

## MCB-362 or MCB-487 firmware upload

Firmware in the MCB-362 or MCB-487 controller boards 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 : F208 or F241 (Joystick and Mouse)  
F207 (Joystick Only)
2. the software version : v2\_5
3. the USB VID owner : MG (for Andig)
4. The number of Axis : 2 (between 0 to 8 with F208, 9 with F207)
5. The quantity of buttons : 4 (between 0 to 28)
6. The orientation of Y axis : STAND or TRY10 (desktop version)

Example : F208v2\_5\_MG\_2\_4\_STAND.hex

### MCB-362 and MCB-487 Firmware upload procedure :

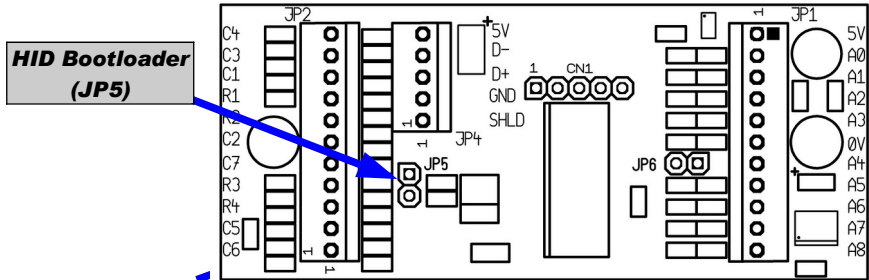
Execute the HIDbootloader.exe.

A windows appears.

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



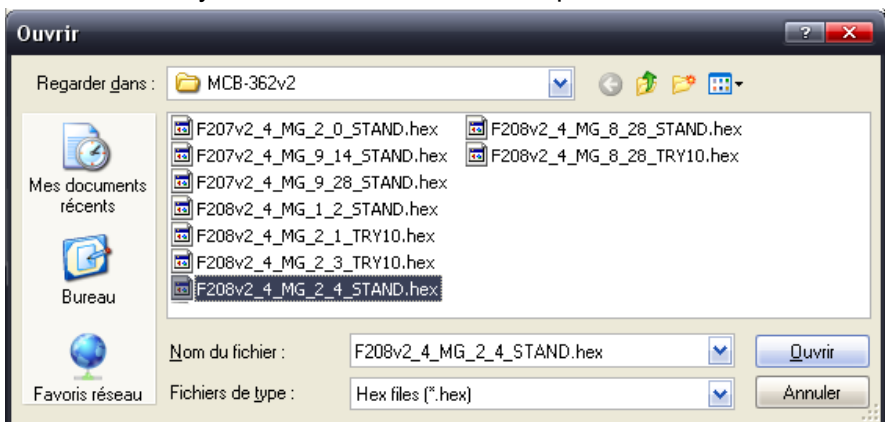
1. Close the jumper JP5 on the board



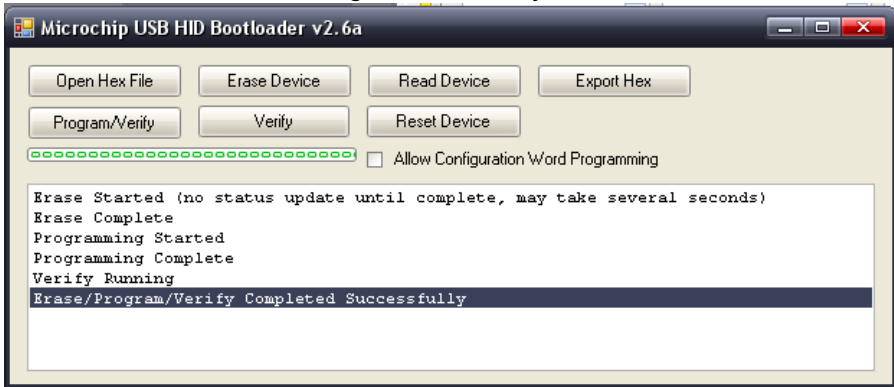
2. Connect the USB cable to the computer
3. HIDBootloader software must detect the board



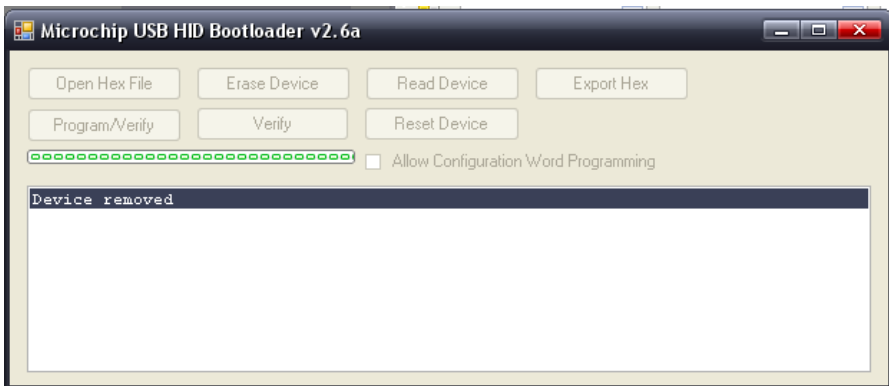
4. Open a new firmware according to the quantity of axis and buttons you need with the button « Open Hex File »



5. Clic on button « Program and Verify »



6. Remove the Jumper JP5 then clic on the button « Reset Device » or disconnect then reconnect the USB Cable



### **Windows User note :**

All firmwares use the same USB Vendor ID (25C7) and two different Product ID (0103 for firmware F208 or 0104 for firmware F207). Unfortunately, Windows operating system memorizes these informations in its database register. So it is necessary to clear these informations in the HKEY\_LOCAL\_MACHINE.

It doesn't affect the good working of the interface, only the name of the board is not correct when you use the « Game controller » in the « Control Panel »

You can create a text file called « Clean\_MCB.reg » which can do it for you with WinXP. Of course, you must use the right PID 0103 or 0104 depending of your firmware.

Here is the contents of Clean\_MCB-362\_Meg.reg:

#### **REGEDIT4**

```
[-HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\MediaProperties\Private
Properties\Joystick\OEM\VID_25C7&PID_0103]
[-HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\MediaProperties\Private
Properties\DirectInput\VID_25C7&PID_0103]
[-HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Enum\HID\VID_25C7&Pid_0103&Col01]
[-HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Enum\HID\VID_25C7&Pid_0103&Col02]
[-HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Enum\USB\VID_25C7&Pid_0103]
[-HKEY_LOCAL_MACHINE\SYSTEM\ControlSet002\Enum\HID\VID_25C7&Pid_0103]
```

### **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.