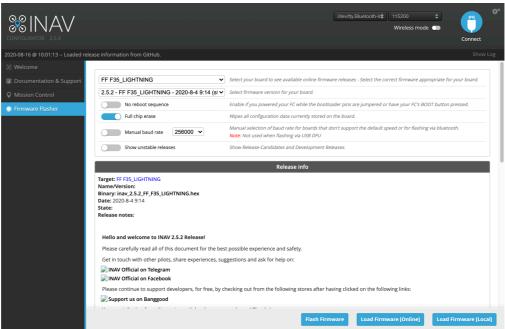
# **Update Firmware of F-35 Lightning FC**

To perform a firmware upgrade perform the following steps (windows only):

- 1. Install relevant drivers on windows needed to upgrade the F-35 Lightning FC:
  - a. Connect the F-35 Lightning with a USB cable to the computer
  - b. Download and execute the ImpulseRC Driver Fixer Tool
- 2. Secure the current configuration by following the instructions on: <u>NAV upgrade</u> guide. In short:
  - a. Use Inav Configurator to connect to the F-35 Lightning FC
  - b. Go to the CLI menu and enter diff all
  - c. Copy the results to a separate text file
  - d. Manually perform the changes mentionned in the INAV upgrade guide
- 3. Execute the firmware update
  - a. Press the Disconnect button in the Inav Configurator
  - b. Go to the Firmware Flasher menu
  - c. Select **FF F35\_LIGHTNING** as board target
  - d. Select latest firmware version
  - e. Press the Load Firmware button
  - f. Press the Flash Firmware button



- 4. Follow the instructions on <a href="INAV upgrade guide">INAV upgrade guide</a> to restore the preserved and adjusted configuration from point 2. In short:
  - a. Press the *Connect* button on the Inav Configurator. Once connected you should see the updated firmware version in the upper section.
  - b. Go to the CLI menu
  - c. Copy the adjusted settings from the text file mentionned in point 2 and paste them in the *CLI*
  - d. If no errors occur the F-35 Lightning FC reboots itself

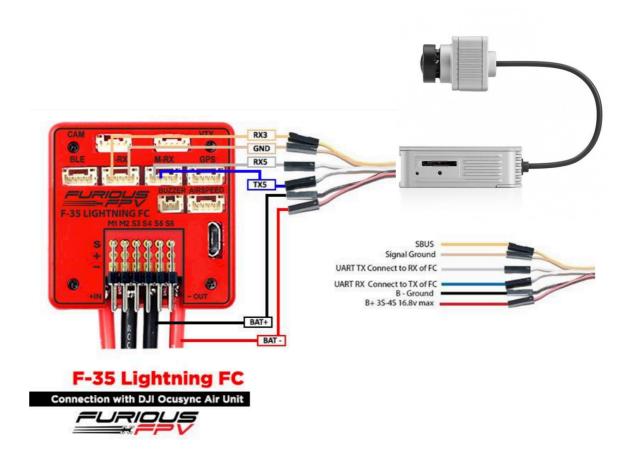
### **DJI Air Unit**

Important notice: The DJI Air Unit requires at least version 2.4.x or higher of INav. By default F-35 Lightning FC is shipped with firmware version 1.9.1. Consequently a firmware update is required. Use the instructions above to perform a firmware version upgrade.

Once the firmware is updated the Air Unit can be configured.

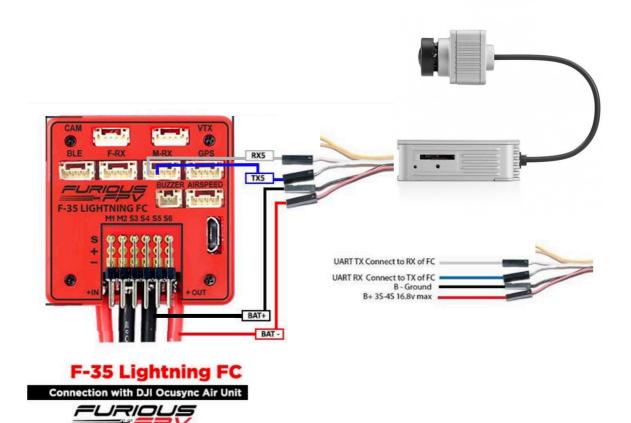
## a) DJI Air Unit with Dji Remote Controller





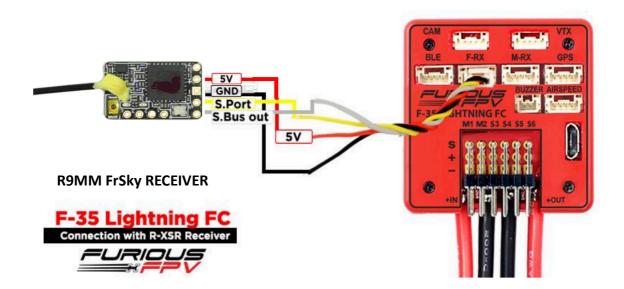
# b) DJI Air Unit only

ldentifier	Data	Telemetry	RX	Sensors	Peripherals
USB VCP	MSP 115200 ▼	Disabled ▼ AUTO ▼	Serial RX	Disabled ▼ 115200 ▼	Disabled ▼ 115200 ▼
UART1	MSP 115200 ▼	Disabled ▼ AUTO ▼	Serial RX	Disabled ▼ 115200 ▼	Disabled ▼ 115200 ▼
UART2	MSP 115200 ▼	Disabled ▼ AUTO ▼	Serial RX	GPS ▼ 57600 ▼	Disabled ▼ 115200 ▼
UART3	MSP 115200 ▼	Disabled ▼ AUTO ▼	Serial RX	Disabled ▼ 115200 ▼	Disabled ▼ 115200 ▼
UART4	MSP 115200 ▼	Disabled ▼ AUTO ▼	Serial RX	Disabled ▼ 115200 ▼	IRC Tramp ▼ 115200 ▼
UART5	MSP 115200 ▼	Disabled ▼ AUTO ▼	Serial RX	Disabled ▼ 115200 ▼	DJI FPV VTX ▼ 115200 ▼
UART6	MSP 115200 ▼	SmartPort ▼ AUTO ▼	Serial RX	Disabled ▼ 115200 ▼	Disabled ▼ 115200 ▼



#### **R9MM Receiver**



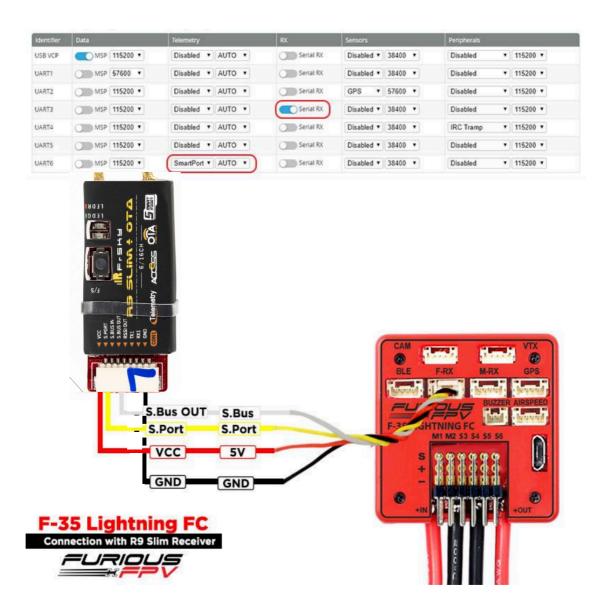


**Important**: For telemetry to work in the latest Inav version (tested with 2.5.x) you have to execute the following command in the CLI menu:

set telemetry\_halfduplex = OFF

As of Inav version 2.5.x this option cannot be set in de User Interface (yet).

### **R9Slim+ Receiver**



**Important**: For telemetry to work in the latest Inav version (tested with 2.5.x) you have to execute the following command in the CLI menu:

set telemetry\_halfduplex = OFF

As of Inav version 2.5.x this option cannot be set in de User Interface (yet).