

Bootloader Installation Procedure

The first thing that needs to be done after completion of the UI board is to program the bootloader. There are different procedures possible (programming via ST-LinkV2, use DFU mode of STM) – here I explain programming bootloader via DfuSeTools from ST using PC running „Windows“.

First download DfuSeTools from ST: <http://www.st.com/en/development-tools/stsw-stm32080.html>
Install it and start application. Connect USB-cable with mini USB plug on the other side of cable.

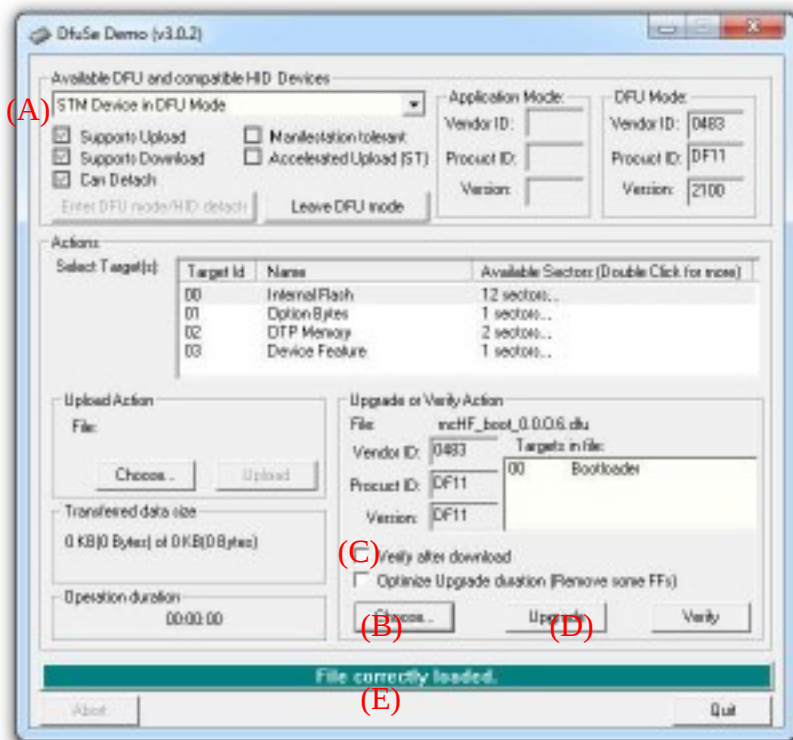
Do not play with any option bytes (if you lock the fuses, the MCU can become useless)!

Now to enter DFU mode on UI-board. Do not connect RF and UI board – use single UI board.

1. Close P6 jumper at the bottom of the UI board
2. Press and hold BAND+ button
3. Connect 5V to pin28 of header
4. Connect USB plug from PC to small USB connector
5. Release BAND+ if a new device is recognized
6. Let Windows finish driver installation procedure

Now get a bootloader (dfu extension). There are two different bootloaders available:

1. DF8OE bootloader (you can do firmware updates without PC using a simple USB key). You can get this bootloader from GitHub <https://github.com/df8oe/mchf-github/releases>
2. M0NKA bootloader (you have to use close source mchf-manager and PC for fw-upgrade) M0NKA bootloader is available at http://www.m0nka.co.uk/?page_id=5269



1. If you can see (A) „STM Sevice in DFU Mode“ in the left upper box connection between STM MCU and program is working.
2. Now press (B) „Choose...“ located in the right down area and select the downloaded bootloader file with extension .dfu.
3. Set a mark to (C) „Verify after download“ in the same area.
4. Press (D) „Upgrade“ in the same area. It will take a few seconds and then process hopefully is finished successfully.
5. Now disconnect power from ui board and remove jumper P6.
6. You are ready to apply firmware now!