









F4 Flight Controller

F405 / 5VBEC / Camera control / VTX Power Control / 6x UART

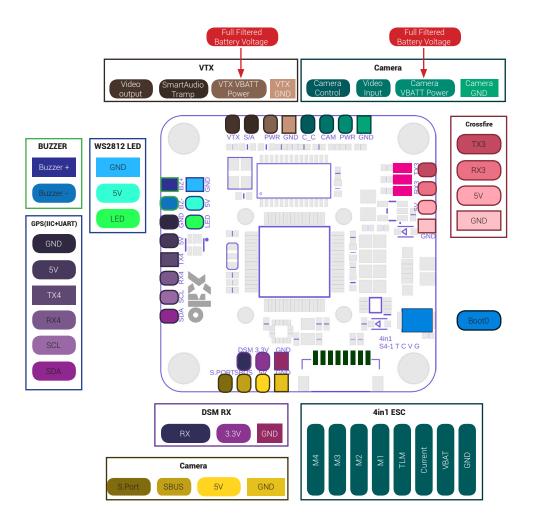
MCU:	F405
IMU:	ICM20602
OSD:	AB7456
UARTS:	6
PWM output:	4
I2C:	1
VBAT input:	8-30V
BEC:	5V 2A

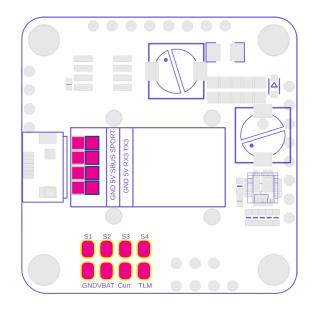
VTX Power Control Smartaudio / Tramp VTX Control Camera Control LC Power Filter Beeper Solder Pads WS2812b LED Strip Support 3x Receiver direct mount

Resources:

Function	Solder Pad Silk screen	Resouces	MCU Pin	Notes
SBUS	SBUS	RX 1	PA10	Build-in inverter
DSM2	DSM	TX 1	PA9	CLI serialrx_halfduplex set to ON
Smart Audio VTX	S/A	TX 5	PC12	
Smartport/F.port	S.PORT	UART 6	PC6/7	Built-in inverters
ESC Telemetry	TLM	RX 2	PA3	
Camera Control	C_C		PA8	
SDA	SDA	I2C1_SDA	PB9	Pull-up needed
SCL	SCL	I2C1_SCL	PB8	Pull-up needed
GPS	RX4/TX4	UART 4	PA0/1	
WS2812B LED	LED		PA15	
Buzzer	Bz-/Bz+		PC5	
VTX Switch			PB1	

Layout / Pinmap





Wiring - Receiver

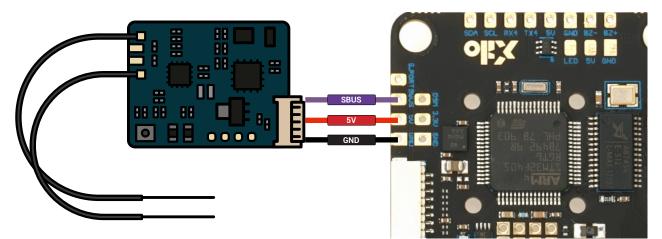
The XILO FC supports these Receivers: • SBUS

- SBUS+S.port •
- F.port
- DSM2 Receiver
- Crossfire

These receivers are not supported any more, if you need, with patched firmware, it could be used:

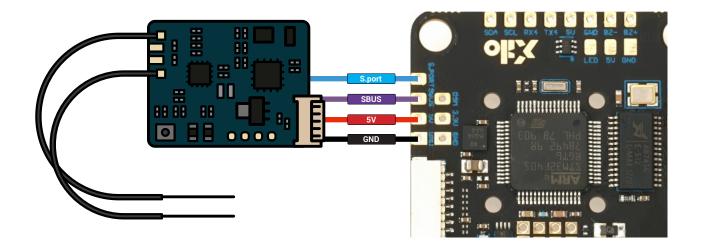
- Stand PWM receiver
- PPM receiver

SBUS Receiver wiring:



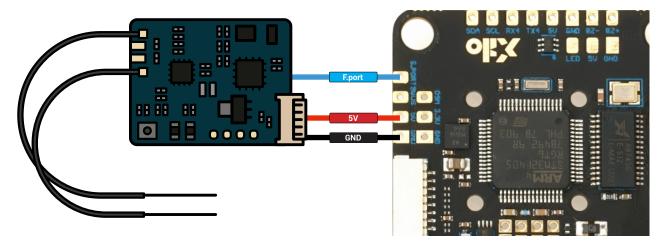
Initialize CLI:

SBUS + S.Port Receiver wiring:

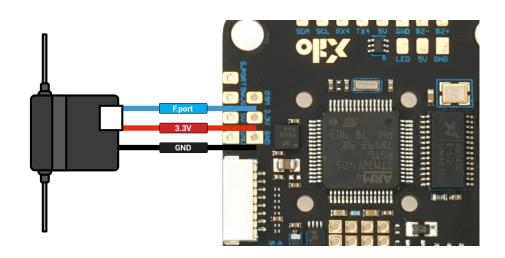


Wiring - Receiver

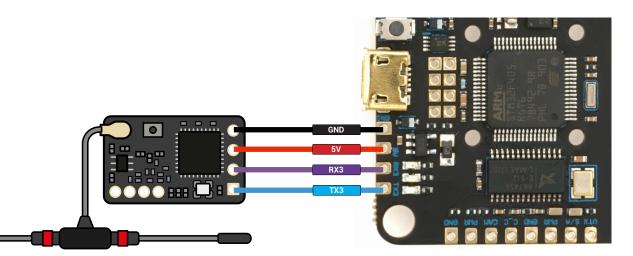
F.Port Receiver wiring:



DSM2

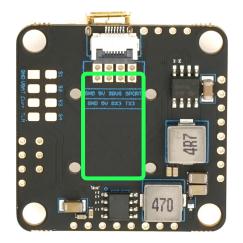


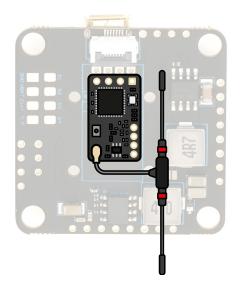
Crossfire



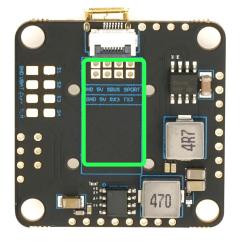
Wiring - Receiver Flat on the Back

Crossfire - Nano RX





Frsky XM+

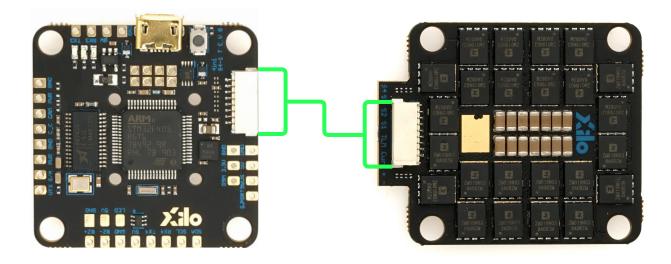




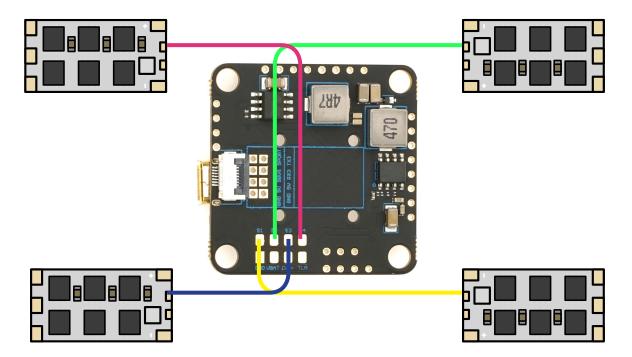
Wiring - ESC

4in1 ESC

The XILO 4in1 designed to support TLM(RPM/Voltage) and Current ADC, the Current Scale should be setted to 118 •



Single ESC



- If the ESC supports TLM function, please connect all 4 ESC TLM wires together, solder on the TLM pads If you are using PDB with current sensor(analog ADC), connect to the Curr pad •
- •

VTX Power Switch Setup

• The XILO Stax flight controller features a power pad for your video transmitter that can be remotely controlled via a switch setup in Betaflight. This allows you to remotely turn your VTX on or off from your radio! Simply solder your VTX to the corresponding pads on the Stax FC, (VTX, S/A, PWR, GND), the PWR pad will provide your VTX with filtered VBATT power. By default, the pad will be powered on. Go into Beta to set up a switch if you want to control power on/ off remotely. You will find it under the "Modes" tab and "USER1" switch. Assign this to the AUX switch of your choice to turn the power on/off for that PWR pad. Easy!

