



Thunderbolt™ 3 Firmware Update Guide for Intel® Whitebook LAPQC71A & LAPQC71B

April 2020



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Revision History

Date	Revision	Description
April 2020	1.0	Initial release. FW version 0056



1.0 Introduction

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

1.1 Requirements / Before You Begin

Before you run the Thunderbolt 3 firmware update tool:

- Operating system must be Windows® 10 version 1809 or later
- Ensure you have the latest **Thunderbolt Driver** installed
- Download the **Thunderbolt 3 Firmware Update** package. Unzip the firmware package on the Intel Whitebook you plan to update
- This update will NOT work on pre-production hardware
- **The Intel® Whitebook must be connected to AC power during the update**

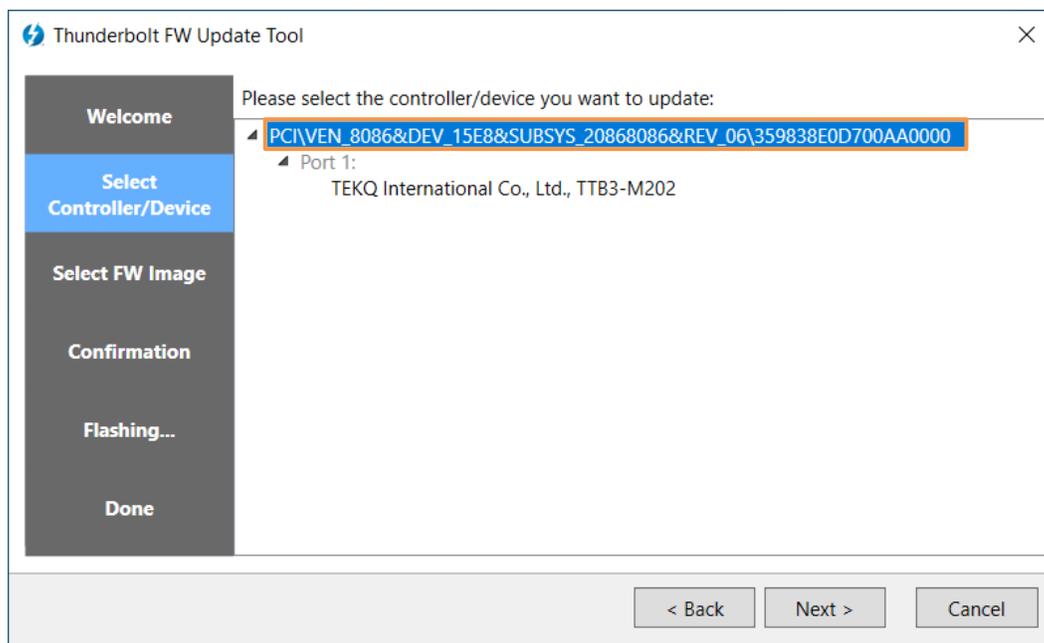


2.0 Update the Thunderbolt 3 Firmware

1. Double-click **FwUpdateTool.exe** to start the program.

NOTE: It is required to have a Thunderbolt or USB Type C device connected when running the Thunderbolt update.

2. Click **Next** on the Welcome screen.
3. On the Select Controller/Device screen, click on the Thunderbolt controller, NOT the device, then click **Next**.

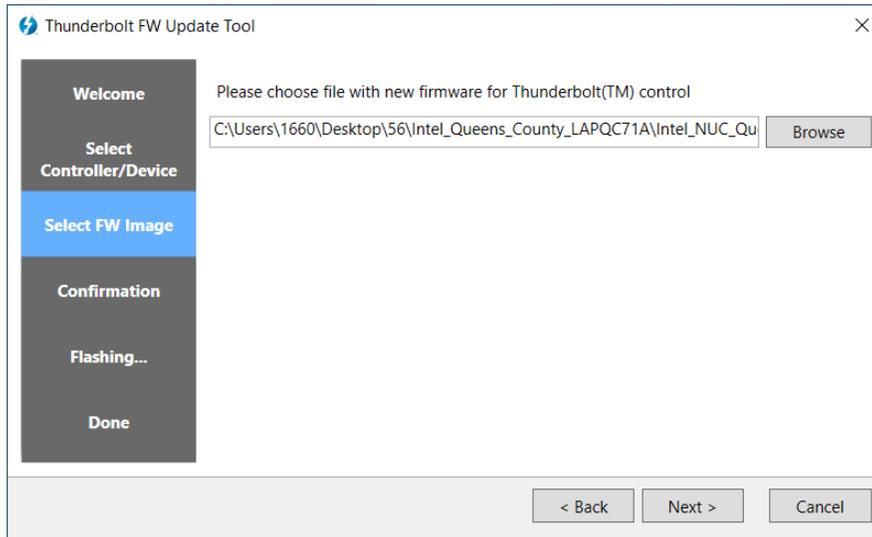




4. On the Select FW Image screen, browse to the **bin** folder where you unzipped the downloaded file. Select the **.bin** file for your device and then click **Next**.

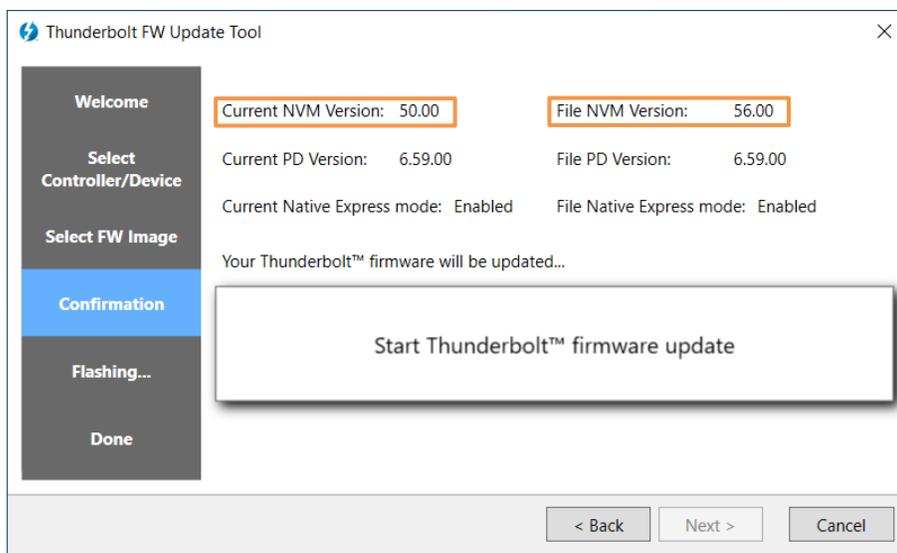
LAPQC71A = Intel_NUC_Queens_County_TR_HR_2C_C1_rev56_TI_Pro2086_SEC2_sign.bin

LAPQC71B = Intel_NUC_Queens_County_TR_HR_2C_C1_rev56_TI_Pro2087_SEC2_sign.bin



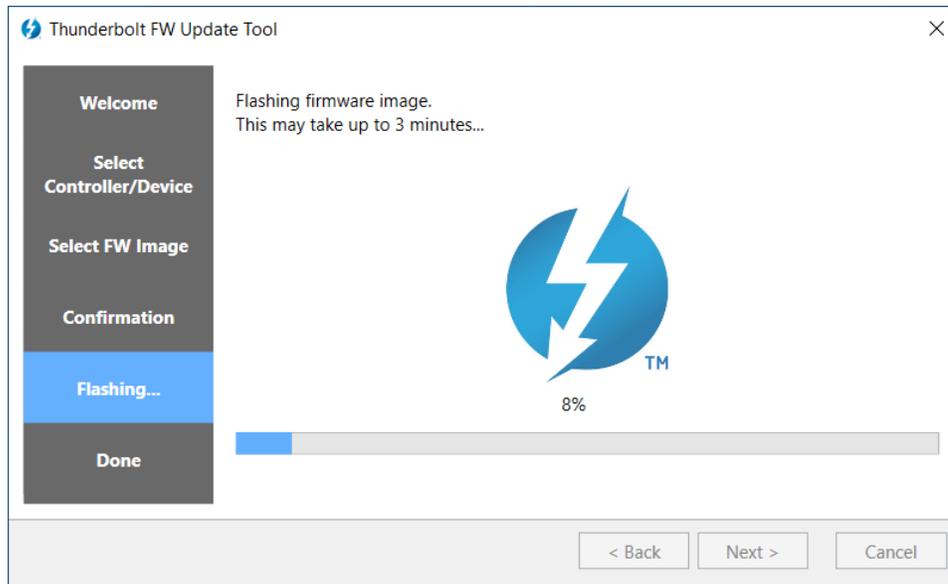
5. On the Confirmation screen, compare the **Current NVM Version** and the **File NVM Version**.

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



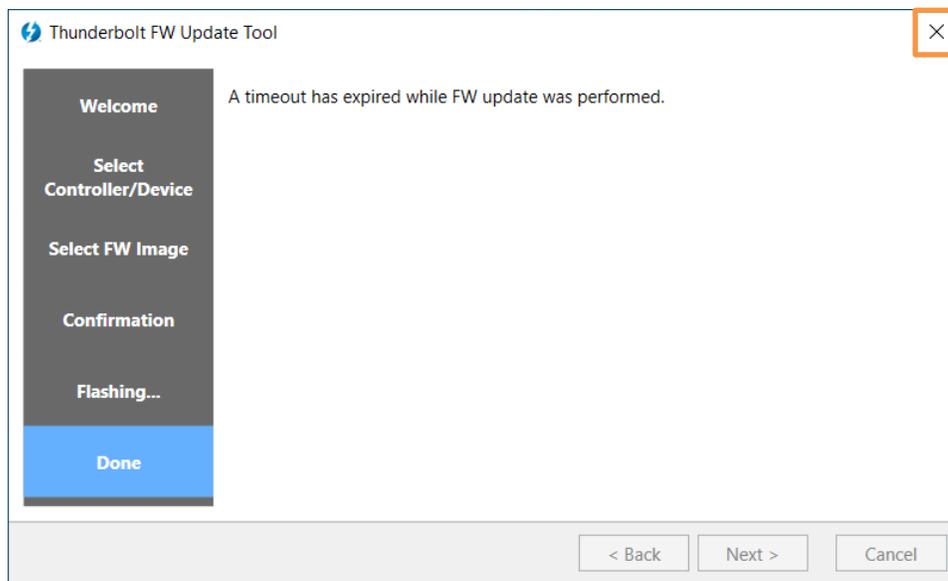


6. Click the **Start Thunderbolt™ firmware update** button to start the update.
7. A progress bar will display during the update.



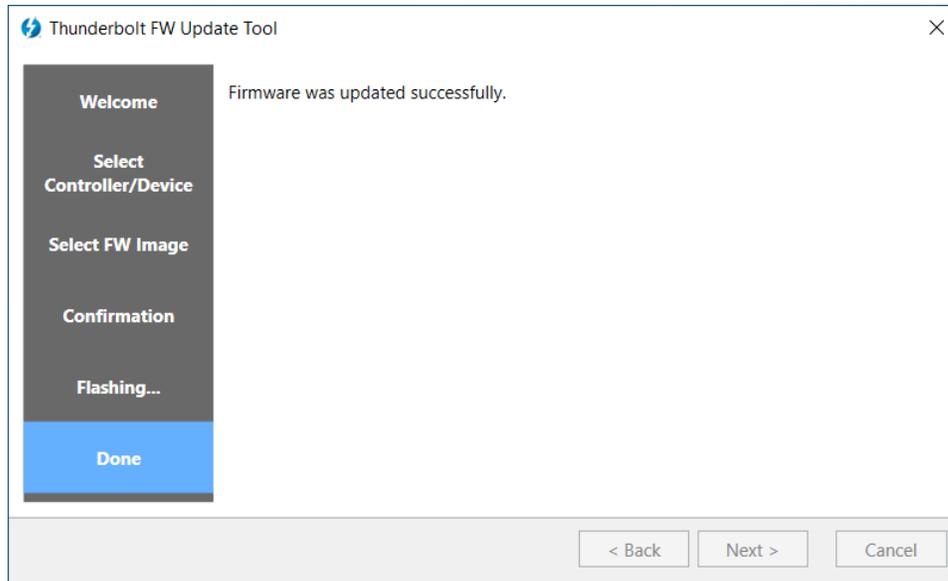
NOTE

If you don't have a Thunderbolt device attached when running the firmware update, you will get a timeout message. Please connect a Thunderbolt or USB Type C device and run the Thunderbolt update again.





8. After the firmware has been successfully updated:
 - a. Close the application
 - b. Shutdown the system
 - c. Unplug the power adapter from the system
 - d. Disconnect any Thunderbolt or Type C device
 - e. Wait 20-30 seconds
 - f. Plug the power adapter back in, restart.



Optional: To check that the firmware updated successfully:

1. Run the update tool until the **Confirmation** page.
2. Check the **Current NVM Version**.

Example:



Thunderbolt FW Update Tool

Welcome

Select Controller/Device

Select FW Image

Confirmation

Flashing...

Done

Current NVM Version: 56.00 File NVM Version: 56.00

Current PD Version: 6.59.00 File PD Version: 6.59.00

Current Native Express mode: Enabled File Native Express mode: Enabled

Your Thunderbolt™ firmware will be updated...

Start Thunderbolt™ firmware update

< Back Next > Cancel