Bootloader Install

The first thing that needs to be done after completion of the UI board is to program the bootloader. This is done via the factory Bootrom of the STM32F4 processor.

Please use the DfuSe tools from ST for blank chip programming <u>here</u>. Please do not play with any Option Bytes (if you lock the fuses, the CPU will be useless)!

How to enter DFU mode:

- 1. Connect USB cable to pc (mini usb connector)
- 2. Close P6 jumper at the bottom of the UI board
- 3. Press and hold BAND+ button
- 4. Press and hold power
- 5. Release BAND+ and keep holding the power button(during the whole update process)
- 6. USB DFU device should appear

After that start the DfuSe Demo application and make sure the chip is detected, then select the latest bootloader file (dfu extension) with the Choose button.

STM Device in DFU Mode Supports Upload Supports Download Can Detach Enter DFU mode/HID detach	Inifestation tolerant Vendor ID: Vendor ID: Vendor ID: 0483 Inifestation tolerant Procuct ID: Procuct ID: DF1 mode. Leave DFU mode Version: Version: 2100
Actions Select Target(s): Target Id Na 00 Inte 01 Op 02 OT 03 Der	ne Available Sectors (Double Click for more) smal Flash 12 sectors ion Bytes 1 sectors P Memory 2 sectors rice Feature 1 sectors
File: Choose Upload	Version: DF11
0 KB(0 Bytes) of 0 KB(0 Bytes) Operation duration 00:00:00	Verify after download Verify after download Choose Upgrade Verify

Keep pressing the power button and click Upgrade, after a while you should get success on the upgrade process

STM Device in DI Supports Uplo Supports Dow Can Detach Enter DFU mode,	FU Mode ad Amifestation tolera nload Accelerated Uploar /HID detach Leave DFU mod	Application Mode: Vendor ID: Je Application Mode: Vendor ID: Vendor Vend
cuons Select Target(s):	Target Id Name 00 Internal Flash 01 Option Bytes 02 OTP Memory 03 Device Feature	Available Sectors (Double Click for more) 12 sectors 1 sectors 2 sectors 1 sectors
Upload Action File: Choose. Transferred data 11 KB(12212 By Bytes) Operation duratio	. Upload File: . Upload File: Vende Procue Version of 11 KB(12212 Version I Version of 0	de or Verify Action mcHF_boot_0.0.0.6. dfu full: 0483 t ID: 0F11 sion: 0F11 rifly after download stimize Upgrade duration (Remove some FFs) cose Upgrade Verify

Disconnect power and open the P6 jumper to restore normal operation