F3_EVO_BRUSH flight controller built-in DSM2/DSMX Receiver for QX90/QX90C/QX95

Specification

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Dimension: 22mm*32.5mm	
Thickness: 1.2mm	
Weight: 3g	
Integrated receiver option:	
DSM2/DSMX compatible satellite Receiver	
Coreless motor plug: SH1.0	
Firmware: SP RACING F3 EVO 1.13.0	
Support work voltage: 3.6v~4.2v(1S Lipo battery)	

Connection diagram:
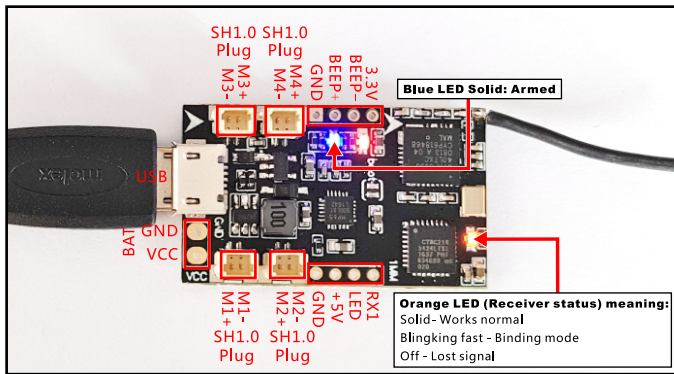
Receiver configuration:

1.DSM2/DSMX Receiver:

Enable Serial RX for UART3 from the ports tab in Cleanflight configurator
Set Receiver mode to RX_SERIAL ,Select SPEKTRUM1024 for DSM2 Radio and Select SPEKTRUM2048 for DSMX Radio from the Receiver tab in Cleanflight configurator
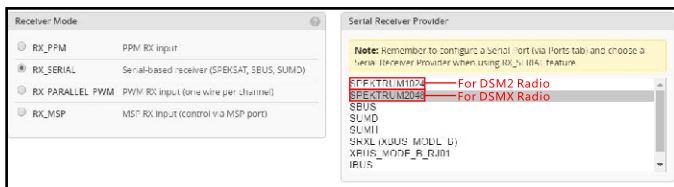
2.Bind procedure:

- Connect Flight controller to computer and open Cleanflight configurator From CLI tab type: "set spektrum_sat_bind = 9" for DSMX or "set spektrum_sat_bind = 5" for DSM2
- Type "save" and after Flight controller reboot remove USB cable (=Power off the board)
- Wait a second and reconnect the USB cable. After cold start satellite led(Orange color LED)should start blinking and transmitter should be turned on while pressing the bind button
- After binding satellite led should be solid. Connect Betaflight and use receiver tab to test that satellite is working correctly.
- Final step is to go to CLI tab and type "set spektrum_sat_bind = 0" and then type "save". This must be done so that satellite doesn't go back to binding mode when the Flight controller is repowered again.
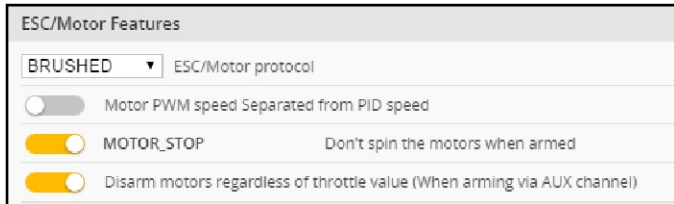

⚠ If you flashed the firmware or erase chip, please first do the bellowing procedure , don't connect the battery otherwise the motor will auto-spin

1.Cleanflight: Go to the CLI tab, type "Set motor_pwm_rate=1000" ,then enter save

Betaflight: Go to Configure Tab and set ESC/Motor protocol to BRUSHED

***This step is in order to avoid motor auto-spinning when connect the battery**