



How to update firmware for FrSky XMR receiver

Introduction

FrSky XMR receiver does not have a S.Port nor a S.Bus. The procedure to update the firmware is thus different from the other FrSky receivers like X8R, X6R...

The update of the firmware mainly makes it possible to switch between a EU-LBT communication protocol (European standard) and a FCC communication protocol (non-European standard).

With few exceptions, if you purchase your XMR from a European dealer, the firmware of EU-LBT protocol is already inside your XMR receiver. In the same way, if you purchase your XMR from a dealer located outside the European zone, the firmware of FCC protocol is already inside your XMR receiver.

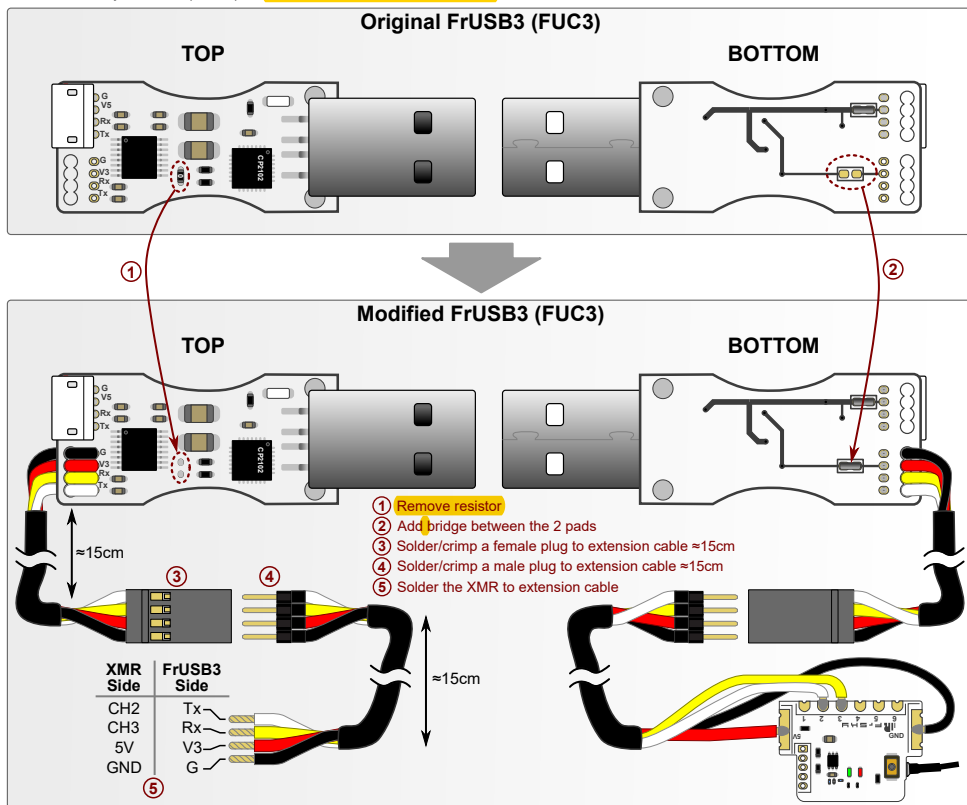
Hardware and files necessary

- FrSky XMR receiver
- FrSky FrUSB3 (FUC3)
- Soldering equipment for working on PCB (Printed Circuit Board)
- Desoldering equipment for working on PCB (Printed Circuit Board)
- Colored electric wires (4x colors, gauge about 22 AWG, length about 30cm)
- Pair of plug connector male and female with 4 contacts for electric wires **having a gauge about 22 AWG**
- PC computer equipped with Windows 7 operating system or above
- On www.frsky-rc.com download "frsky_update_sport_rev##" software for FrUSB3 (FUC3) product
- On www.frsky-rc.com download last firmwares for FrSky XMR receiver

Preliminary modification of FrUSB3 or FUC3

WARNING the modification described in this paragraph will have been done, the FrUSB3 (FUC3) won't be any more to be used to update the receivers' firmware equipped with S.Port or S.Bus

Please modify FrUSB3 (FUC3) as indicated in the illustration below

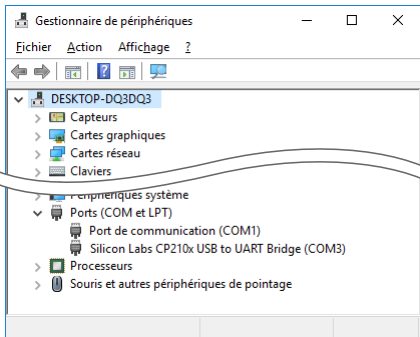




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FrUSB3 (FUC3) driver

The driver of FrUSB 3 is usually installed automatically on PC computer with Windows 7 operating system installed or above, when it is plugged to computer for the first time. However, if the driver installation fails, download the driver version on https://www.silabs.com/documents/public/software/CP210x_Windows_Drivers.zip, decompress and launch the installer corresponding to your version of Windows.



How to check if FrUSB3 (FUC3) driver installation is Ok

- 1 - In Windows OS, open "Configuration panel" window or "Parameters" window.
- 2 - In this window, you will find a field "Search". In this field, enter "Device Manager" and click the search result.
- 3 - You obtain the window whose illustration is here.
- 4 - Check if the line "Silicon Labs CP210x USB to UART Bridge" really exists under the heading "Ports (COM and LPT)". If this line doesn't exist, then FrUSB3 (FUC3) installation failed.
- 5 - Note "COM Port" number corresponding: for the opposite picture, it's the number 3, but it may be another number. This number is essential to launch firmware update for your FrSky XMR receiver.

How to update firmware for FrSky XMR receiver

- 1 - Download last XMR firmwares on www.frsky-rc.com at corresponding product page..

After unpacking archive, you then get two files:

- XMR FCC aammjj.frk for non-European version
- XMRLBT aammjj.frk for European version

Note aa represents the date of the version, jj for the day.

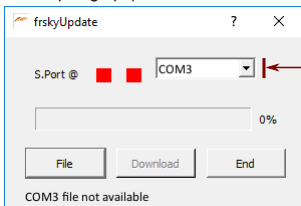
- 2 - Download the FrUSB3 (FUC3) software on website www.frsky-rc.com from product's page.

After unpacking, you obtain several files of which one of them can be launched frsky_update_sport_rev###.exe (with ## is version number).

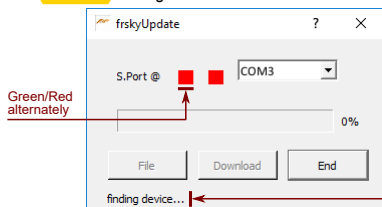
- 3 - Plug your FrUSB3 to computer, then your XMR to your FrUSB3 by connecting female plug (3) to male plug (4).

- 4 - Launch as administrator (right click for the command) the software frsky_update_sport_rev###.exe.

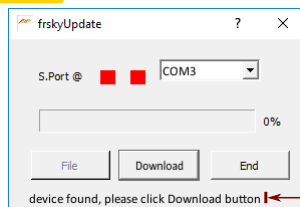
- 5 - Select COM Port of FrUSB3 listed in the "Device manager" (see previous paragraph)



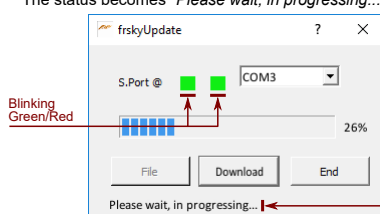
- 6 - Click on "File" button and select one of files: XMR FCC aammjj.frk or XMRLBT aammjj.frk. The status becomes "finding device...".



- 7 - Plug then plug the XMR to the FrUSB3 by deconnecting/ connecting female plug (3) to male plug (4). This operation results in the discovery of the XMR by the FrUSB3. The status becomes "device found, please click Download button".



- 8 - Click on "Download" button to launch firmware update to the XMR. Lights are blinking green/red. The progress bar indicates the progress of the transfer. The status becomes "Please wait, in progressing...".



- 9 - When the transfer is completed, the progress bar indicates 100%, the status changes to "Firmware is updated". Lights stay red.

- 10 - Quit the software by clicking "End" button.
- 11 - Unplug the XMR to the FrUSB3 by deconnecting female plug (3) from male plug (4).
- 12 - Desoldering the XMR from his extension cable. The XMR is ready to be installed in your model and to be binded to your FrSky transmitter.