

Thunderbolt™ 3 Firmware Update Guide for Intel® NUC

May 2021



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Revision History

Date	Revision	Description
August 2018	1.0	Initial release.
January 2019	2.0	Added steps if running firmware update without connecting a Thunderbolt device.
January 2019	3.0	Updated to include NUC8i7HMK/NUC8i7HVK.
July 2019	4.0	NUC6i7KYK requires a Thunderbolt device to be connected.
June 2020	5.0	NUC6i7KYK version 0038 requirements for updating added.
May 2021	6.0	Removed NUC6i7KYK-specific information. Added links for: NUC10ixFN, NUC8vPN, NUC9ixQN & NUC9VxQN

1.0 Introduction

This document guides you on updating the Thunderbolt™ 3 firmware on Intel® NUC products.

1.1 Requirements / Before You Begin

Before you run the Thunderbolt 3 firmware update tool:

- Operating system must be Windows® 10 version 1709 (OS Build 16299.334) or later
- Install the latest **Thunderbolt Bus Driver** for your Intel NUC, available on Intel [Download Center](#)
- Download the **Thunderbolt 3 Firmware Update** package. Unzip the firmware package on the Intel NUC you plan to update. Links:
 - [Version 33 for Intel NUC8i7HNK and NUC8i7HVK](#)
 - [Version 46 for Intel NUC8ixBE and NUC7i5BN & NUC7i7BN](#)
 - [Version 27 for Intel NUC6i7KYK](#)
 - [Version 38 for Intel NUC6i7KYK](#)
 - [Version 62 for Intel NUC10ixFN](#)
 - [Version 60 for Intel NUC8vPN](#)
 - [Version 60 for Intel NUC9ixON & NUC9VxON](#)

Note

For the Intel NUC Kit NUC6i7KYK, to upgrade to Thunderbolt firmware version 46, two conditions must be met:

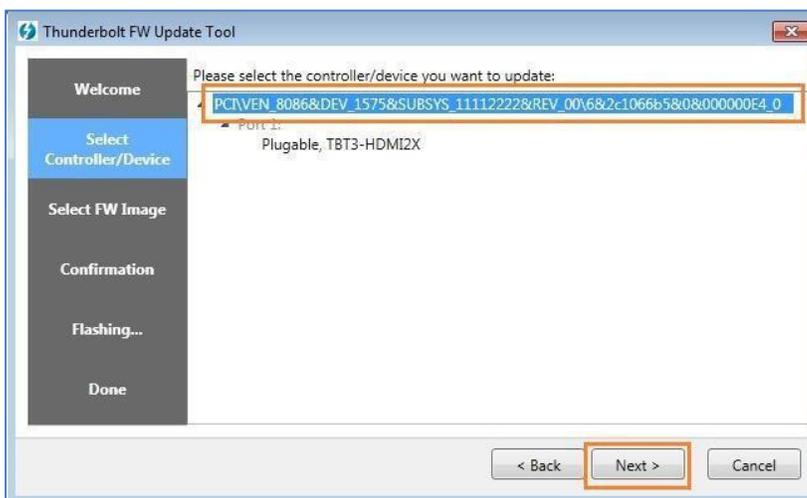
1. Your BIOS must be **0059** or higher.
2. The SA# must be, **H9075x-111** or higher.

If your NUC has SA#: **H9075x-110** or lower, you must use [Thunderbolt firmware version 27](#).

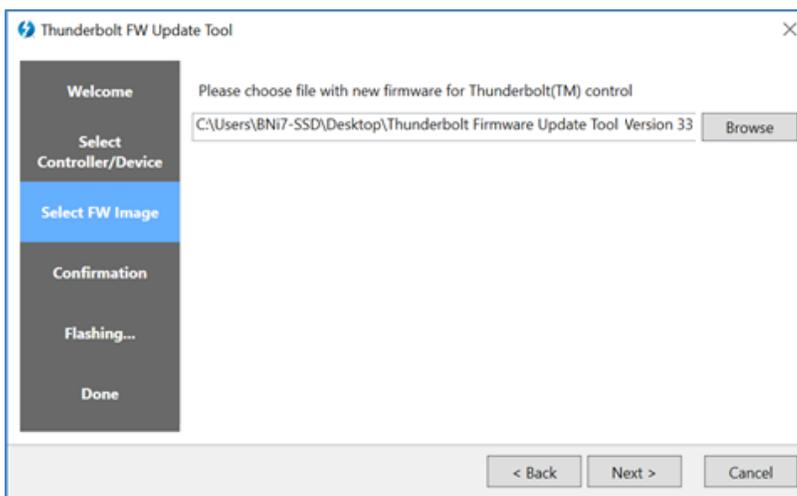
For help on how to find the SA#, see article, [Identify Your Intel NUC](#).

2.0 Update the Thunderbolt 3 Firmware

1. For the update to work correctly, you **must** connect a Thunderbolt device to the Intel® NUC.
2. Double-click **FwUpdateTool.exe** to start the program.
3. Click **Next** on the Welcome screen.
4. On the Select Controller/Device screen, choose the Thunderbolt controller from the list, then click **Next**.

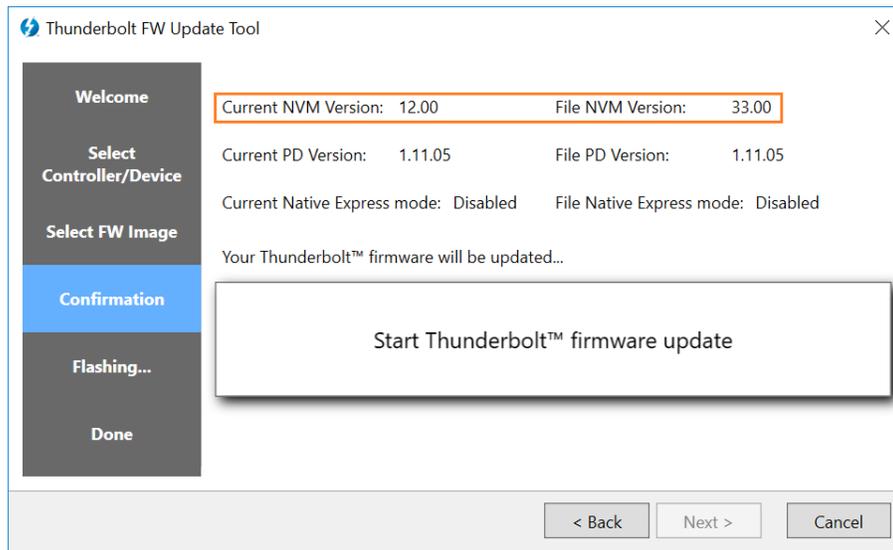


5. On the Select FW Image screen, browse to the folder where you unzipped the downloaded file, select the **.bin** file (the firmware file), and then click **Next**.



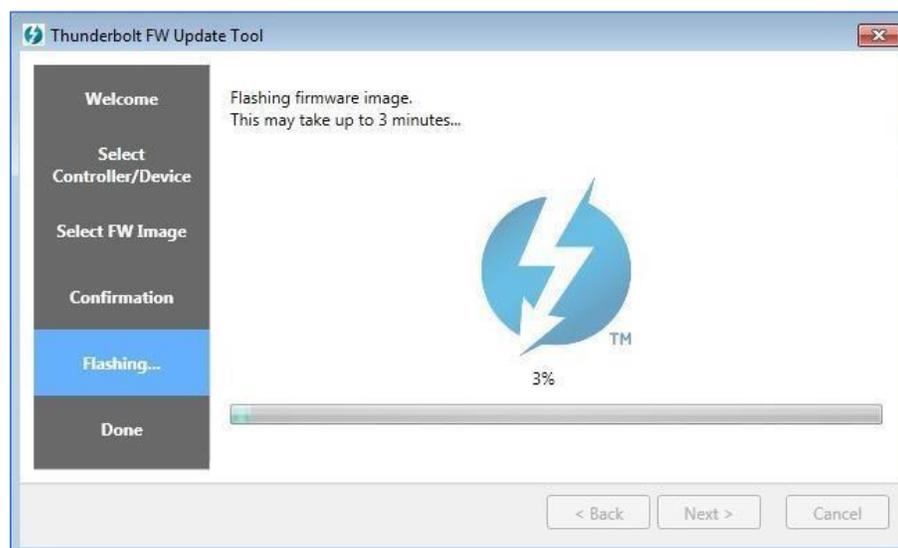
- On the Confirmation screen, check the Current NVM Version and the File NVM Version.

Note: The example, below, is showing version 33. You would expect to see different numbers depending on your device.

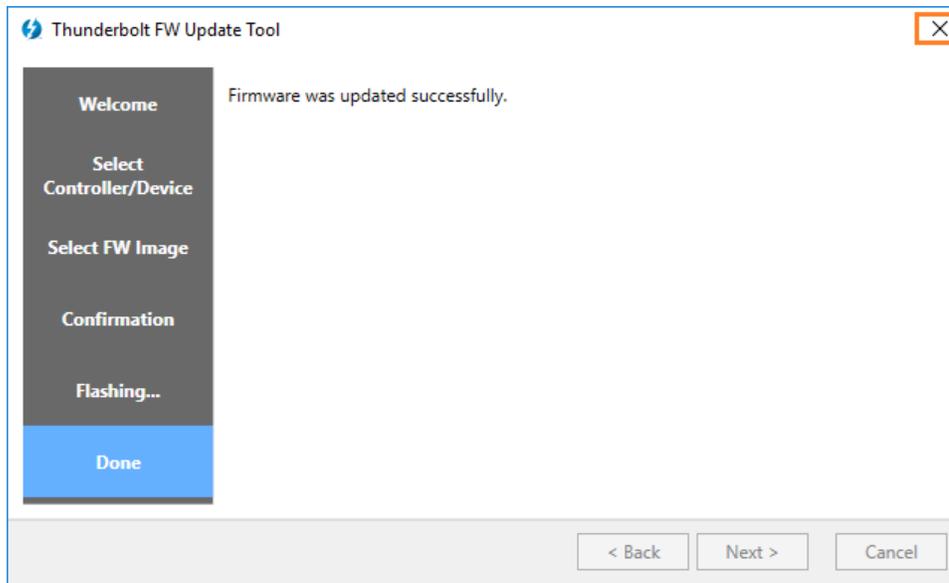


Note: If the **Current NVM Version** and **File NVM Version** are the same, the firmware doesn't need to be updated.

- Click the **Start Thunderbolt™ firmware update** button to start the update.
- A progress bar will display during the update.



9. Close the application after the firmware has been successfully updated.



Optional: To check that the firmware updated successfully:

1. Run the update tool.
2. Go to the **Confirmation** page.
3. Check the **Current NVM Version**.

Example:

