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Introduction

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

Features

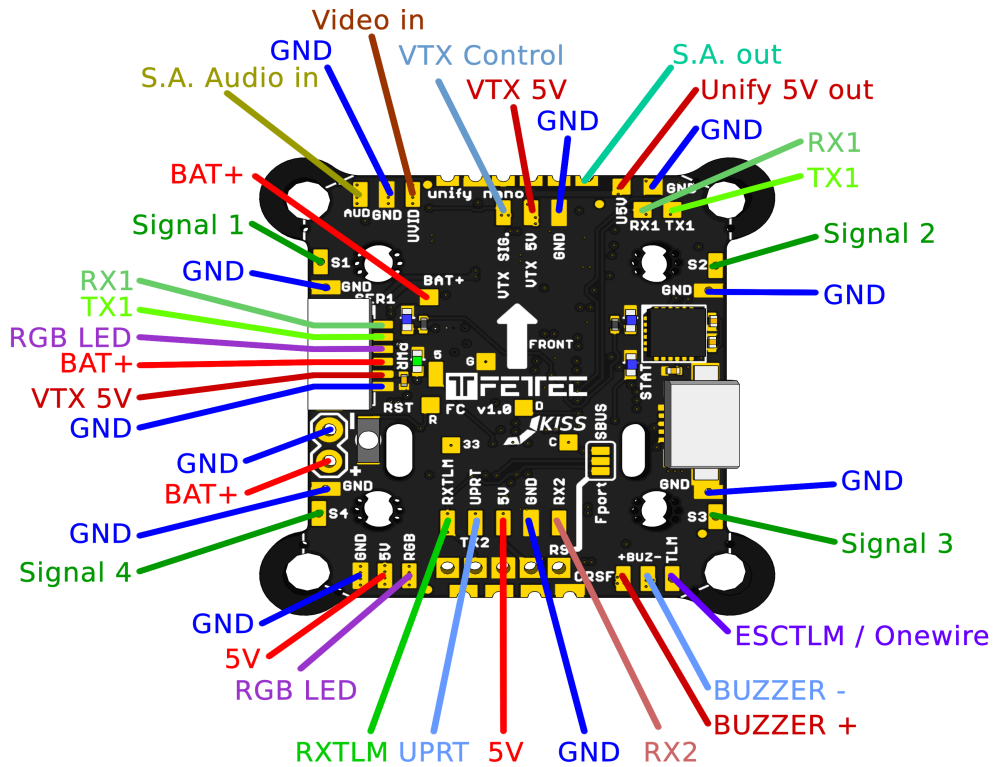
- KISS FC firmware
- 2S-6S Lipo voltage
- Dimensions 35x30mm without 30x30 corners
 - 20x20mm (with breakable holes M2 to M3)
 - 30x30mm hole distance useable (breakable 30x30mm corners)
- F7 Processor [DShot 2400, Oneshot, Onewire]
- Direct places for RX and VTX (unify nano, CRSF nano, FrSky R9)
- Build-in 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



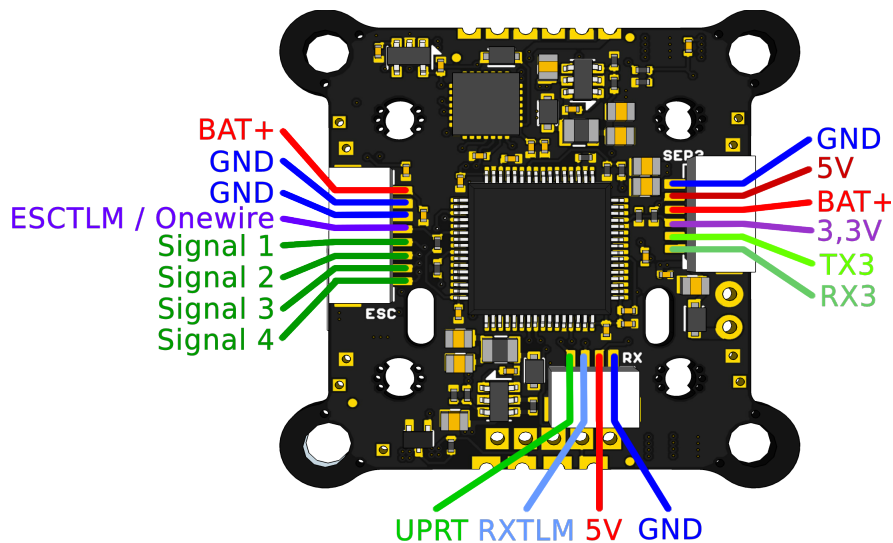
Signal1-4 – Motor Signal 1-4

ESCTLM – Telemetry (Serial)

GND – Reference Signal Ground

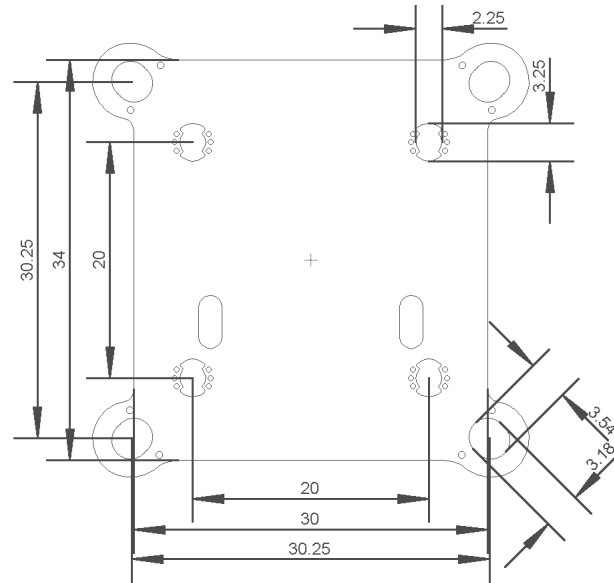
UPRT – Receiver signal port (SBUS / F-Port / PPM / Crossfire TX)

RXTLM – Receiver telemetry (sPort / Crossfire RX)



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

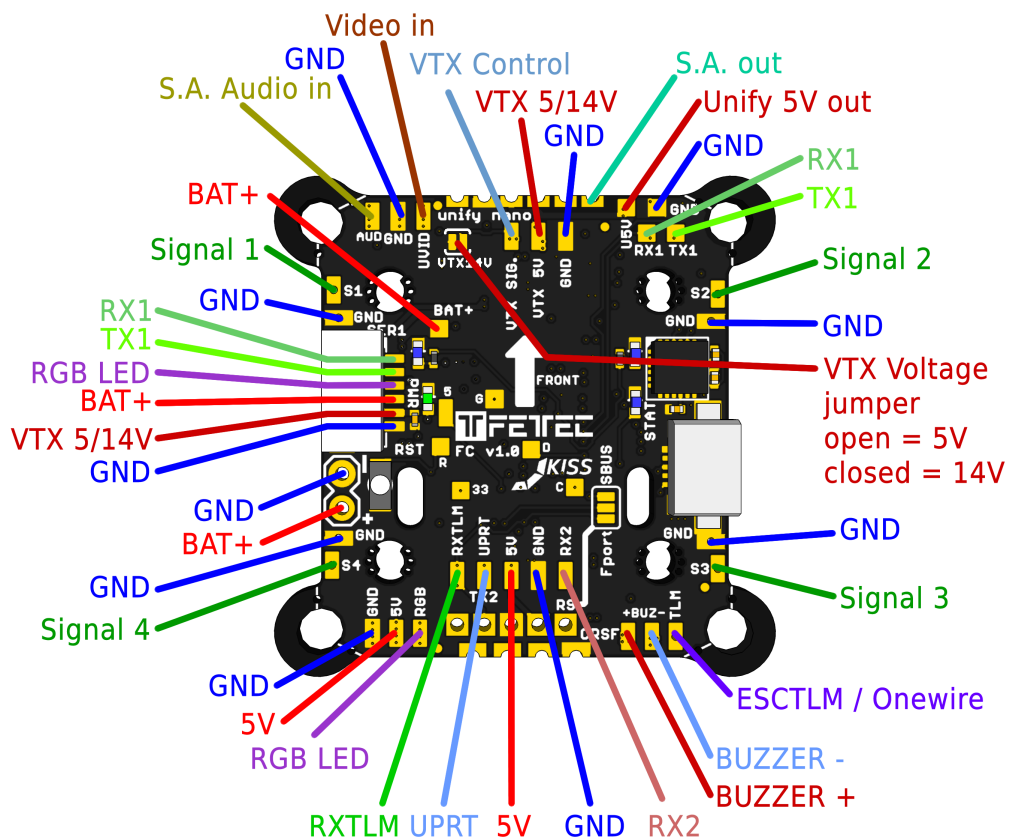
Dimension (in mm)



Dimensions 35x30mm without 30x30mm corners

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

FC Version 1.2

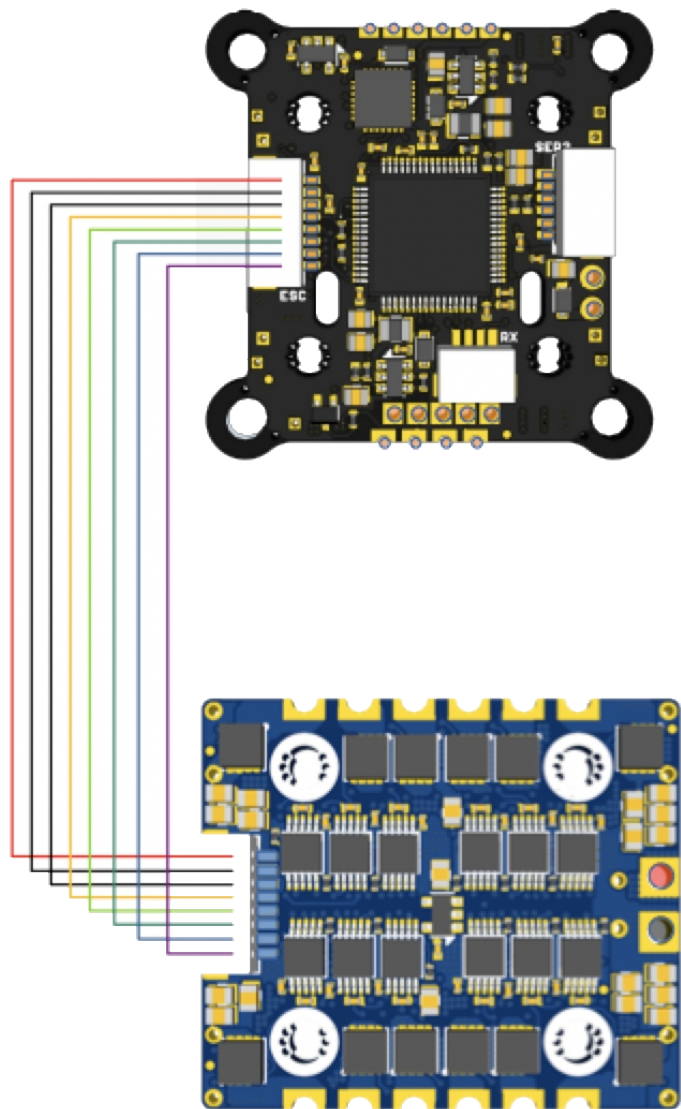


Basic Setup

8 pin connection

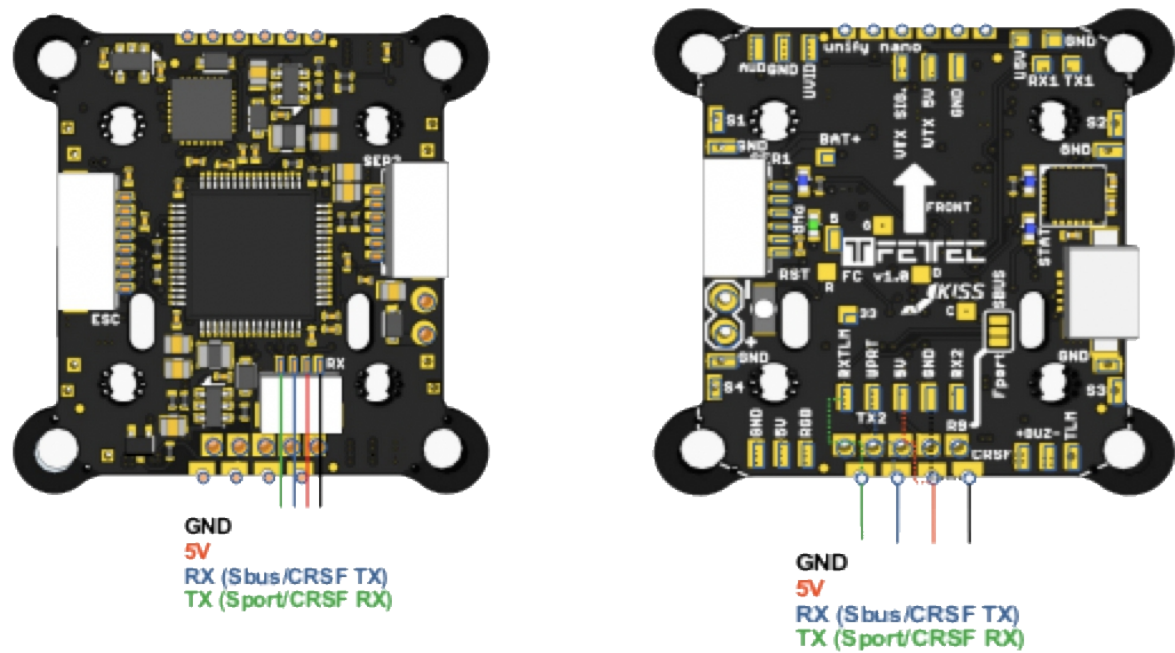
(JST-SH-1mm 8-pin)

FETtec KISS FC to FETtec ESC
(cable included by FETtec ESC)

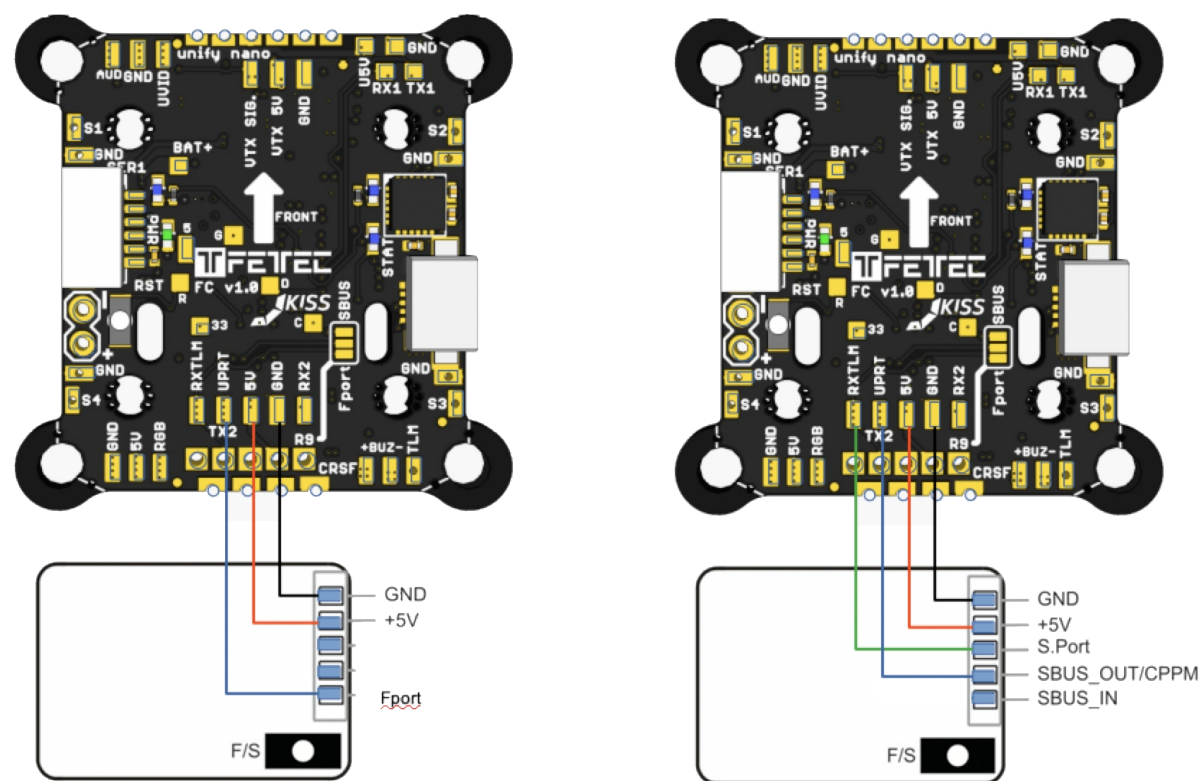


Receiver connection (RX)

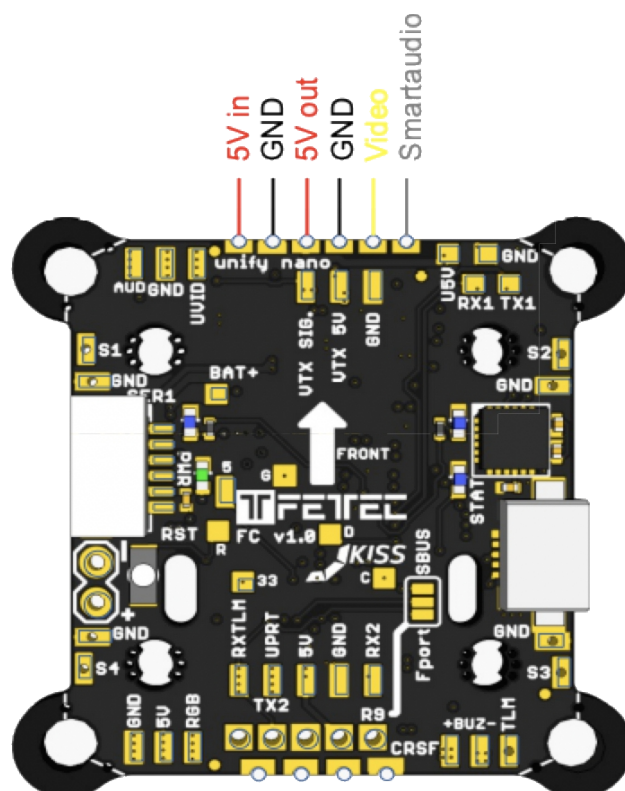
Top&Bottom connectors for receivers (bottom connector JST-SH-1mm 4-pin)



FrSky R-XSR



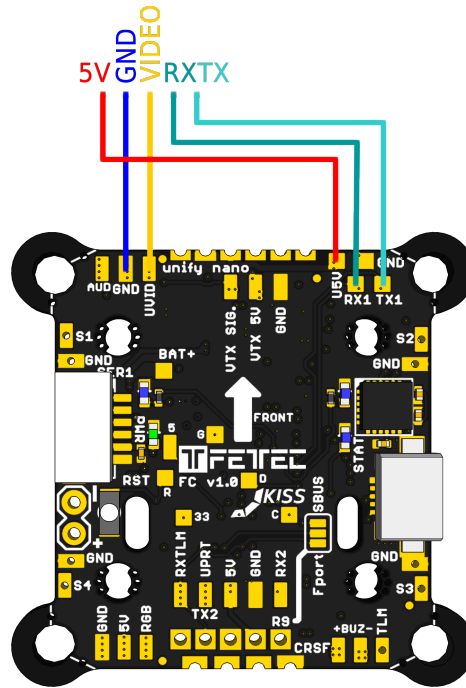
VTX connection (Unify nano)



Camera connection

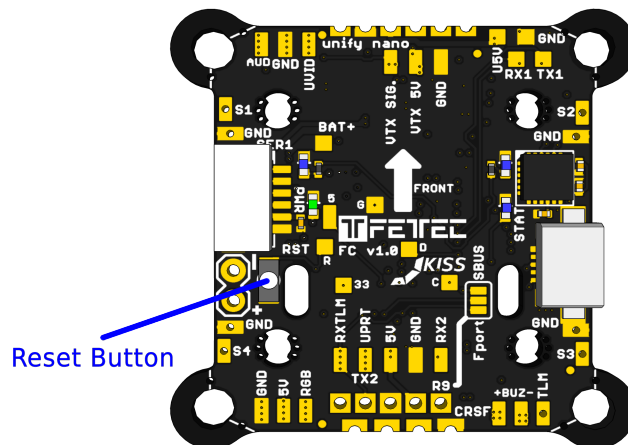
Notes:

- 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

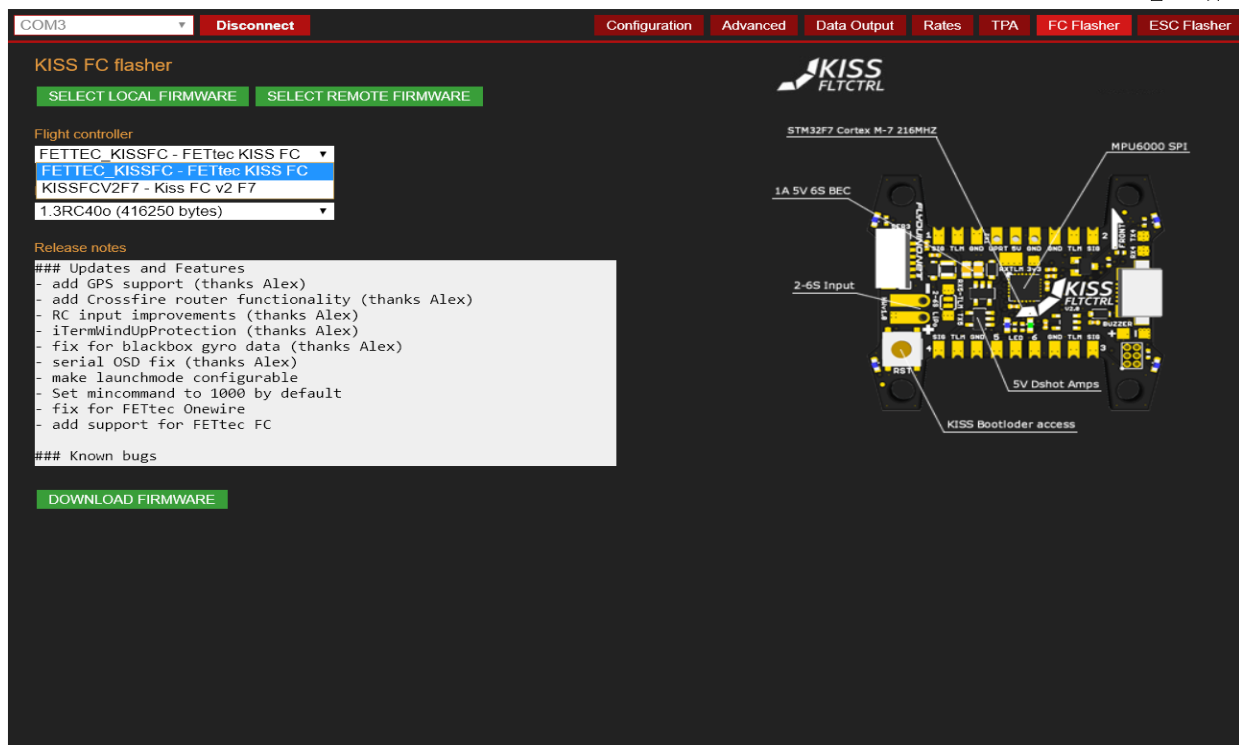
Resets the FC to the preflashed bootloader



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