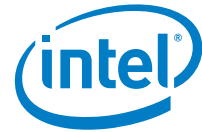




# **Thunderbolt™ 3 Firmware Update Guide for Intel® Whitebook LAPQC71A & LAPQC71B**

---

*April 2020*



You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a non-exclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein.

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications and roadmaps.

The products described may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Copies of documents which have an order number and are referenced in this document may be obtained by calling 1-800-548-4725 or by visiting: <http://www.intel.com/design/literature.htm>.

Intel and the Intel logo are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

\*Other names and brands may be claimed as the property of others.

Copyright © 2020, Intel Corporation. All rights reserved.



## Contents

---

<b>1.0</b>	<b>Introduction .....</b>	<b>5</b>
1.1	Requirements / Before You Begin.....	5
<b>2.0</b>	<b>Update the Thunderbolt 3 Firmware.....</b>	<b>6</b>



## ***Revision History***

---

<b>Date</b>	<b>Revision</b>	<b>Description</b>
April 2020	1.0	Initial release. FW version 0056



## 1.0 *Introduction*

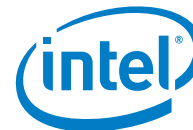
---

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



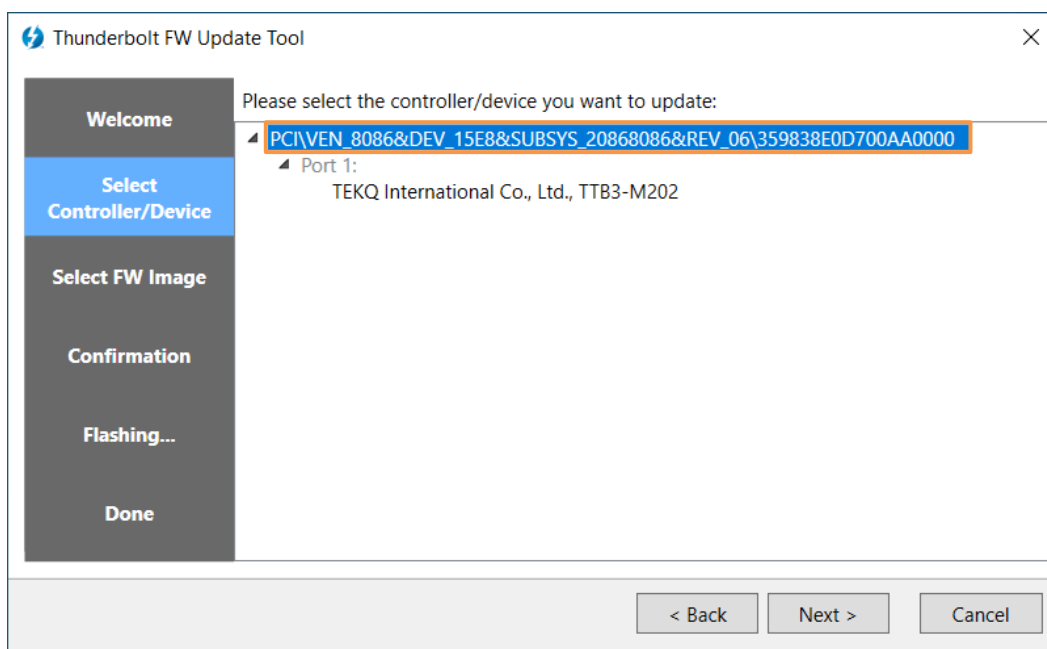
## 2.0 Update the Thunderbolt 3 Firmware

---

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**.

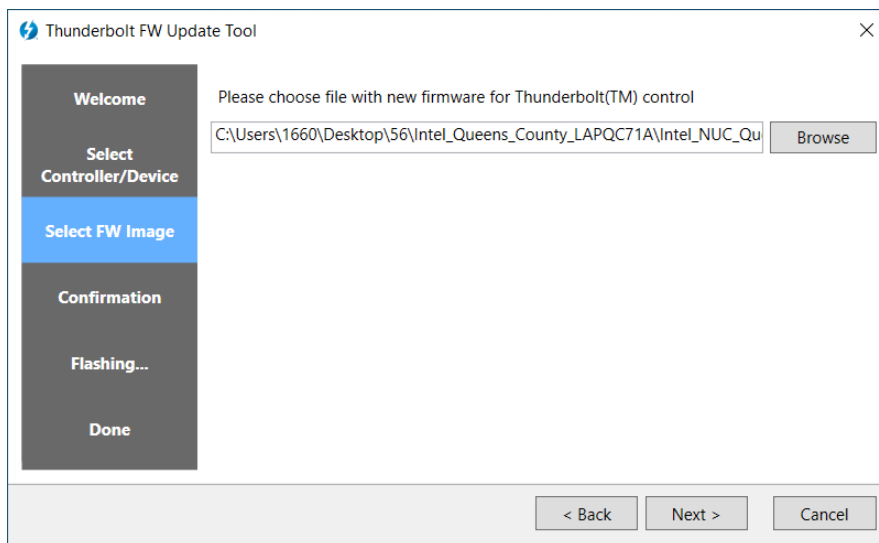




4. On the Select FW Image screen, browse to the **bin** folder where you unzipped the downloaded file. Select the **.bin** file for your device and then click **Next**.

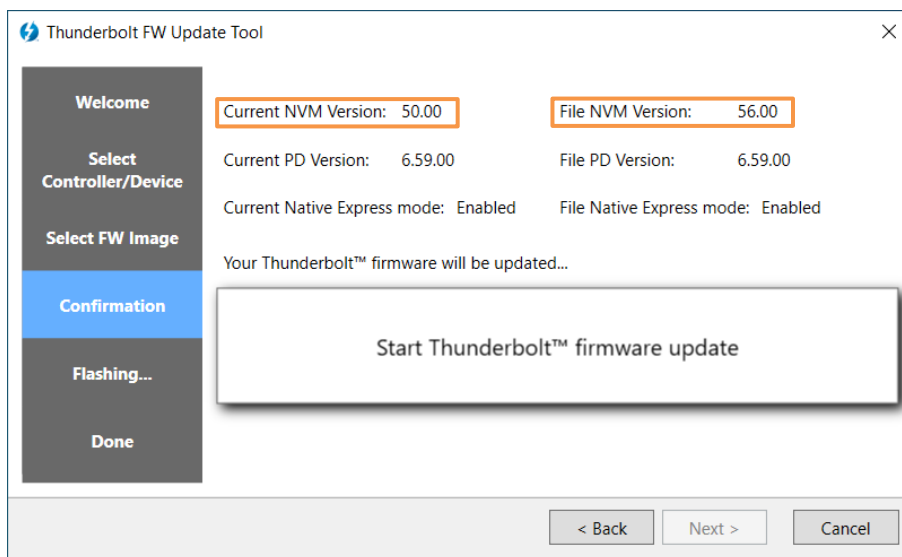
LAPQC71A = Intel\_NUC\_Queens\_County\_TR\_HR\_2C\_C1\_rev56\_TI\_Pro2086\_SEC2\_sign.bin

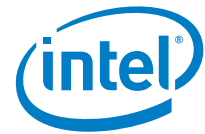
LAPQC71B = Intel\_NUC\_Queens\_County\_TR\_HR\_2C\_C1\_rev56\_TI\_Pro2087\_SEC2\_sign.bin



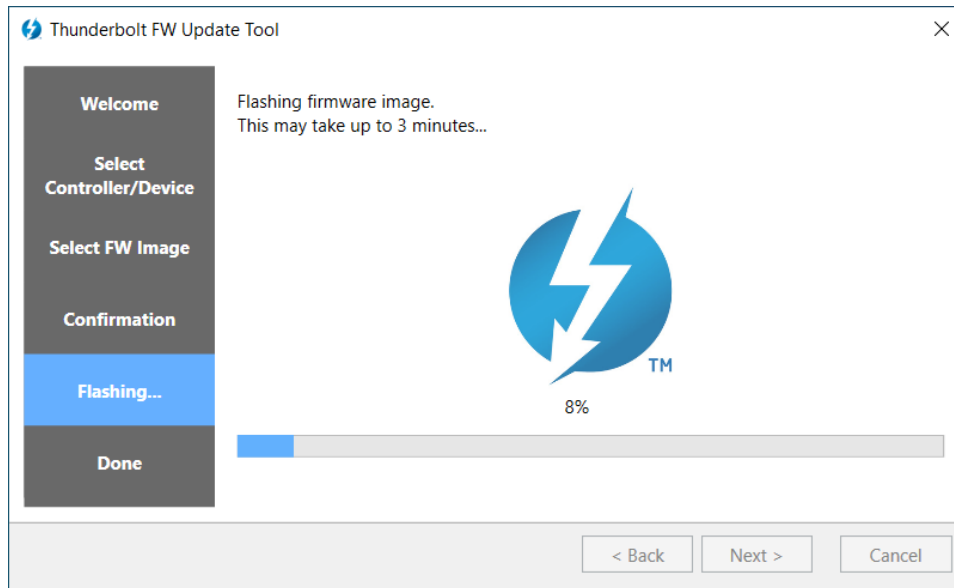
5. On the Confirmation screen, compare the **Current NVM Version** and the **File NVM Version**.

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



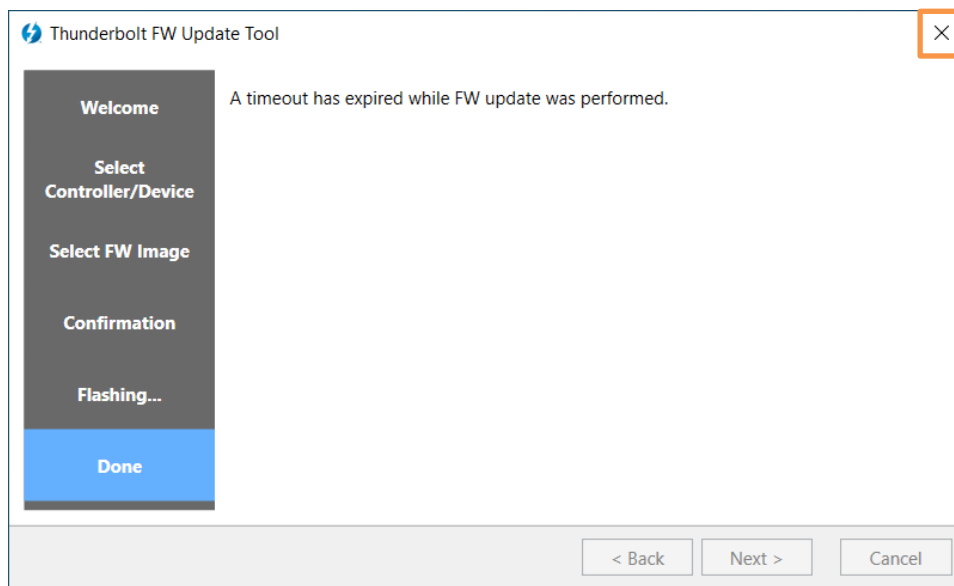


6. Click the **Start Thunderbolt™ firmware update** button to start the update.
7. A progress bar will display during the update.



#### NOTE

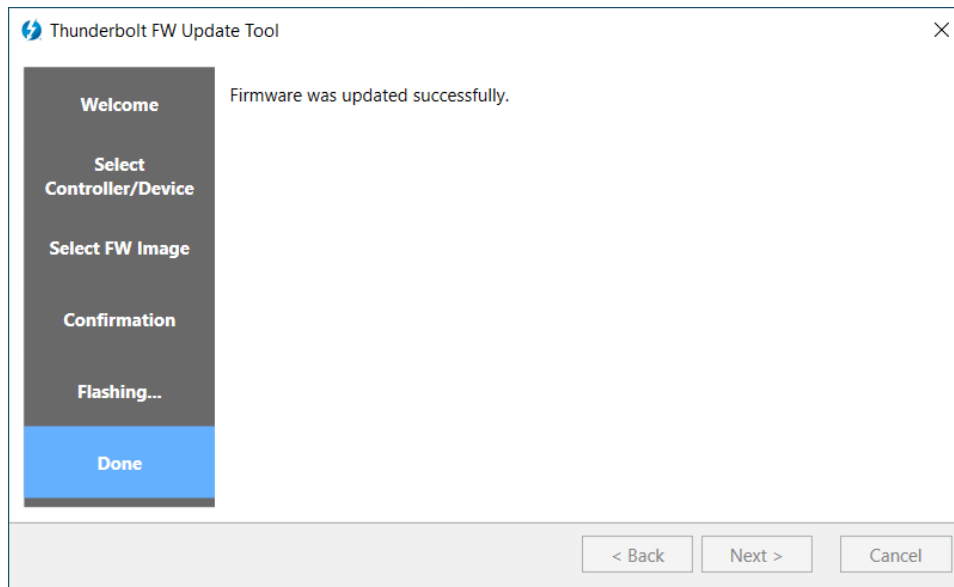
If you don't have a Thunderbolt device attached when running the firmware update, you will get a timeout message. Please connect a Thunderbolt or USB Type C device and run the Thunderbolt update again.







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