

## MCB-377 firmware upload

Firmware in the MCB-377 controller board is uploadable through the USB interface at the power-up with the windows software tool HIDbootloader (see page 4, where you can get HIDbootloader). New firmwares are available directly from Andig.

### Firmware Selection :

Firmwares are hex file. Its name contains :

1. the software name : F220
2. the software version : v#\_#
3. other extras characters

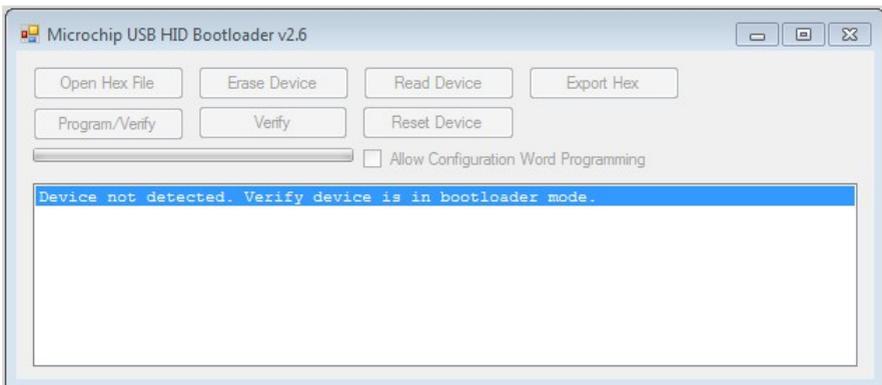
Example : F220v1\_4\_boot.hex

### MCB-377 Firmware upload procedure :

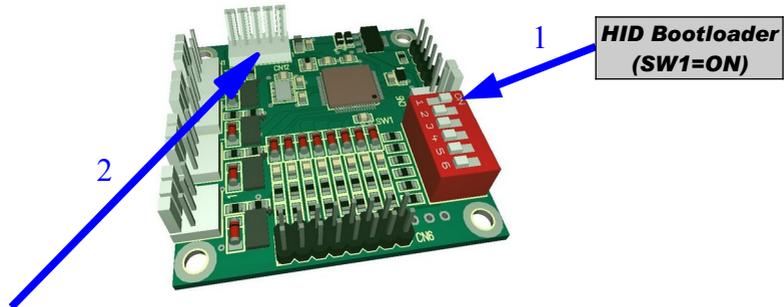
Execute the HIDbootloader.exe.

A windows appears.

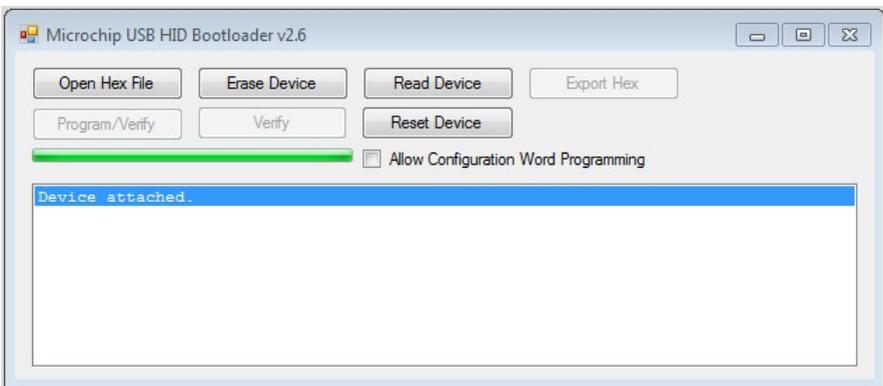
A status line indicates if a device is present or not.



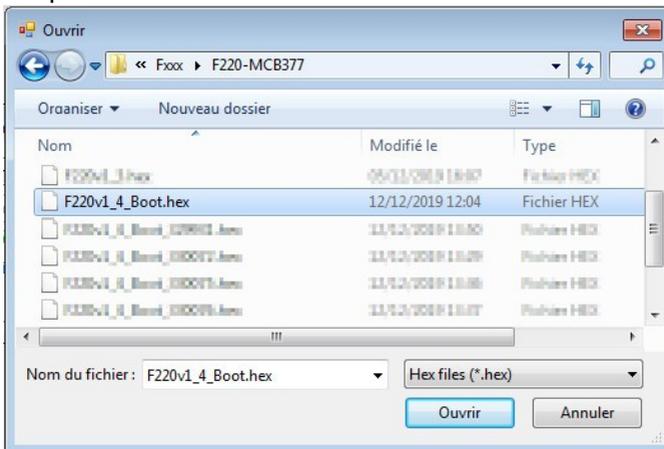
1. Set the switch SW1 ON on the board MCB-377



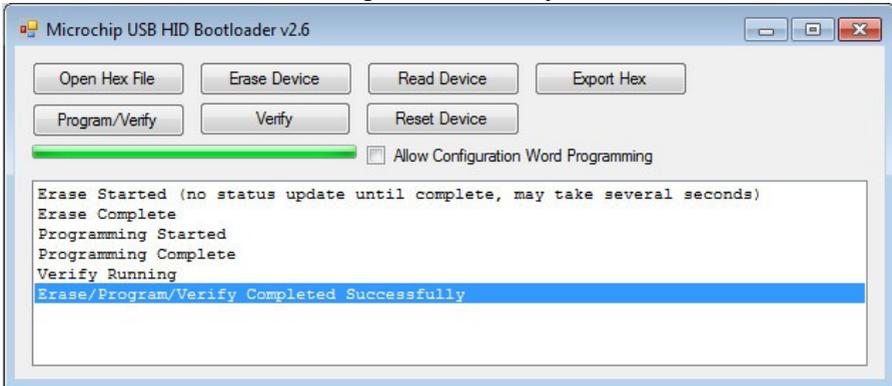
2. Connect the USB cable to the computer
3. HIDBootloader software must detect the MCB-377 board



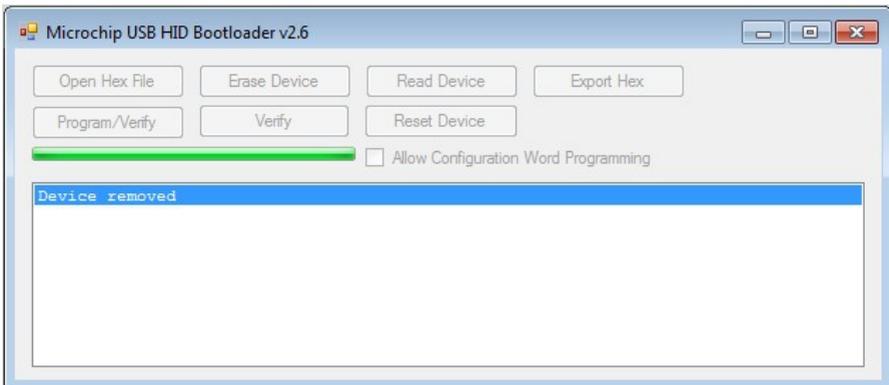
4. Open the new firmware you want to upload with the button « Open Hex File »



5. Click on button « Program and Verify »



6. Reset the Switch SW1 to OFF then click on the button « Reset Device » or disconnect then reconnect the USB Cable



7. Note: If the new upgrade adds new functionalities like a new SerialNumber, this number is available only after a change in the axis or buttons.  
So you must do one of the three programming methods to make it available :
- Axis programming mode
  - Buttons programming mode
  - Restore Factory settings mode

**HIDBootloader :**

This application is downloadable on the Microchip website.

It is included in the « Microchip Applications Libraries » and can be found in the folder « Libraries Microchip Solutions\USB Device - Bootloaders\HID - Bootloader. ».

Because these libraries are very heavy, you can download only the bootloader on our website at this address :

<https://www.andig.fr/files/pdf/download/joystick/bootloader/HIDBootLoader.exe>

**Warning :** The HIDBootloader.exe program was written in Microsoft Visual C++ 2005 Express Edition. Therefore, **in order to use this program, you will need to have the .NET framework version 2.0** (higher version probably okay, although not tested) installed on your computer. If you do not have the .NET framework 2.0 installed, a non-descript error message will occur when trying to launch the executable, and the program will not open. You may also need to install the Microsoft Visual C++ 2005 Redistributable Package.