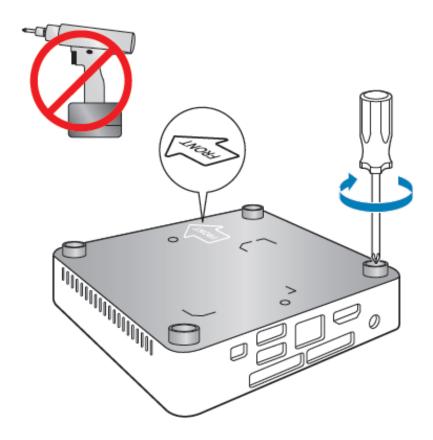
2. Secure the drive into the drive bay with the two small silver screws that were included in the box (B). Set the drive bay bracket down inside the chassis (C).





## 6.0 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.

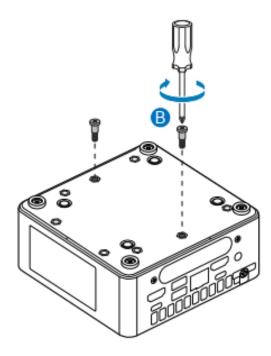




## 7.0 Use the VESA Bracket (Optional)

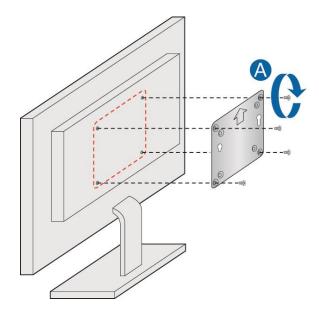
Follow these instructions to attach and use the VESA mount bracket:

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.

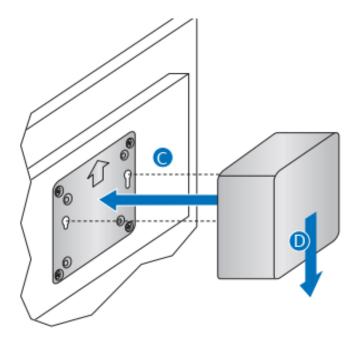


2. Attach the two slightly larger black screws to the bottom chassis cover of the Intel NUC.





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





## 8.0 Connect 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
BNUC11TNHv70000	No power cord included. An AC power cord needs to
BNUC11TNHv70L00	be purchased separately. Power cords are available at many Internet sites for use in multiple countries. The
BNUC11TNHi70000	connector on the power adapter is a C5 type connector.
BNUC11TNHi70L00	
BNUC11TNHv50000	C5 C5
BNUC11TNHv50L00	
BNUC11TNHi50000	•
BNUC11TNHi50L00	
BNUC11TNHi30000	
BNUC11TNHi30L00	
BNUC11TNHi30Z00	
BNUC11TNHi50Z00	
BNUC11TNHi70Z00	
BNUC11TNHv70001	US power cord included.
BNUC11TNHi70001	
BNUC11TNHv50001	
BNUC11TNHi50001	
BNUC11TNHi30001	
BNUC11TNHi30Z01	



	<u> </u>
BNUC11TNHi50Z01	
BNUC11TNHi70Z01	
BNUC11TNHv70002	EU power cord included.
BNUC11TNHi70002	
BNUC11TNHv50002	
BNUC11TNHi50002	
BNUC11TNHi30002	
BNUC11TNHi30Z02	
BNUC11TNHi50Z02	
BNUC11TNHi70Z02	
BNUC11TNHi70005	India power cord included.
BNUC11TNHi50005	
BNUC11TNHi30005	
BNUC11TNHc70006	China power cord included.
BNUC11TNHc50006	
BNUC11TNHi30006	
BNUC11TNHi30Z06	
BNUC11TNHi50Z06	
BNUC11TNHi70Z06	



## 9.0 Install an Operating System

See <u>Supported Operating Systems</u> for a list of Intel-validated Windows\* operating systems.

The <u>Intel Product Compatibility Tool</u> 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.



### 10.0 Install the Latest Device Drivers and Software

Here are the options for keeping device drivers current:

- Allow the <u>Intel® Driver & Support Assistant (Intel® DSA)</u> to detect out-ofdate drivers
- Manually download drivers, BIOS, and software from Download Center:
  - Intel® NUC 11 Pro Kit NUC11TNHi3
  - Intel® NUC 11 Pro Kit NUC11TNHi5
  - Intel® NUC 11 Pro Kit NUC11TNHv5
  - Intel® NUC 11 Pro Kit NUC11TNHi7
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  - Intel® NUC 11 Pro Kit NUC11TNHi30Z
  - Intel® NUC 11 Pro Kit NUC11TNHi50Z
  - Intel® NUC 11 Pro Kit NUC11TNHi70Z
  - Intel® NUC 11 Pro Kit NUC11TNHi30L
  - Intel® NUC 11 Pro Kit NUC11TNHi50L
  - Intel® NUC 11 Pro Kit NUC11TNHv50L
  - Intel® NUC 11 Pro Kit NUC11TNHi70L
  - Intel® NUC 11 Pro Kit NUC11TNHv70L