飞控参数

固件:	FETTEC ALPHA
主控:	STM32G473
陀螺仪:	ICM 42688-P
黑匣子:	NO
气压计:	NO
BEC:	5V@2A 9V@2A
安装孔位:	30.5x30.5mm(M4)
输入电压:	8.4-25.2V
Uart串口:	R1 T1 R3 T3
接收机:	SIG TLM

电调参数

持续电流:	50A
瞬间电流:	55A
支持电池:	2-6S LiPo
支持固件:	FETTEC
电调协议:	DSHOT 150/300/600/1200/2400 FETTEC One Wire/S2M

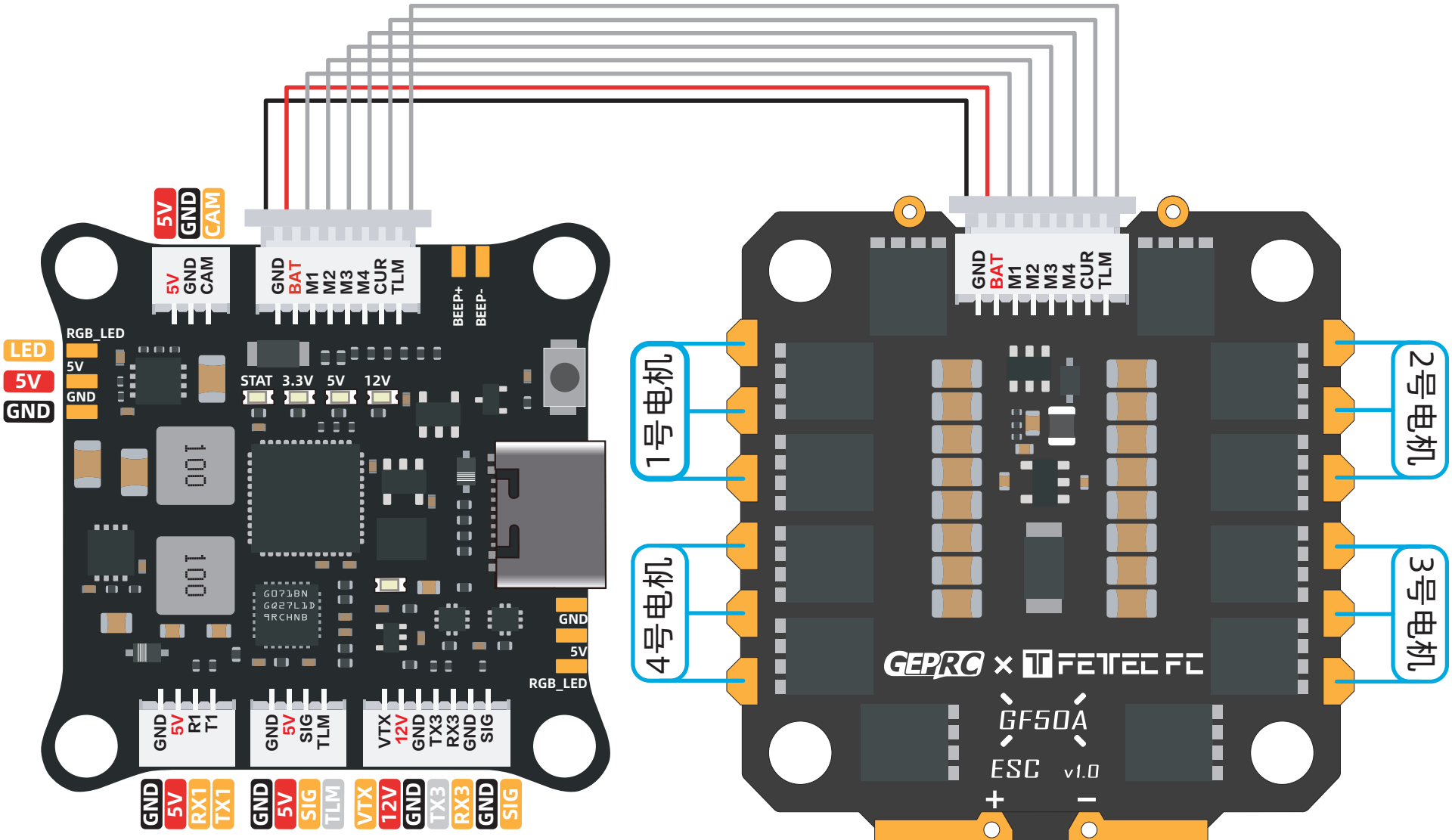
特色功能

- 预置FETTEC固件
- 内置模拟OSD芯片（STM32），支持布局自定义
- 实时数据显示(电压、电机转速、电流、电机温度、陀螺仪姿态、链路质量)
- 模组化设计，可免焊接安装（SH1.0插座），同时背面也预留了焊盘
- 外置LED控制功能

⚠ 安全警告

- 在给飞控进行刷写固件或调参时，务必卸下螺旋桨或不插入电池
- 请保持飞控为最新版本固件以获得更好的使用体验
- 每当调整飞控参数后的第一次试飞，请务必小心，并与飞行器保持安全距离
- 请远离人群安全飞行

接口定义



⚠ 注意

FETTEC电调的电机映射顺序与BLHELI不同，如果需要更改，
请到 **ESC+MOTOR SETUP → OUTPUT MAP** 调整每个电机的映射位置

配置FETTEC飞控

在电脑端使用浏览器打开 FETTEC AHPHA配置器地址：https://gui.fettec.net

建议使用Google Chrome 或 Microsoft Edge浏览器打开，并使用数据线将飞控连接电脑

打开后选择 **ALPHA Configurator** → **Open port** → **stm32 Virtual Comport（COMXX）** → **连接**







DJI数字图传

SETTINGS> FC STEUP> SERIAL

MSP protocol ports for OSD

MSP PORT1 ----------> SERIAL3

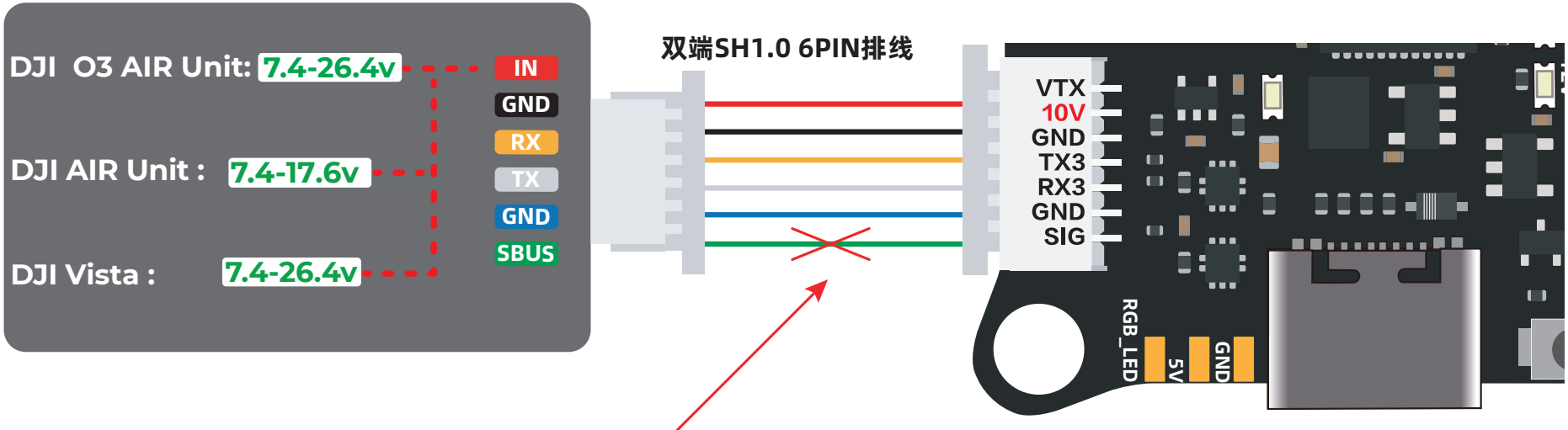
MSP PORT2

DISABLED

SERIAL1

SERIAL3

SERIAL4

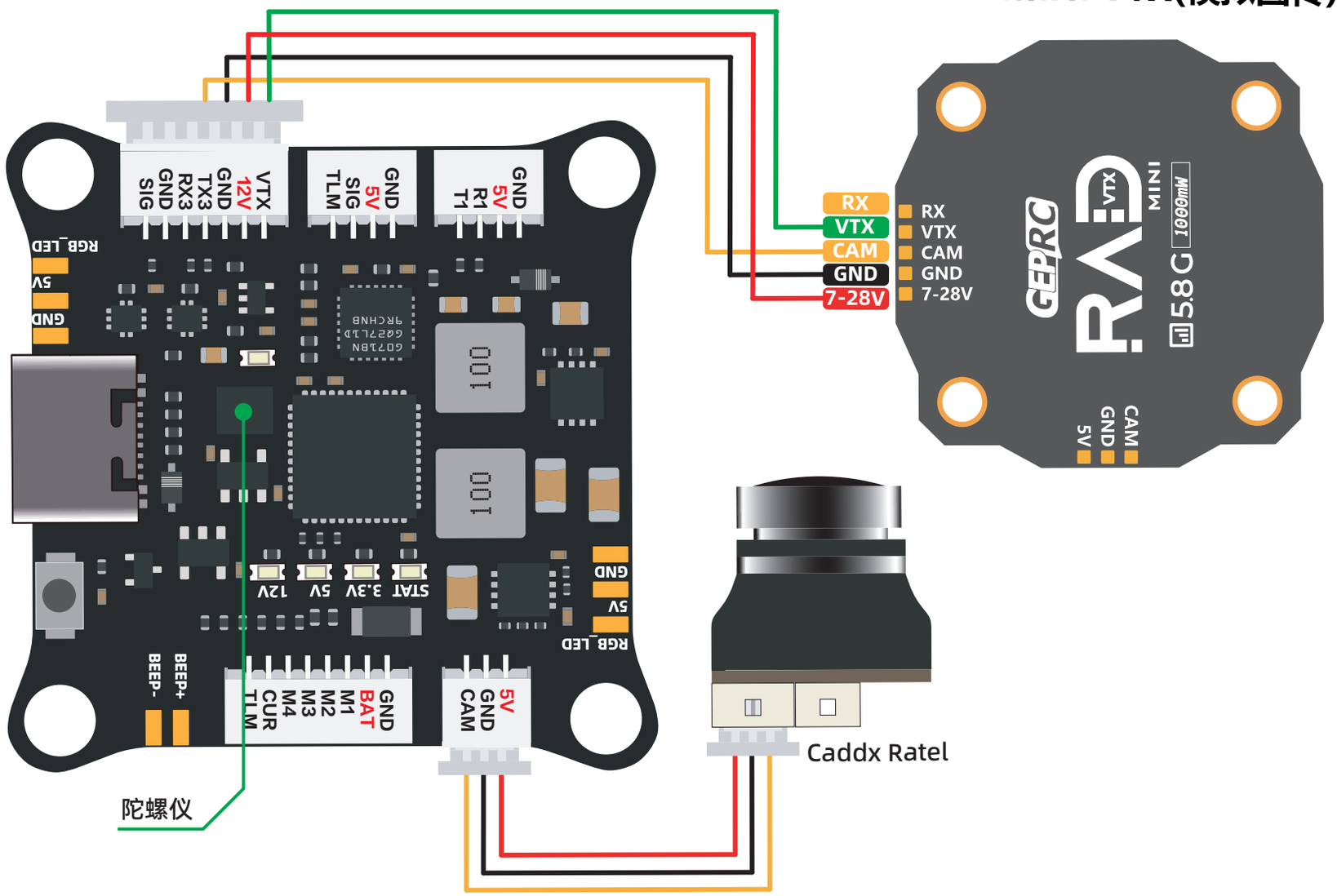


如果使用外置接收机，请断开此线

模拟图传

连接示例

GEPRC RAD MINI VTX(模拟图传)



SETTINGS > VTX SETUP

Video transmitter control signal setup

Control protocol:

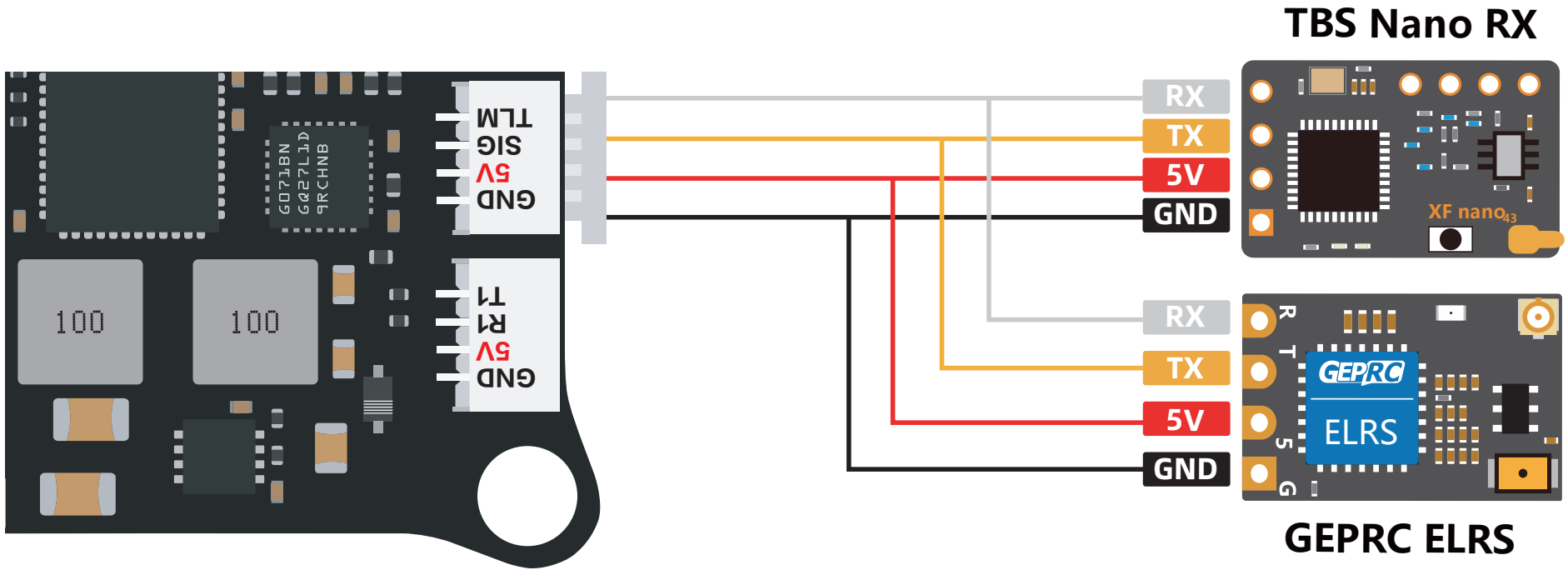
Band:



SMART AUD.
DISABLED
SMART AUD.
TRAMP

请选择你的图传协议，模拟图传
一般为SMART AUDIO或IRC TRAMP

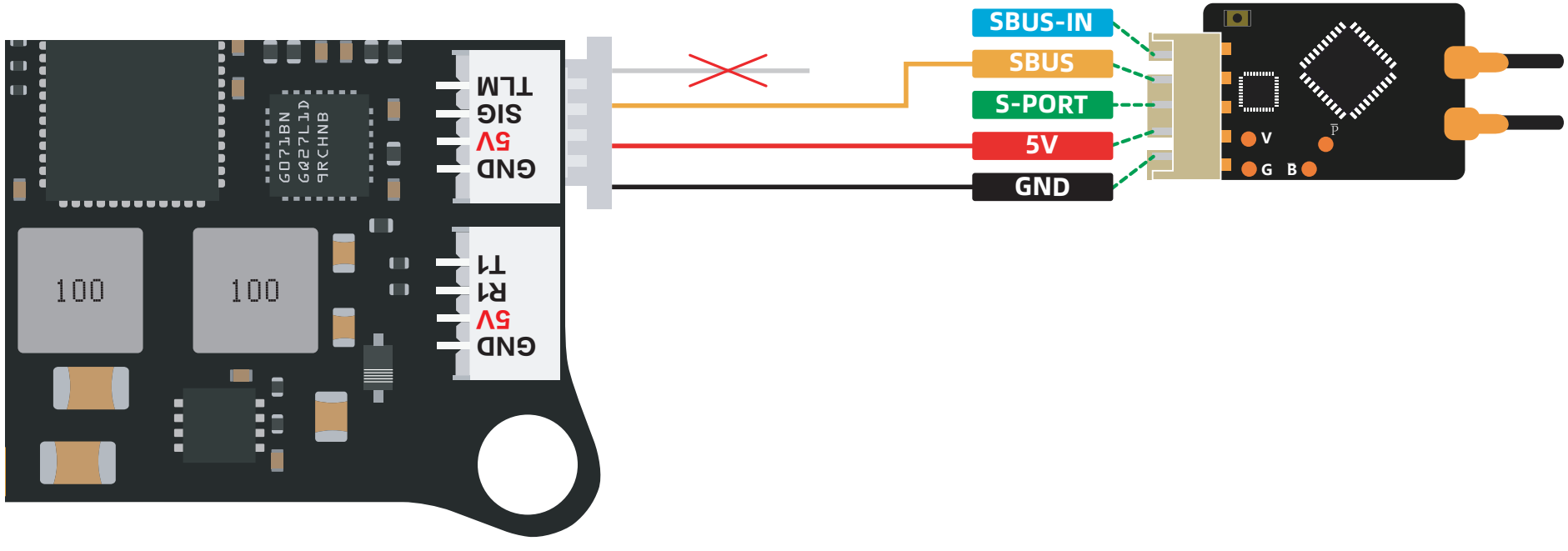
接收机：（TBS Nano RX/ELRS）



SETTINGS> FC STEUP

I2C OLED	DISABLED
BUZZER MODE	BOTH
RECEIVER →	CRSF

接收机：（SBUS）

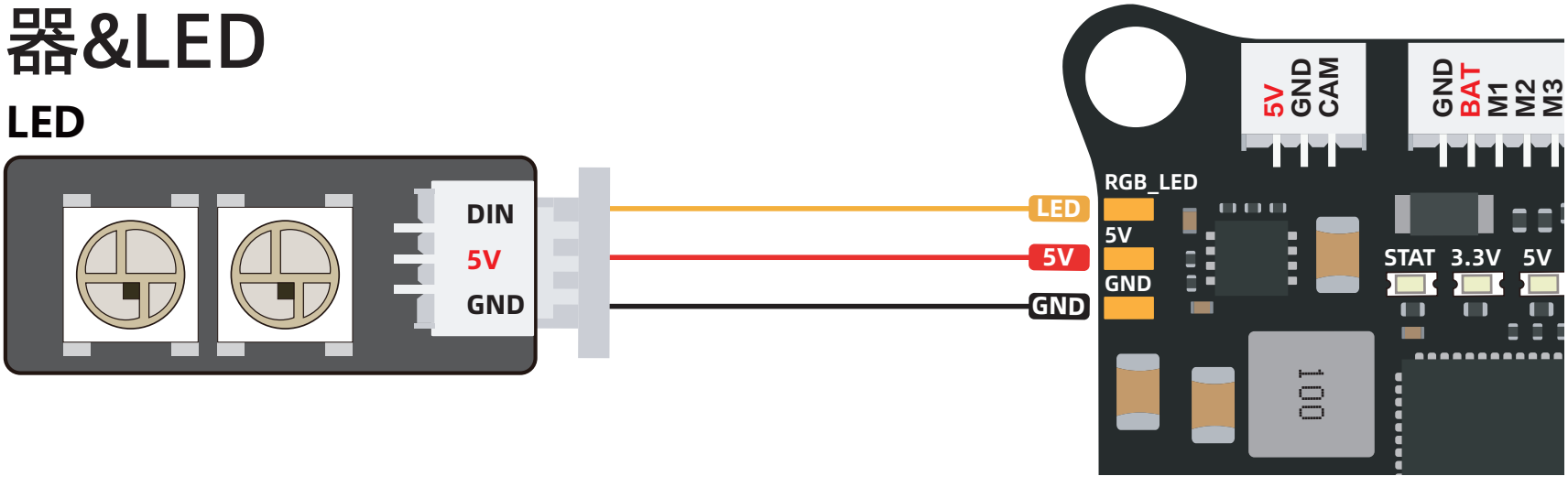


SETTINGS> FC STEUP

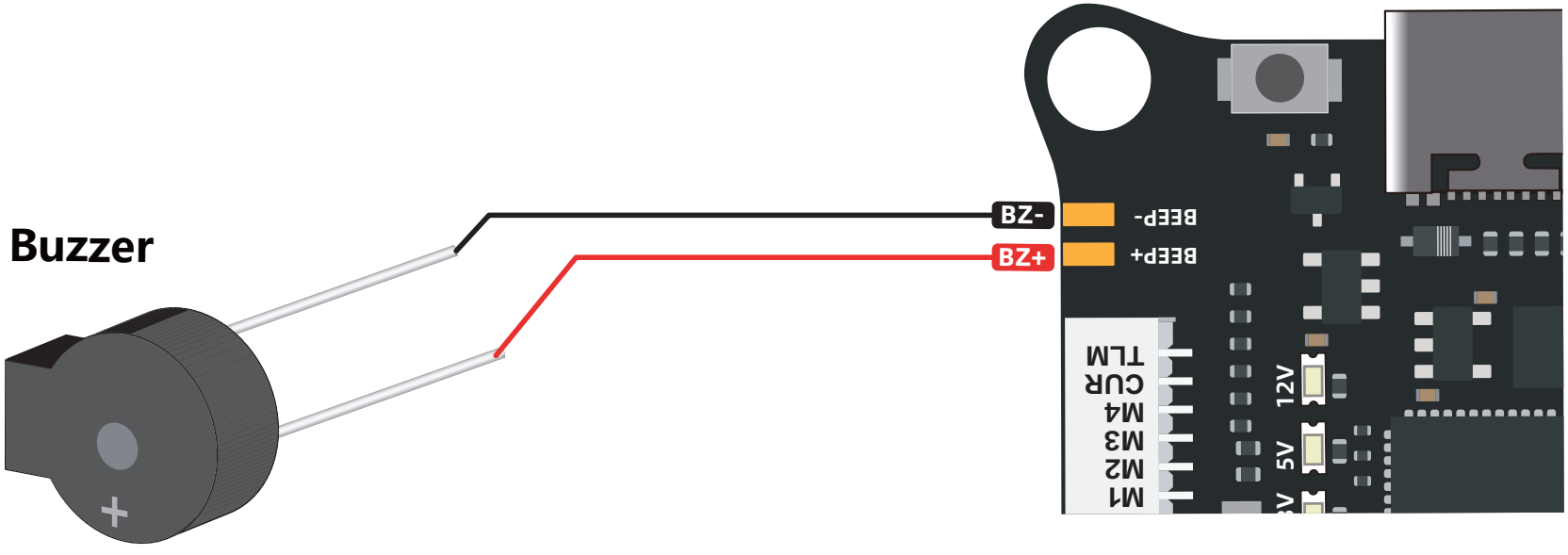
I2C OLED	DISABLED
BUZZER MODE	BOTH
RECEIVER - - - - - - - - - - - - - - - - →	SBUS

蜂鸣器&LED

LED



Buzzer



FC Info

Firmware:	FETTEC ALPHA
MCU:	STM32G473
GYRO:	ICM 42688-P
BlackBox:	NO
Baro:	NO
BEC:	5V@2A 9V@2A
Install Hole:	30.5x30.5mm(M4)
Input Voltage:	8.4-25.2V
Uart:	R1 T1 R3 T3
Receiver:	SIG TLM

ESC Info

Continuous Current:	50A
Burst Current:	55A
Support Battery:	2-6S LiPo
Support Firmware:	FETTEC
ESCProtocol:	DSHOT 150/300/600/ 1200/2400 FETTEC One Wire/S2M

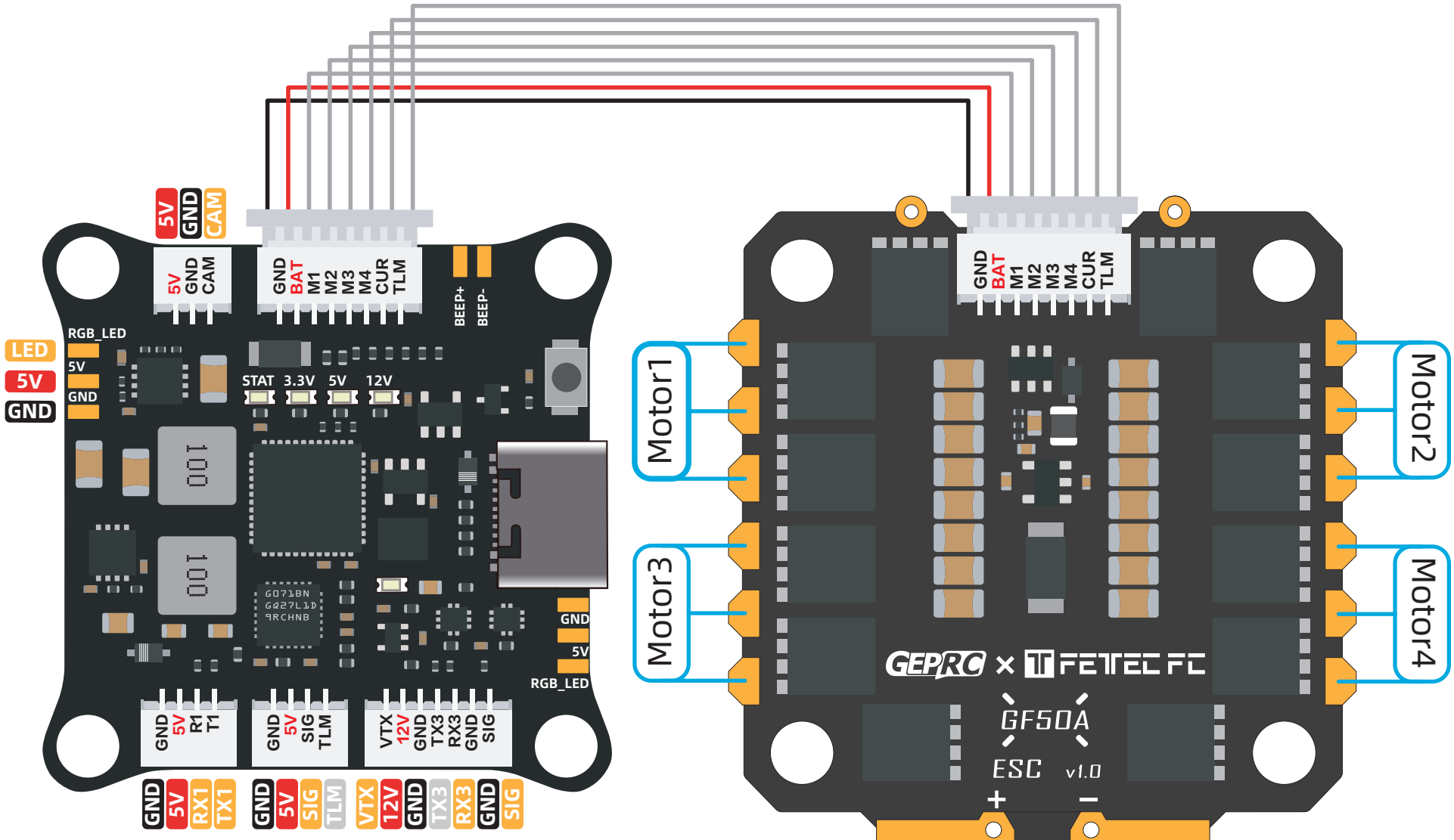
Functions

- Pre-set FETTEC firmware
- Built-in analogue OSD (STM32) with support for custom functions
- Real-time data display
  (voltage, motor speed, current, motor temperature, gyroscope attitude, link quality)
- Modular design for solder-free connections（SH1.0 interfaces）,
  The backside is also pre-populated with solder joints
- External LED Strip Interface available (WS2812B)

⚠ Safety warning

- Be sure to remove the propeller or disconnect the battery when flashing firmware or parameterizing the flight control.
- Please keep the flight controller with the latest version of firmware for a better experience.
- Whenever you make your first test flight after adjusting the flight control parameters, please be careful and keep a safe distance from the aircraft!
- Please stay away from crowds and fly safely.

Interface definition



⚠ CAUTION

The motor order of FETTEC ESC is different from BLHELI, if you need to change it, please go to **ESC+MOTOR SETUP → OUTPUT MAP** Adjust the mapped position of each motor here

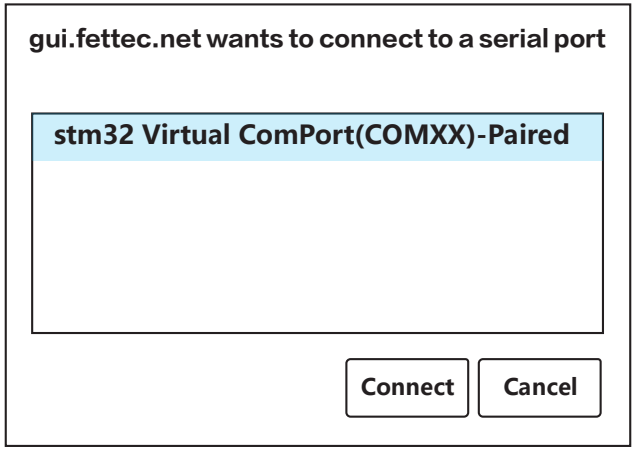
FETTEC Config

Open a browser on your computer and enter the URL: https://gui.fettec.net

Google Chrome or Microsoft Edge is recommended

ALPHA Configurator → Open port → stm32 Virtual Comport (COMXX) → Connect







DJI Digital System

SETTINGS> FC STEUP> SERIAL

MSP protocol ports for OSD

MSP PORT1 ----------> **SERIAL3**

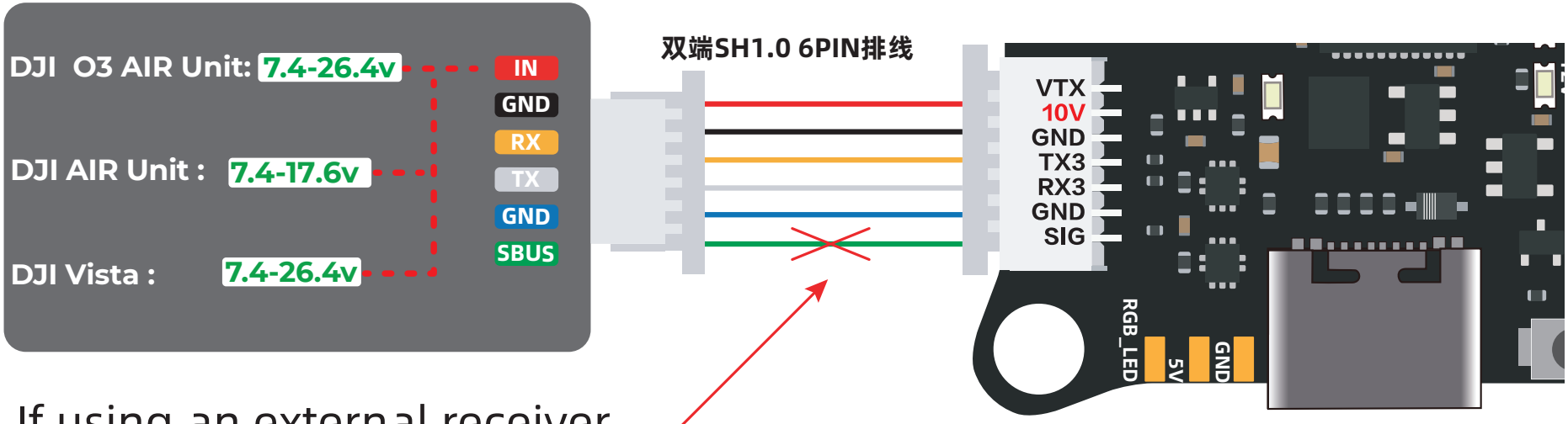
MSP PORT2

DISABLED

SERIAL1

→ **SERIAL3**

SERIAL4

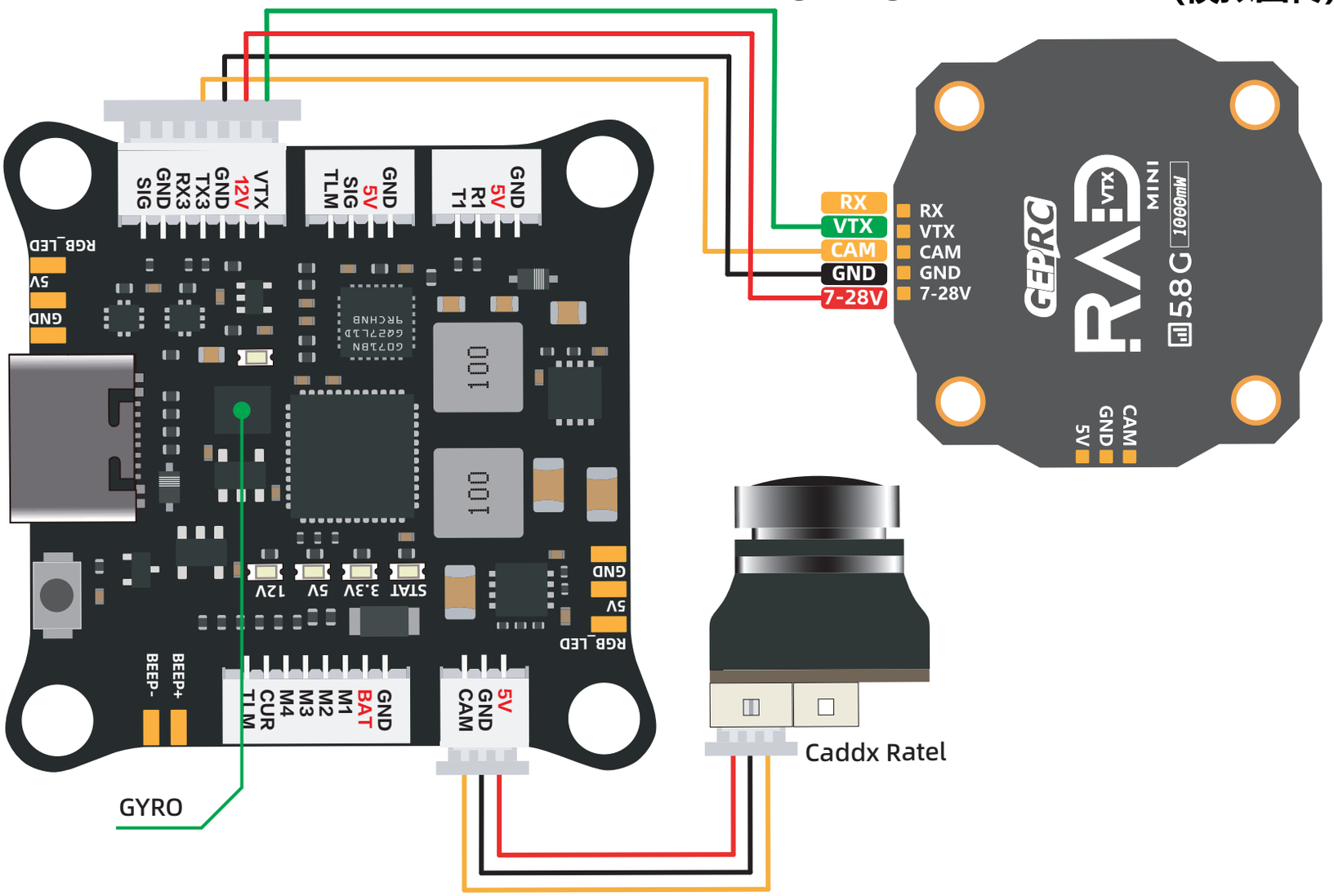


If using an external receiver, please disconnect this cable.

Analog VTX

Connection example.

GEPRC RAD MINI VTX(模拟图传)



SETTINGS > VTX SETUP

Video transmitter control signal setup

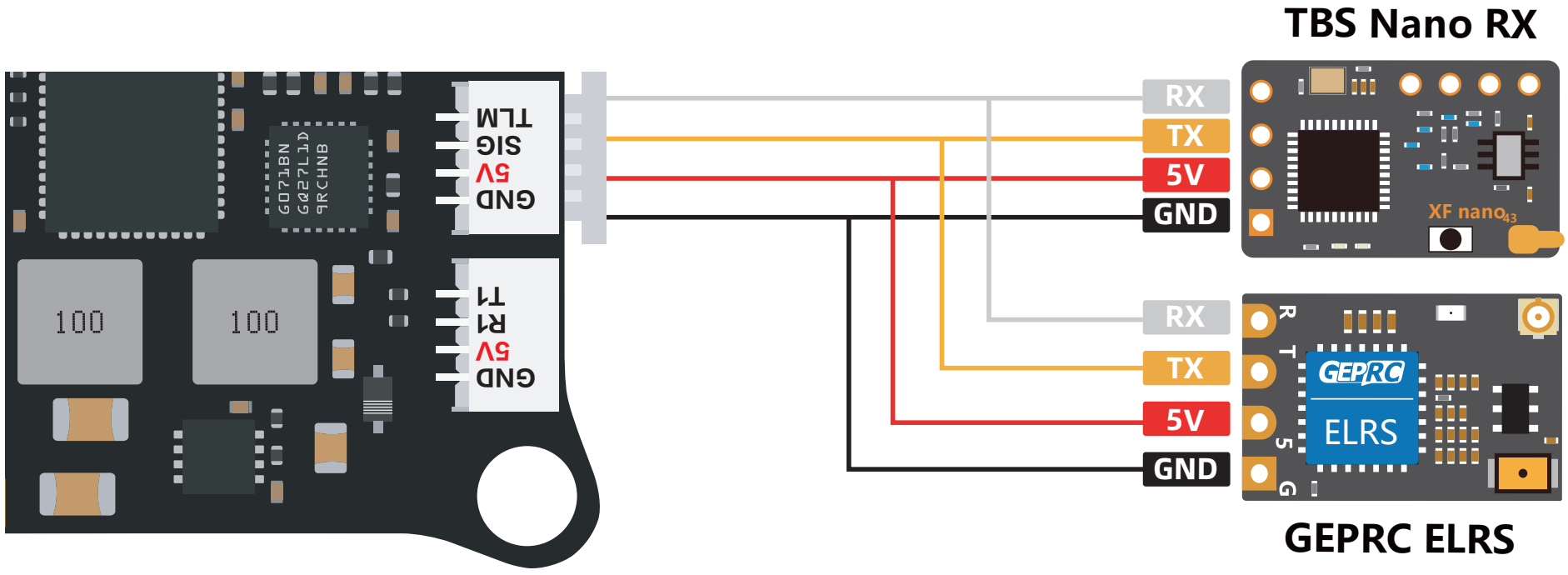
Control protocol:

Band:



Select your VTX communication protocol

Receiver: （TBS Nano RX/ELRS）

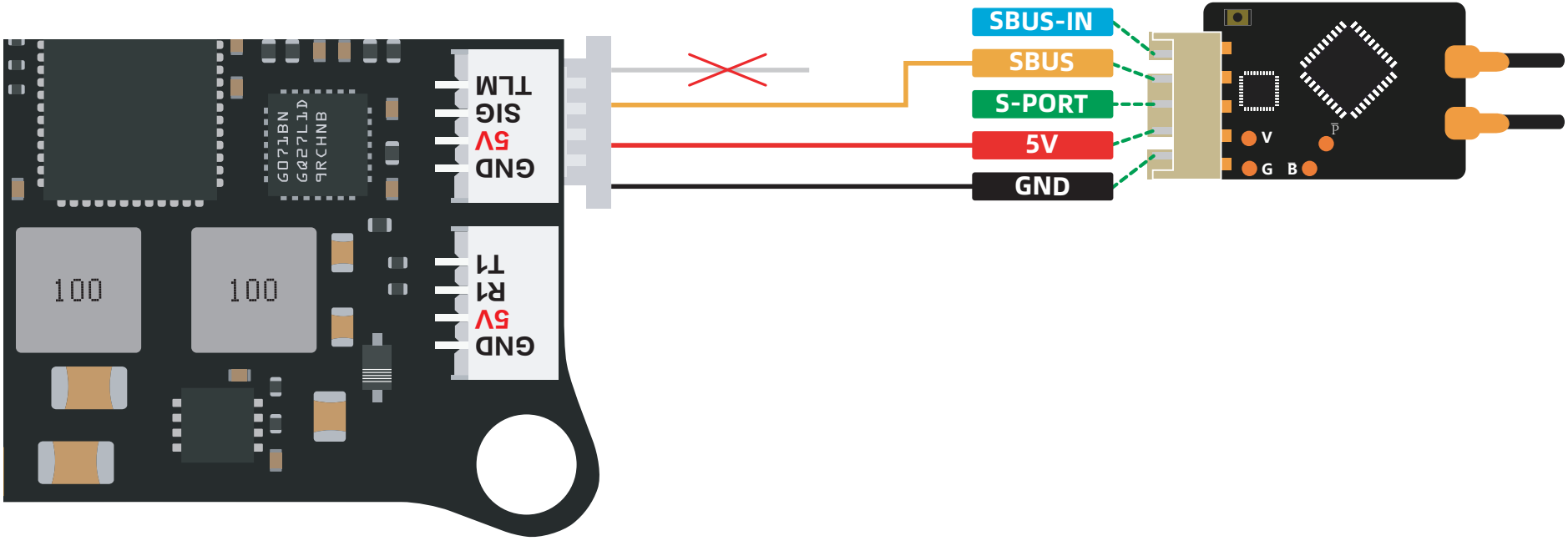


SETTINGS> FC STEUP

I2C OLED		DISABLED
BUZZER MODE		BOTH
RECEIVER	→	CRSF

Receiver: （SBUS）

FRSKY R-XSR

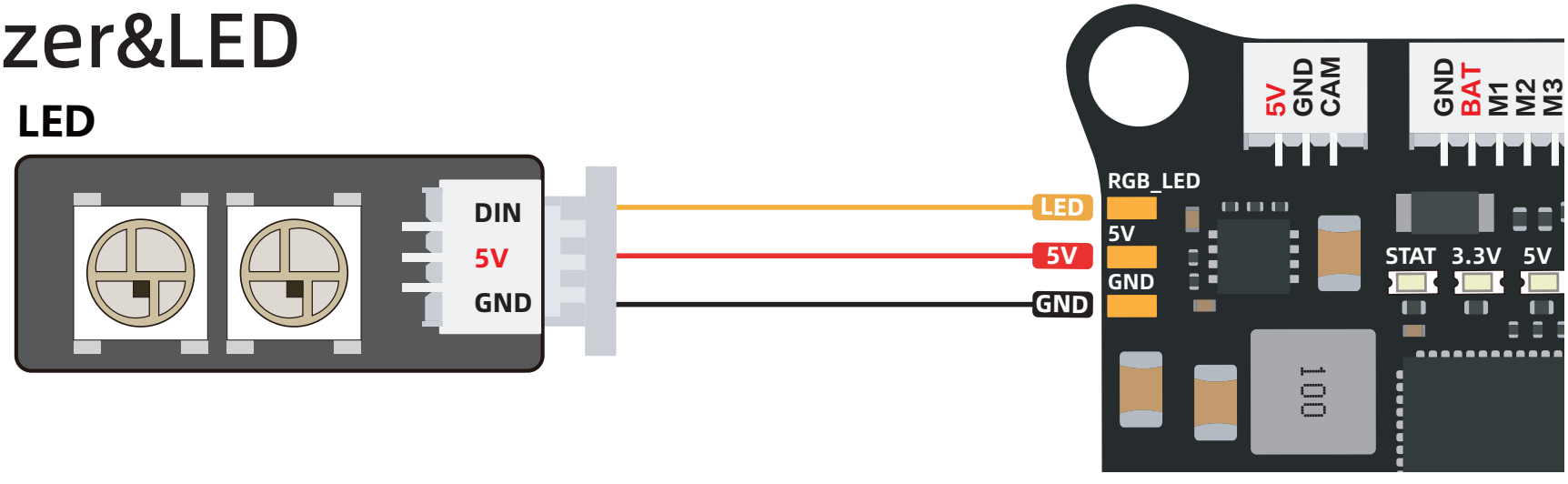


SETTINGS> FC STEUP

I2C OLED	DISABLED
BUZZER MODE	BOTH
RECEIVER - - - - - - - - - - - - - - - - →	SBUS

Buzzer&LED

LED



Buzzer

