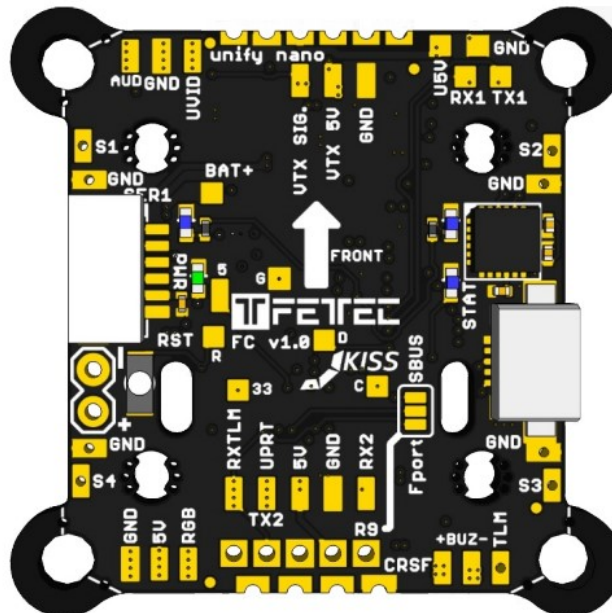**Manuals+** — User Manuals Simplified.

FETTEC SW26 KISS FC Flight Controller Instruction Manual

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Contents

FETTEC SW26 KISS FC Flight Controller Instruction Manual

Introduction

Thank you for purchasing the FETtec FC. This is a KISS licensed F7 Flight-controller

Features

- KISS FC firmware
- 2S-6S Lipo voltage
- Dimensions 35x30mm without 30×30 corners
- 20x20mm (with breakable holes M2 to M3)
- 30x30mm hole distance useable (breakable 30x30mm corners)
- F7 Processor [DShot 2400, Oneshot, Onewire]
- Direct places for RX and VTX (unify nano, CRSF nano, FrSky R9)
- Build-in real Pit-Mode for unify nano (via VTX Pin and 5V on SER1)
- Dedicated onboard 5V BEC for VTX (max 600mA)
- Motor Signal and GND pads in each corner
- 8 pin connector for solder free FETtec ESC connection

Safety warning

- Remove propeller before flashing and configuration

Connection Diagram

Top/Bottom Layout

Signal1-4 – Motor Signal 1-4
ESCTLM – Telemetry (Serial)
GND – Reference Signal Ground
UPRT – Receiver signal port (SBUS / F-Port / PPM / Crossfire TX)
RXTLM – Receiver telemetry (sPort / Crossfire RX)

Serial connectors (SER1&SER3) are JST-SH-1mm 6-pin

Dimension (in mm)

Dimensions 35x30mm without 30x30mm corners

- 20x20mm (with breakable holes M2 to M3)
- 30x30mm hole distance useable (breakable 30x30mm corners)

FC Version 1.2
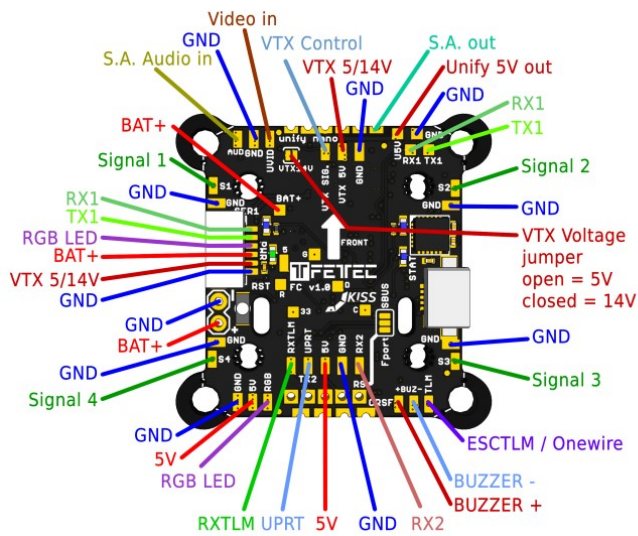
Basic Setup

8 pin connection

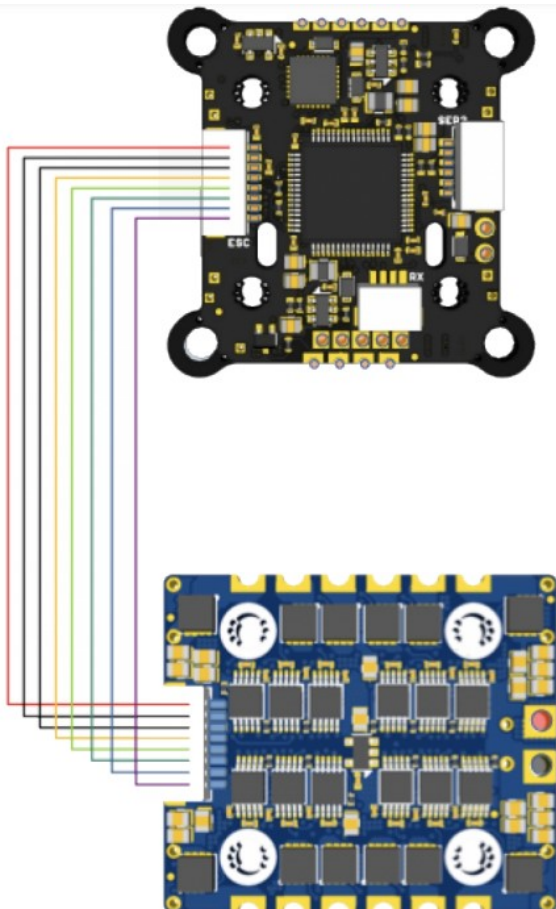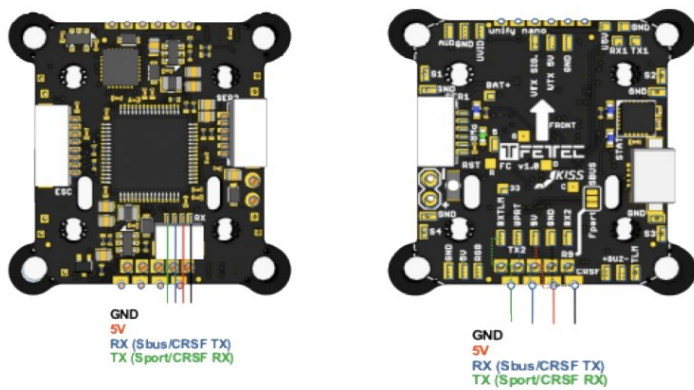(JST-SH-1mm 8-pin) FETtec KISS FC to FETtec ESC (cable included by FETtec ESC)

Introduction

Thank you for purchasing the FETtec FC. This is a KISS licensed F7 Flight-controller

GND
5V
RX (Sbus/CRSF TX)
TX (Sport/CRSF RX)

GND
5V
RX (Sbus/CRSF TX)
TX (Sport/CRSF RX)

FrSky R-XSR

GND
+5V

Fport

F/S

GND
+5V
S.Port
SBUS_OUT/CPPM
SBUS_IN

F/S

R9 Signal usage Solder jumper. Bridge only one!

Bridge for S-Bus use

Bridge for F-Port use
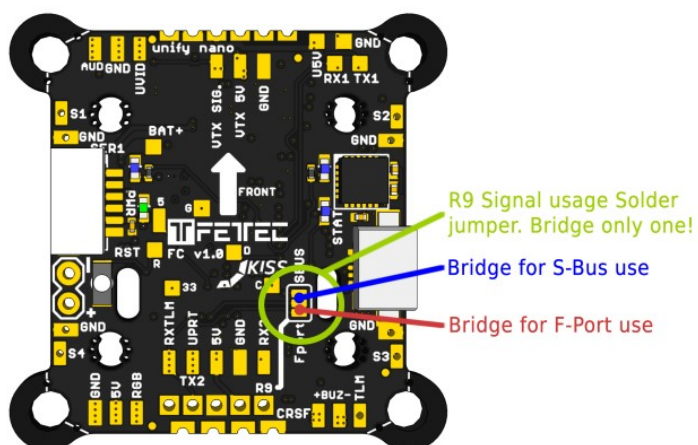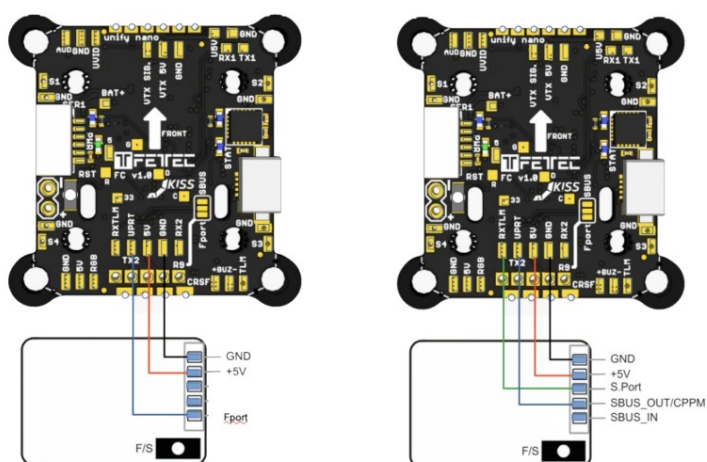
Crossfire nano connection

cable connection   *2,54mm pinheader connection*

VTX connection (Unify nano)

Camera connection

Notes:

- RX and TX connection is only for cameras that support serial
- 5V (U5V) and Video (UVID) are only for use with a mounted unify PRO nano or unify PRO nano 32

Resetbutton

Resets the FC to the preflashed bootloader

Reset Button
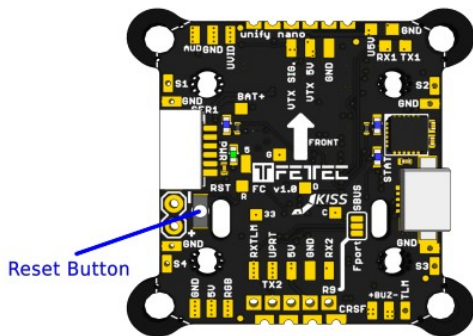
KISS Firmware

For the latest KISS FC firmware and GUI please visit https://github.com/flyduino
To update the FETtec FC firmware please use the KISS GUI and choose FETTEC KISS FC
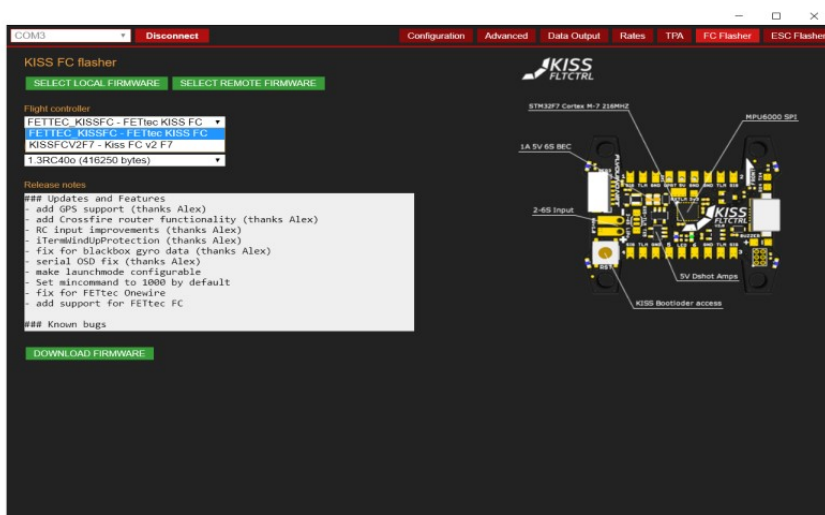
Technical details

- STM32F7RET6 @ 216MHz
- MPU6000
- Supply voltage 6-27V (2-6S LiPo)
- 2x 5V BEC's (1x VTX with realpit, 1x all others
- both max 600mA

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Documents / Resources

FETTEC SW26 KISS FC Flight Controller [pdf] Instruction Manual
SW26, KISS FC Flight Controller, SW26 KISS FC Flight Controller, FC Flight Controller, Flight Controller, Controller

References

- **flyduino · GitHub**