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.

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00 Ini 01 0r 02 01	me Available Sectors (Double Click for more) emal Flash 12 sectors The Memory 2 sectors evice Feature 1 sectors
File: Choose Uploa Transferred data size 0 KB(0 Bytes) of 0 KB(0 Bytes)	File: mcHF_boot_0.0.0.6.dfu Vendor ID: 0483 Procuct ID: DF11 Version: DF11
Operation duration 00:00:00	Verify after download Optimize Upgrade duration (Remove some FFs) Choose Upgrade Verify

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

TM Device in DF Supports Uploa Supports Dowr Can Detach Enter DFU mode/	ad I Manifestation to nload I Accelerated Up	ad (ST) Procuct ID:	DFU Mode: Vendor ID: 0483 Procuct ID: DF11 Version: 2100
ctions elect Target(s):	Target Id Name 00 Internal Flash 01 Option Bytes 02 OTP Memory 03 Device Feature	Available Sectors ([12 sectors 1 sectors 2 sectors 1 sectors	ouble Click for more)
Bytes) Operation duratio	size Fill Vi size Pn es) of 11 KB(12212 Fill Vi es) of 12 KB(1221 Fill Vi es) of 12 KB(1221F) of 12 KB(1221	ade or Verify Action mcHF_boot_0.0.0.6.dfu Targets in file: 00 Bootk uct ID: DF11 ersion: DF11 /erify after download Dptimize Upgrade duration (Remove Choose	

Disconnect power and open the P6 jumper to restore normal operation