



# Thunderbolt™ 3 Firmware Update Guide

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*July 2019*



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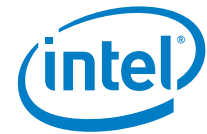
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## Revision History

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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.



## 1.0 Introduction

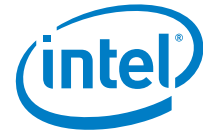
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This document guides you on updating the Thunderbolt™ 3 firmware on Intel® NUC products.

### 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 NUC Kits NUC8i7HMK and NUC8i7HVK](#)
  - [Version 33 for Intel NUC Kits NUC7i5BN and NUC7i7BN](#)
  - [Version 27 for Intel NUC Kit NUC6i7KYK](#)



## 2.0 Update the Thunderbolt 3 Firmware

1. Connect a Thunderbolt device to the Intel® NUC.
2. Double-click **FwUpdateTool.exe** to start the program.

### Note

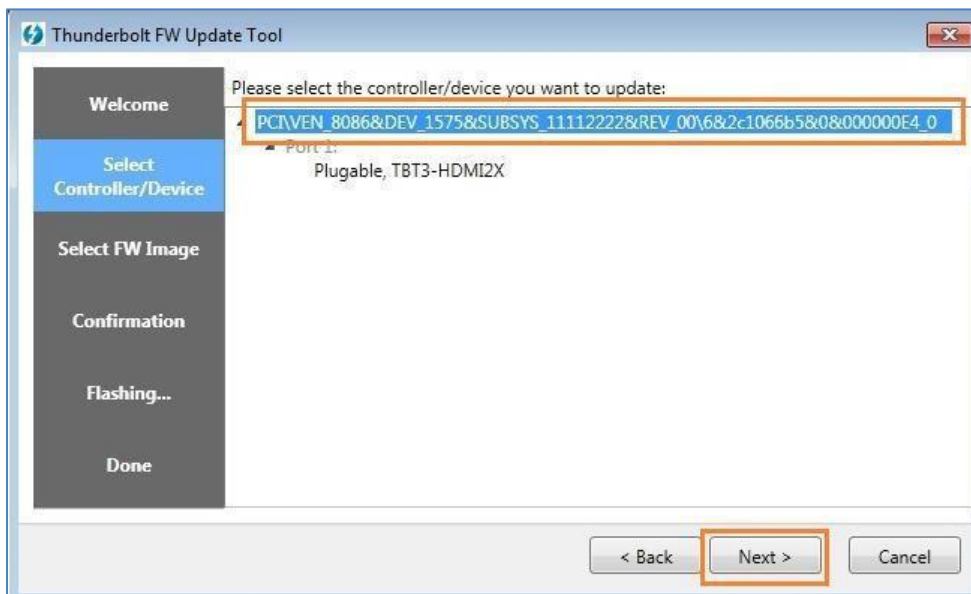
For Intel NUC Kits NUC8i7HNK, NUC8i7HVK, NUC7i5BNx, NUC7i7BNx, if you don't have a Thunderbolt device, you can still run this update tool.

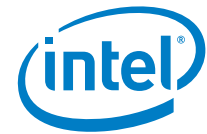
When you do, you will see a series of dialog boxes alerting you that a registry edit is required for the Update Tool to run properly. Click Yes through this series of screens.

After the registry edit is completed, restart the Intel NUC, then run the **FWUpdateTool.exe** again.

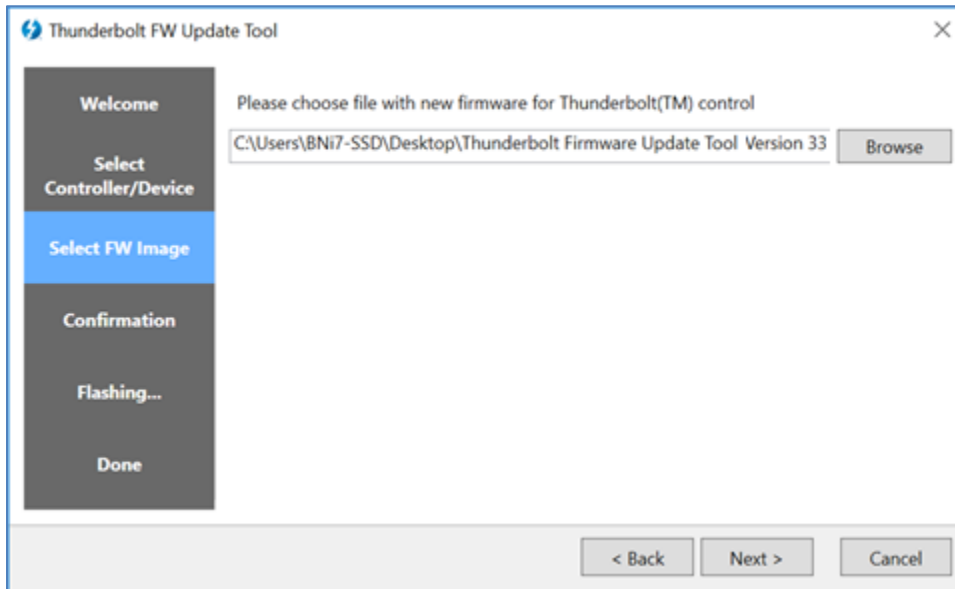
**Intel NUC Kit NUC6i7KYK requires you to connect a Thunderbolt device to update the firmware.**

3. Click **Next** on the Welcome screen.
4. On the Select Controller/Device screen, choose the Thunderbolt controller from the list, then click **Next**.



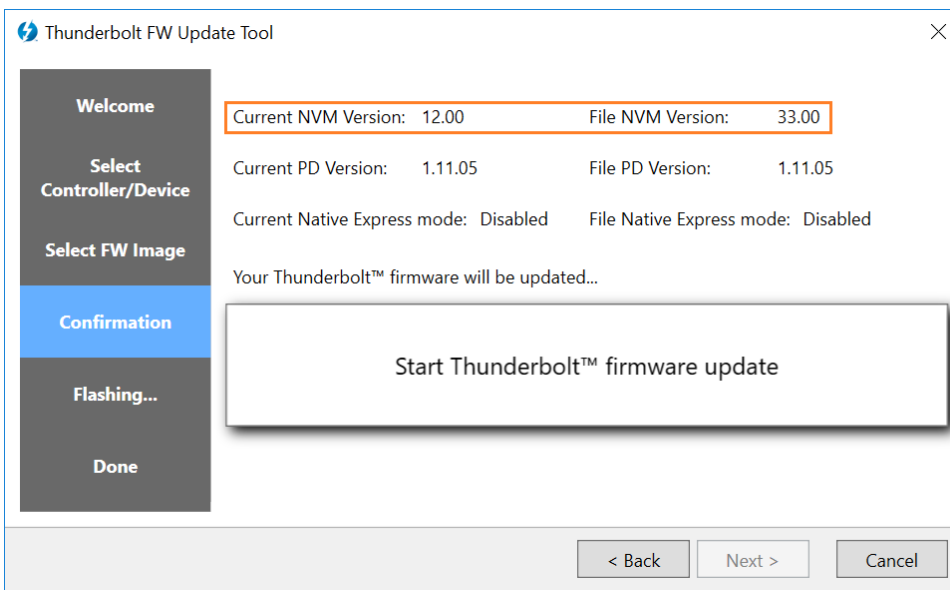


5. On the Select FW Image screen, browse to the folder where you unzipped the downloaded file, select the firmware **.bin** file, and then click **Next**.

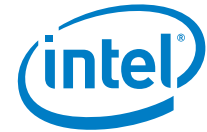


6. On the Confirmation screen, check the Current NVM Version and the File NVM Version.

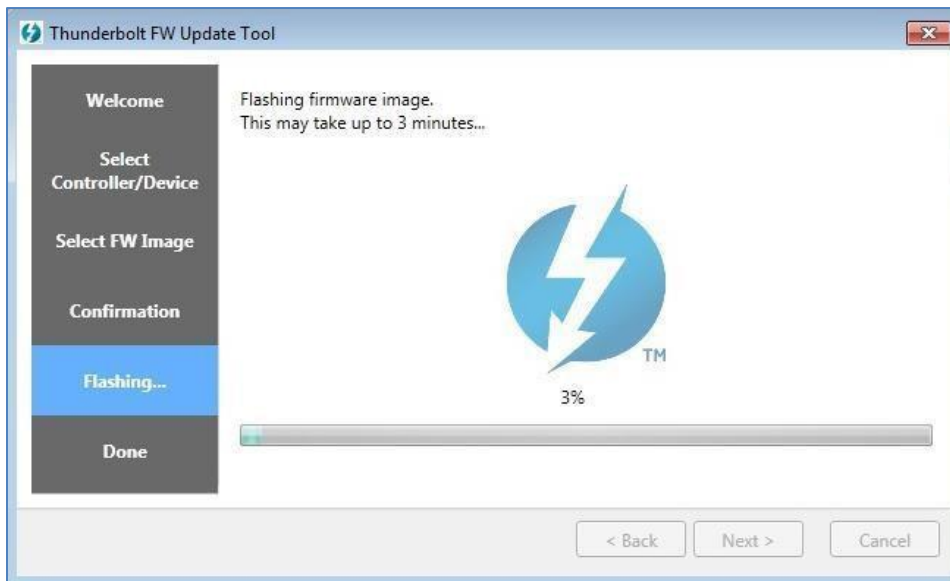
*Example showing version 33 for NUC7i5BN/NUC7i7BN. You would expect to see version 27 for NUC6i7KYK.*



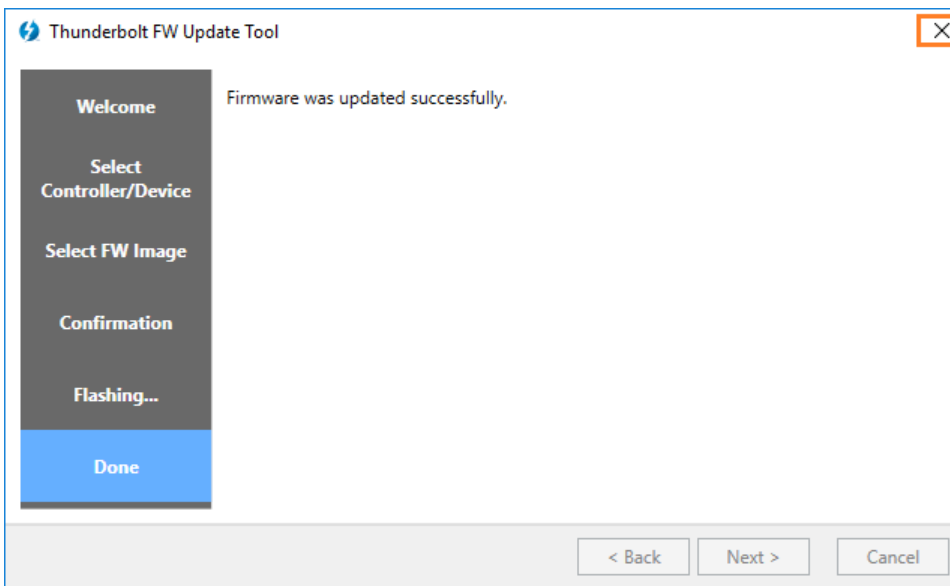
*If the **Current NVM Version** and **File NVM Version** are the same, the firmware doesn't need to be updated.*



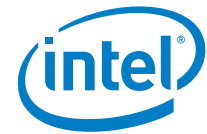
7. Click the **Start Thunderbolt™ firmware update** button to start the update.
8. A progress bar will display during the update.



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:*

