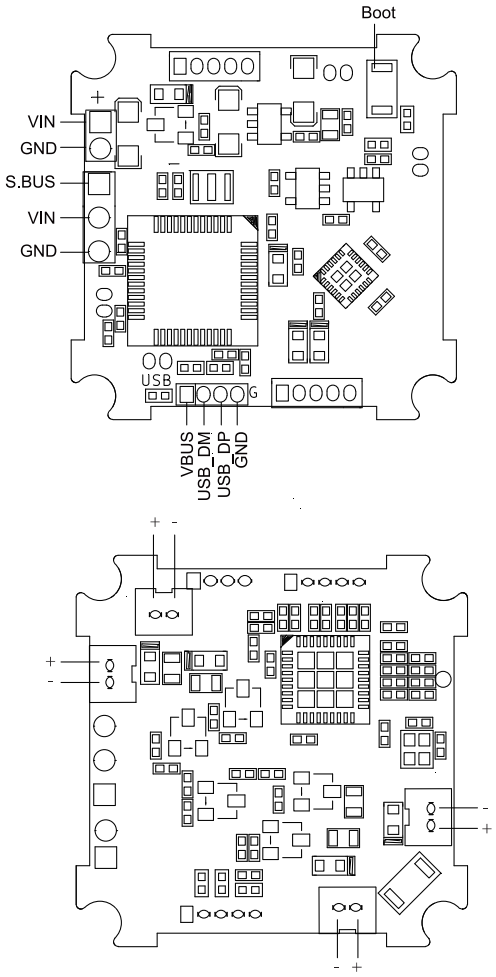
Overview



For XM receiver Status

Green LED	Red LED	Status
ON	Flashing	Binding
Flashing	OFF	Normal
OFF	Flashing	Signal lost
Flash Twice	Flash Once	Failsafe Set

Blue LED For F3EVO Status

Instruction Manual for FrSky XMF3E

Specifications

Model name: XMF3E
Dimension: 29×29×6mm (L × W × H)
Hardware: STM32F303 CPU (72Mhz inc FPU), MPU9250 (accelerometer/gyro/compass), CC2510 CPU for XM receiver
Weight: 3.4g
Channels: 16CH (8CH is RSSI) by SBUS to UART2 Rx of F3EVO
Operating voltage/current: 4.2V@75mA
Compatibility: FrSky Taranis X9D/X9E/Q X7/ Horus X12S/XJT in D16 mode
Firmware Upgradeable

Features

Built-in F3EVO and XM receiver module
Features the latest Accelerometer, Gyro and Compass technology.
XM receiver is a one-way receiver (no telemetry), it will receive the commands of Remote Control and send to F3EVO by SBUS (8CH is RSSI) to UART2 Rx of F3EVO

Software

The F3EVO runs the open-source Cleanflight/Betaflight flight control (FC) software and firmware upgradeable (SPRACINGF3EVO), the factory firmware is betaflight_3.0.0_SPRACINGF3EVO.
The XM receiver runs the software which was developed by FrSky and firmware upgradeable.

Binding Procedure

In order to help with the ease of the usage, XMF3E supports to bind without the F/S button.
Follow the steps below to finish the binding procedure.
1.Put the transmitter/transmitter module into binding mode
1.1For Taranis X9D/X9D Plus/X9E and Taranis Q X7, turn on the transmitter, go to the MENU – MODEL SETUP – PAGE 2, choose Internal or External RF, and select BIND.
1.2For Horus X12S, turn on the transmitter, go to the RF SYSTEM, choose Internal or External RF, and select BIND under STATE
1.3For transmitter module (XJT as an example), turn on the transmitter while holding the F/S button on the module, released the button and the RED LED on XJT module will flash.
2.Connect battery to the XMF3E. The RED LED on the receiver indicates the receiver is waiting to receive commands. After 2 seconds, both the RED LED and GREEN LED indicates the receiver is in binding mode. The RED LED on the receiver will flash while the GREEN LED is on, indicating the binding procedure is completed.
3.Turn off the transmitter/transmitter module and XMF3E.
4.Put the transmitter/transmitter module into normal working mode first and connect the battery to the XMF3E. The GREEN LED on the receiver indicates the receiver is receiving commands from the transmitter. The binding will not have to be repeated, unless one of the transmitter/transmitter module and the receiver is replaced.

Configuration of F3EVO

Because the XM receiver receive the commands of Remote Control and send to F3EVO by SBUS(16CH, 8CH is RSSI) to UART2 Rx of F3EVO, we need set the appropriate settings on the Configurator tool.
1. In the ports, set the UART2 to be Serial RX.
2. In the Configuration, set the Receiver Mode to be RX_SERIAL and Serial Receiver Provider to be SBUS, and disable the RSSI_ADC Analog RSSI input.
3. In the Receiver, set the RSSI Channel to be 8.

For other configurations, please refer to the Cleanflight/Betaflight.

Configuration of XM receiver

The configuration of XM receiver please refer to the manual of XM (www.frsky-rc.com).

FrSky is continuously adding features and improvements to our products. To get the most from your product, please check the download section of the FrSky website www.frsky-rc.com for the latest update firmware and manuals

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