

Intel<sup>®</sup> NUC Kit NUC5i3RYH  
Intel<sup>®</sup> NUC Kit NUC5i5RYH  
User Guide

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## Before You Begin



### CAUTIONS

*The procedures in this user guide assume familiarity with the general terminology associated with personal computers and with the safety practices and regulatory compliance required for using and modifying electronic equipment.*

*Disconnect the computer from its power source and from any telecommunications link or network before performing any of the procedures 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.
- Set up 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 is not 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 do not follow these instructions, you increase your safety risk and the possibility of noncompliance with regional laws and regulations.

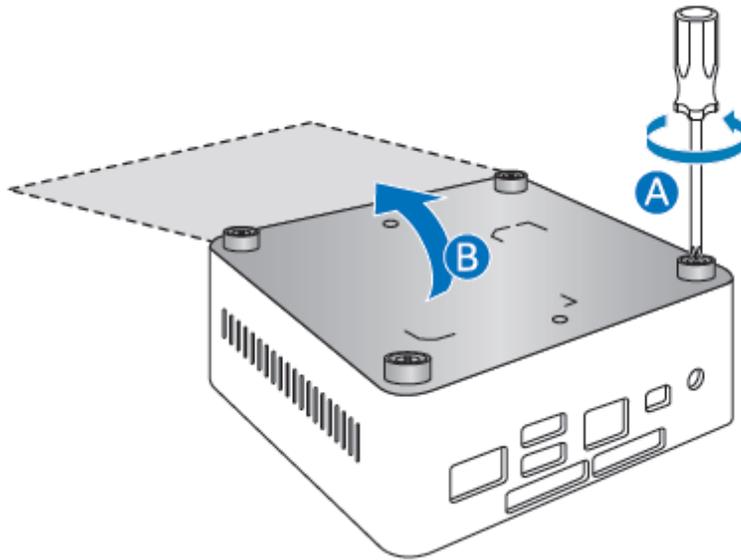
## This guide tells you how to:

- Install and remove memory
- Install an M.2 SSD
- Install a 2.5" drive
- Install a VESA mount bracket
- Install an operating system
- Install the latest drivers

## Open the Intel NUC Chassis

To open the Intel NUC chassis, follow these steps:

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



## Installing and Removing Memory

Intel NUC Kits NUC5i3RYH and NUC5i5RYH have two 204-pin DDR3L SO-DIMM sockets. Memory requirements:

- 1.35V low voltage memory
- 1333 MHz or 1600 MHz SO-DIMMs
- Non-ECC

For a list of tested memory, go to the [System Memory](#) page on the Support site:

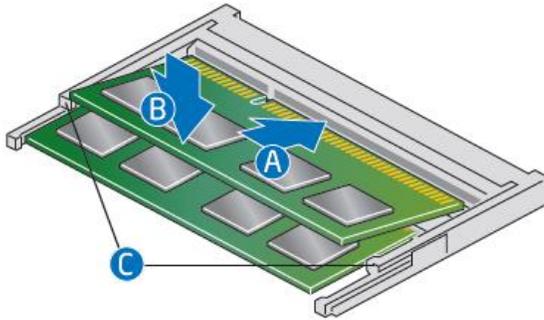
## Install SO-DIMMs

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" on page 2.

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.

## Removing SO-DIMMs

To remove a SO-DIMM, follow these steps:

1. Observe the precautions in "Before You Begin" on page 2.
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

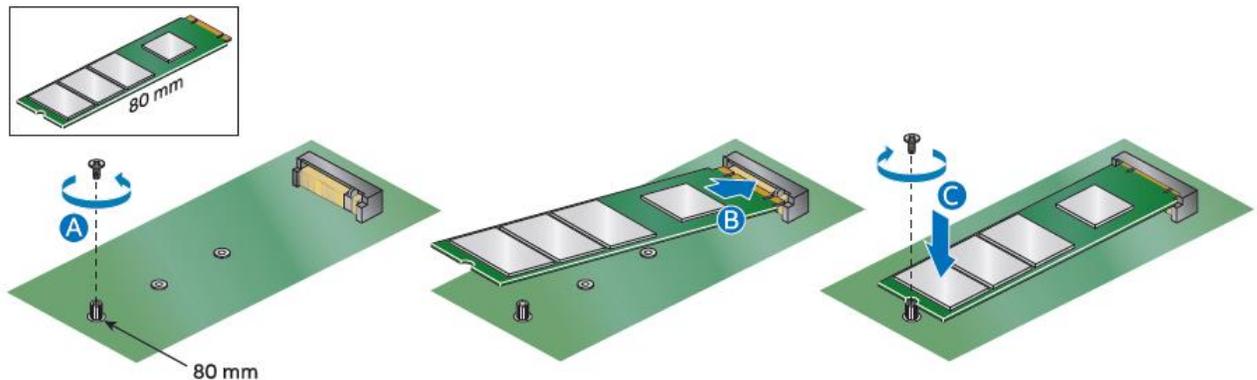
Intel NUC Kits NUC5i3RYH and NUC5i5RYH support 80mm, 60mm, and 42mm M.2 SSDs. For a list of tested M.2 SSDs, go to the [Tested Peripherals](#) page on the Support site.

Observe the precautions in "Before You Begin" on page 2.

### ***If you are installing an 80mm M.2 SSD:***

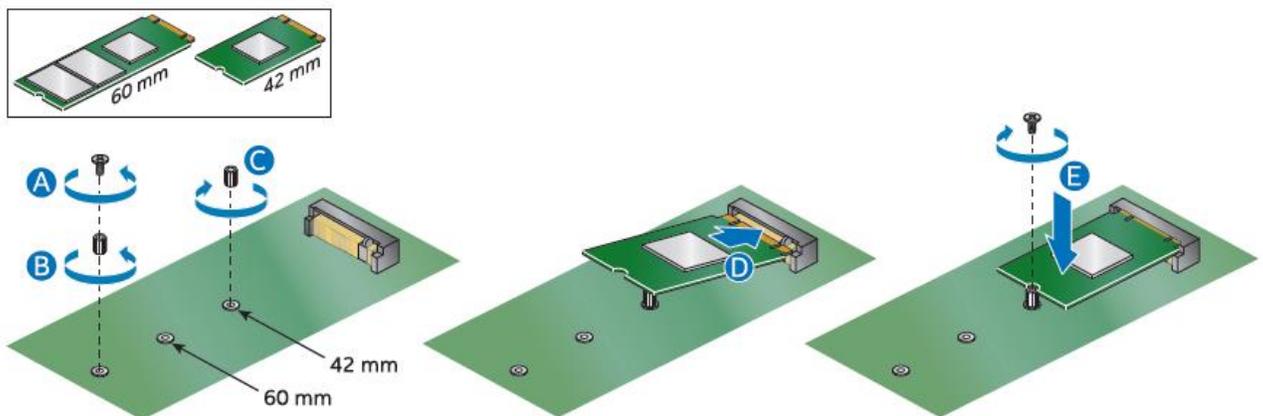
1. Remove the small silver screw from the 80mm metal standoff on the motherboard (A).
2. Align the small notch at the bottom edge of the M.2 card with the key in the connector.

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 are installing a 60mm or 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 either the 60mm or 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).



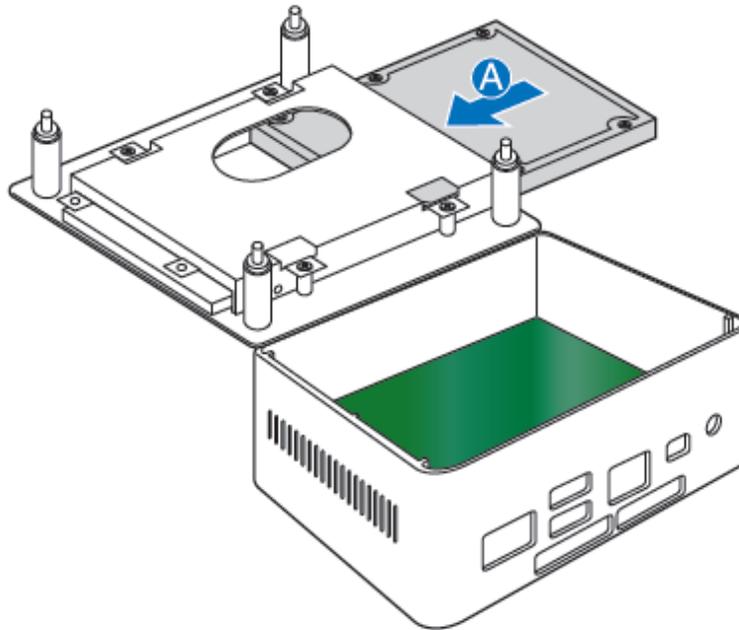
## Install a 2.5" SSD or Hard Drive

For a list of tested 2.5" hard drives, go to the [Tested Peripherals](#) page on the Support site.

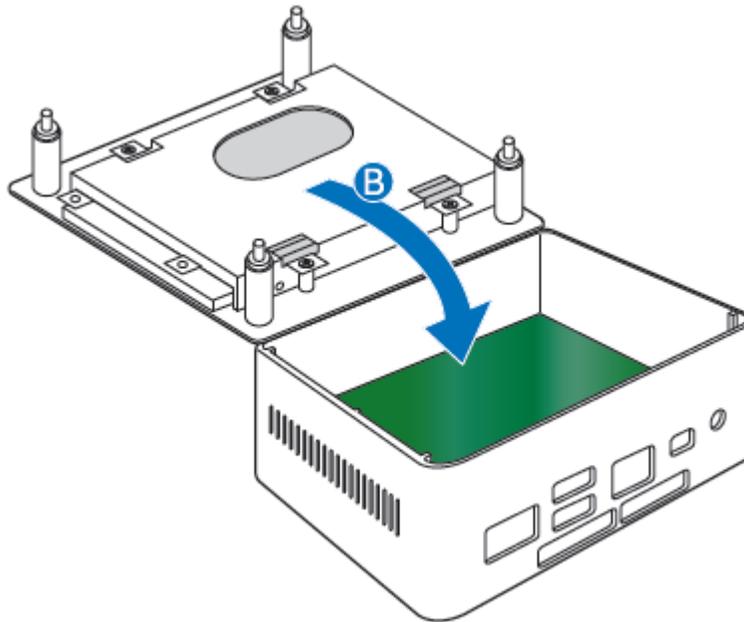
Follow these instructions to install a 2.5" Solid State Drive (SSD) or Hard Disk Drive (HDD):

1. Observe the precautions in "Before You Begin" on page 2.

- Slide the 2.5" drive into the drive bay, ensuring the SATA connectors are fully seated into the connectors of the SATA daughter card (A).



- 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), taking care not to pinch the SATA cables along the edge (D).

## Close the Chassis

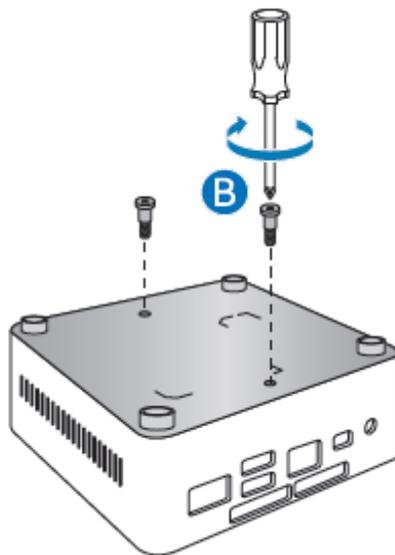
After all components have been installed, close the Intel NUC chassis. Intel recommends this be done by hand with a screwdriver to avoid over-tightening and possibly damaging the screws.



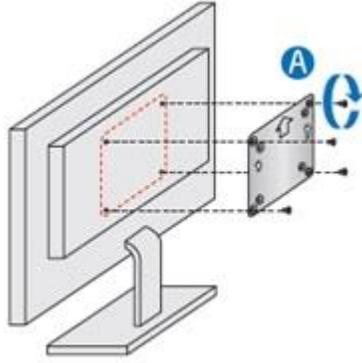
## Attach and Use the VESA Bracket (Optional)

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

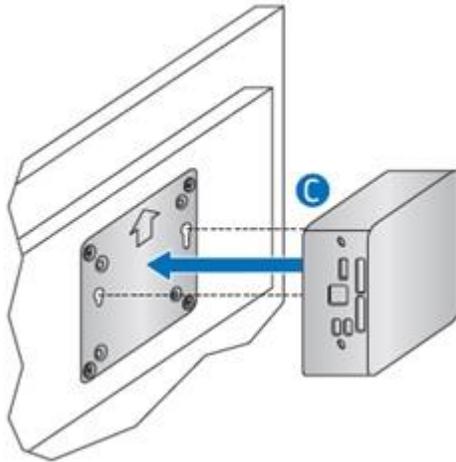
1. Using the four small black screws that were included in the box, attach the VESA bracket to the back of the monitor or TV.



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.



## Install an Operating System

Refer to [Supported Operating Systems](#) for a list of Intel-validated Windows\* operating systems, as well as versions of Linux that have been reported as compatible by Intel NUC owners.

Refer to [Operating System Installation](#) for system requirements and installation steps.

## Install Intel NUC Drivers

To download the latest Microsoft\* Windows\* drivers and BIOS updates, go to Download Center:

Links:

- [Intel® NUC Kit NUC5i3RYH](#)
- [Intel® NUC Kit NUC5i5RYH](#)

Drivers are available for the following features:

- Audio
- Bluetooth
- Chipset
- Consumer Infrared
- Graphics
- Intel® ME
- Intel® Rapid Storage Technology
- Intel® Ready Mode Technology
- LAN (wired and wireless)
- NFC
- USB 3.0