

How to use Numato Lab's Firmware Update Tool

Important: This software is not for public distribution

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Introduction

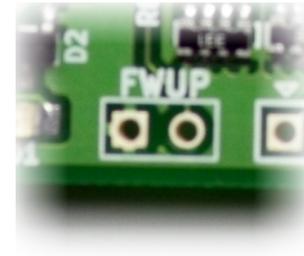
Most of Numato Lab's USB based products are shipped with pre-programmed bootloader to help with field firmware updates. This interface can be used to download new revisions of firmware that may be available from Numato Lab time to time or download your own custom firmware. Please follow the steps below to update the firmware on your product.

1. Obtain the firmware

Numato lab releases firmware updates for products when there are bug fixes or new features added to the product. The firmware may be downloaded directly from the product page if available or contact Numato Lab to find out if your device has any firmware updates available. All firmware updates may not be available for download from the product page.

2. Identify if your device supports field firmware upgrade

Only USB based devices support field firmware update at this time. If the device does not have a USB connector, chances are that the device does not support field firmware update. Not all USB based devices guaranteed to have field firmware update support either. If the device support field firmware update, there should be a two pin header on board with name similar to "FWUP" or "FWUPDATE". Thoroughly inspect the board and check if such a header is present. If there is no such jumper is present, chances are that the device does not support field firmware update. See examples of firmware update header below.



3. Install prerequisites

The firmware upgrade application currently supported on Windows only. It is important to make sure that all prerequisites are installed before running the application. Following needs to be installed before continuing with firmware upgrade.

- MS VC++ 2008 redistributable package
- MS .Net Framework 2.0

Skip this step if these packages are already installed on your machine. Installers for these two packages are available under "prerequisites" folder in the zip package that is provided with this

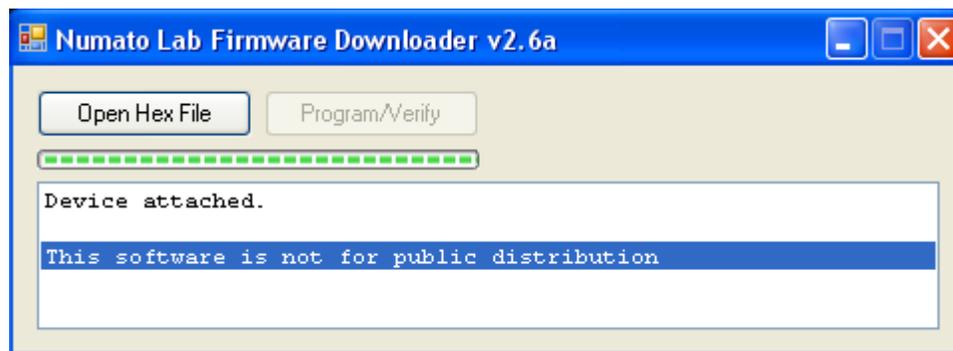
document. Run the appropriate installers and follow on screen instructions to complete installation.

4. Connecting your hardware to the PC

To activate the bootloader present on the device, short circuit the firmware update header using a short piece of wire or a jumper. Once the header is short circuited, connect the device to the PC using an appropriate USB cable. Please note that when bootloader is activated, normal features and functions will not be accessible.

5. Downloading the firmware

Run downloader.exe found under bin folder. If everything is setup correct, you should be presented with the following screen.



If you are unable to run the application, please make sure that all prerequisites are installed. If the "Open Hex File" button is grayed out, it means that the bootloader on the device is not activated. Please make sure that the device support field firmware update and revisit step 4 to properly connect the device to PC.

To download the firmware, click on the "Open Hex File" button, browse and select the hex file for the product. When the hex file is selected, the "Program/Verify" button should activate. Click the "Program/Verify" button to complete firmware download.