

TAKER F722 SE/E55A SE Stack

GEPRC

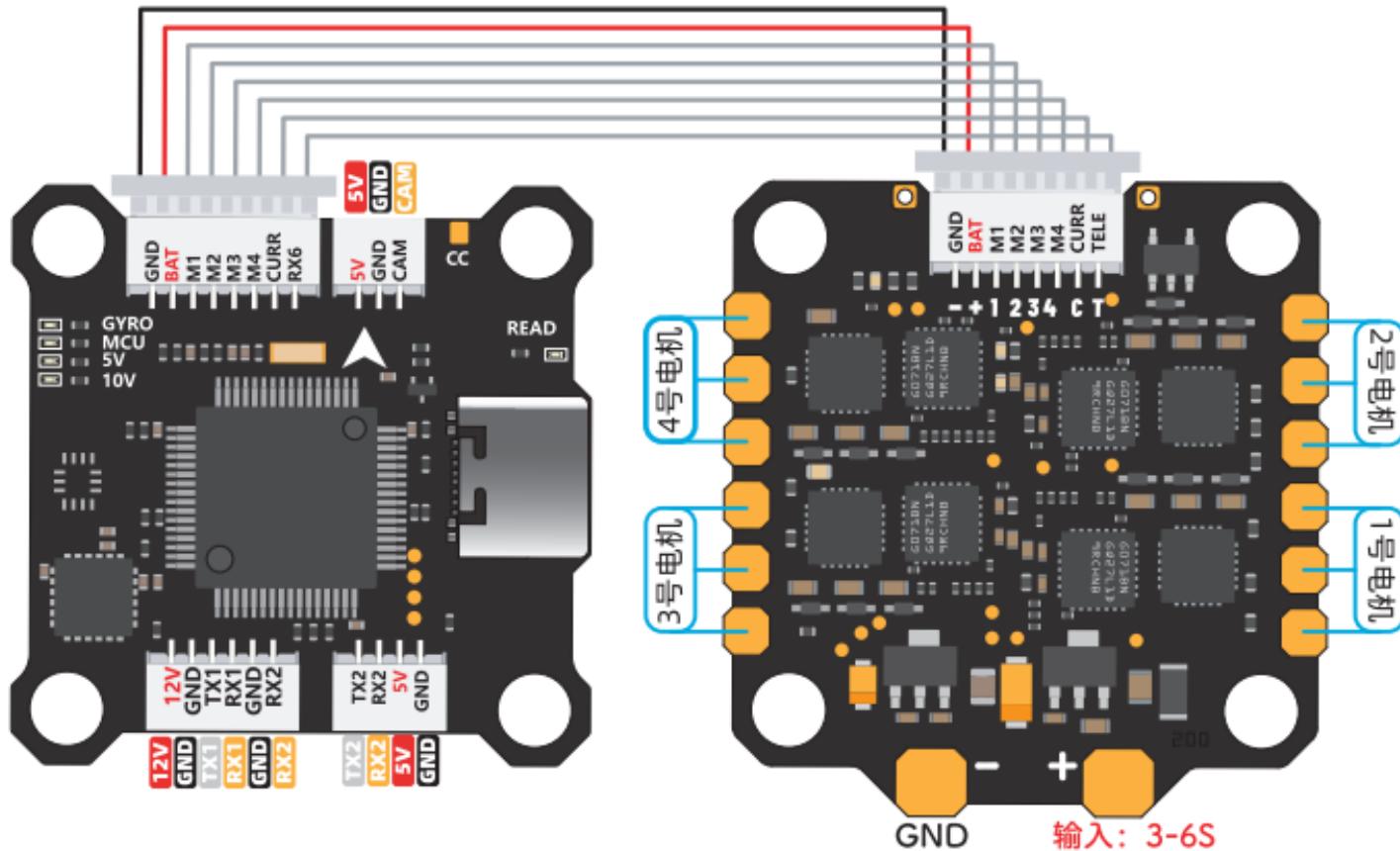
飞控参数

固件目标:	GEPRC TAKER F722SE								
主控:	STM32F722RET6								
陀螺仪:	MPU6000								
黑匣子:	32MB板载闪存								
气压计:	NO								
BEC:	5V@2.5A 10V@2A								
安装孔位:	25.5*25.5 φ4.05mm								
输入电压:	3-6S LiPo								
Uart串口:	<table><tr><td>TX1</td><td>RX1</td><td>TX2</td><td>RX2</td></tr><tr><td>TX3</td><td>RX3</td><td>TX5</td><td>RX5 RX6</td></tr></table>	TX1	RX1	TX2	RX2	TX3	RX3	TX5	RX5 RX6
TX1	RX1	TX2	RX2						
TX3	RX3	TX5	RX5 RX6						

电调参数

固件目标:	ST_G0_05
主控:	STM32G071GBU6
持续电流:	55A
瞬间电流:	60A(5S)
支持电池:	3-6s (12.6-26.1V)

接口定义：



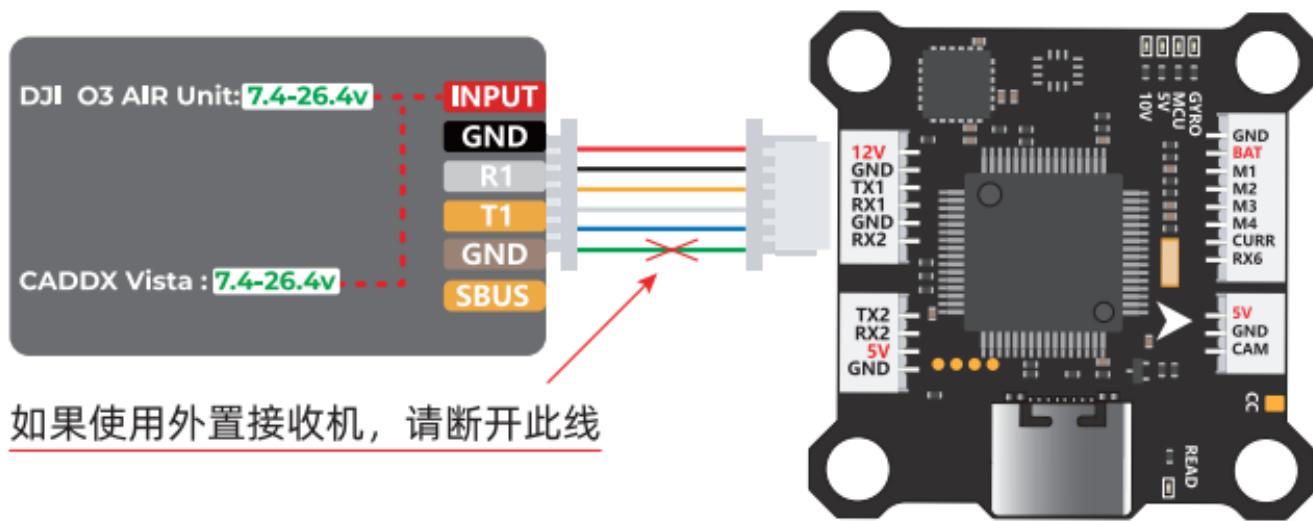
DJI数字图传：

标识符	设置/MSP	串行数字接收机
USB VCP	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>
UART1	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>
UART2	<input type="checkbox"/> 115200 ▾	<input checked="" type="checkbox"/>

接收机

Serial (Via UART) 接收机模式
注意: 使用串行接收机时, 请选择串口接收机类型, 并在串口页面设置相应的串口。

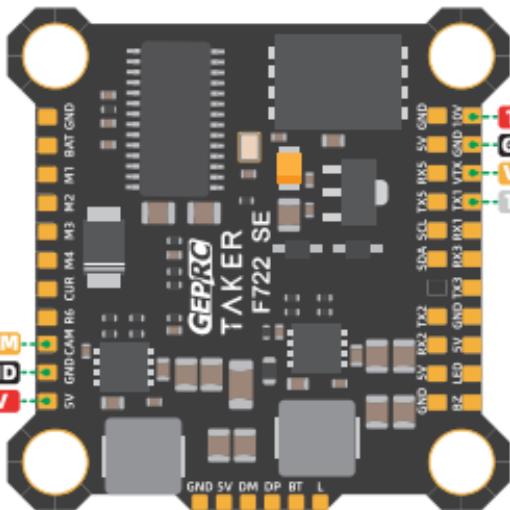
SBUS 串行数字接收机协议



模拟图传：



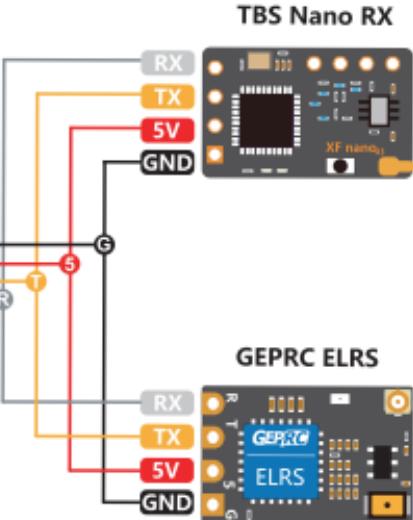
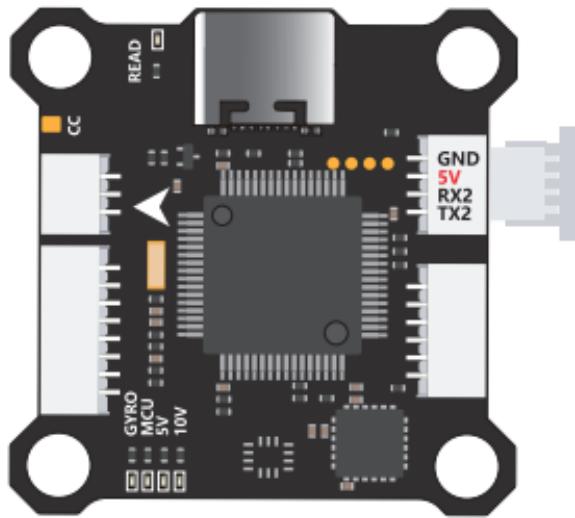
Caddx Ratel



GERPC RAD MINI VTX

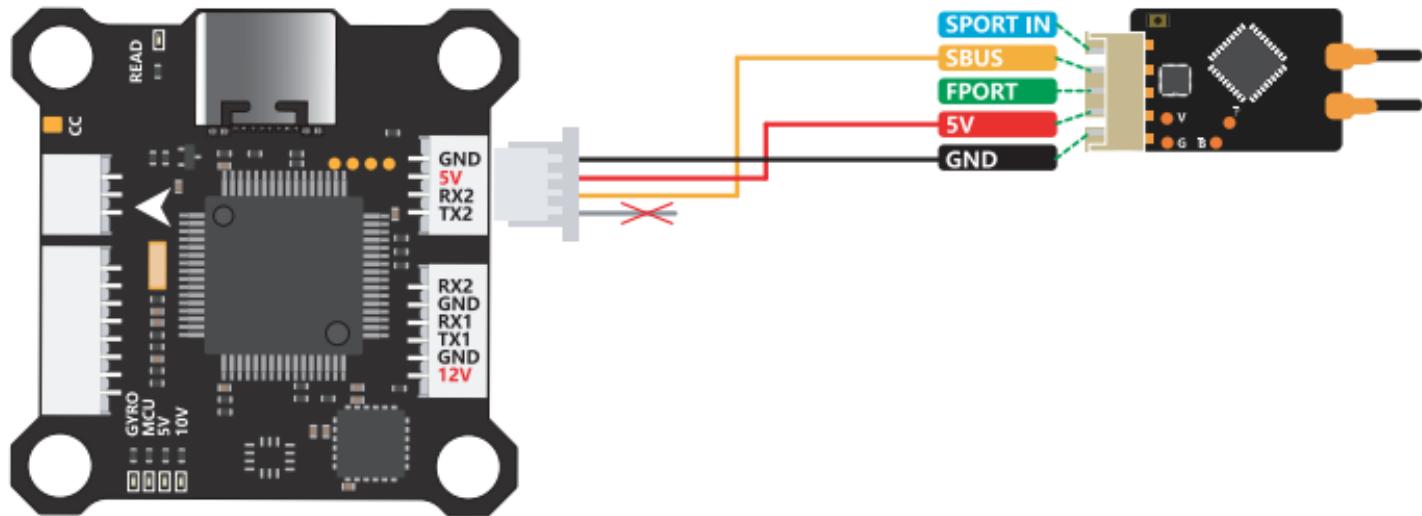
标识符	设置/MSP	外设
USB VCP	<input checked="" type="checkbox"/> 115200	已禁用 AUTO
UART1	<input checked="" type="checkbox"/> 115200	VTX(IRC Tramp) AUTO
UART2	<input checked="" type="checkbox"/> 115200	已禁用 AUTO

接收机：(TBS Nano RX/ELRS)



设置	标识符	设置/MSP	串行数字接收机	接收机
端口	USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>	Serial(via UART) Receiver Mode
配置	UART1	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>	注意：使用串行接收机时，请选择串口接收机类型，并在串口页面设置相应的串口
动力&电池	UART2	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>	CRSF 串行数字接收机协议

接收机：(Frsky R-xsr)



设置	标识符	设置/MSP	串行数字接收机
端口	USB VCP	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>
配置	UART1	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>
动力电池	UART2	<input type="checkbox"/> 115200 ▾	<input checked="" type="checkbox"/>
失控保护			

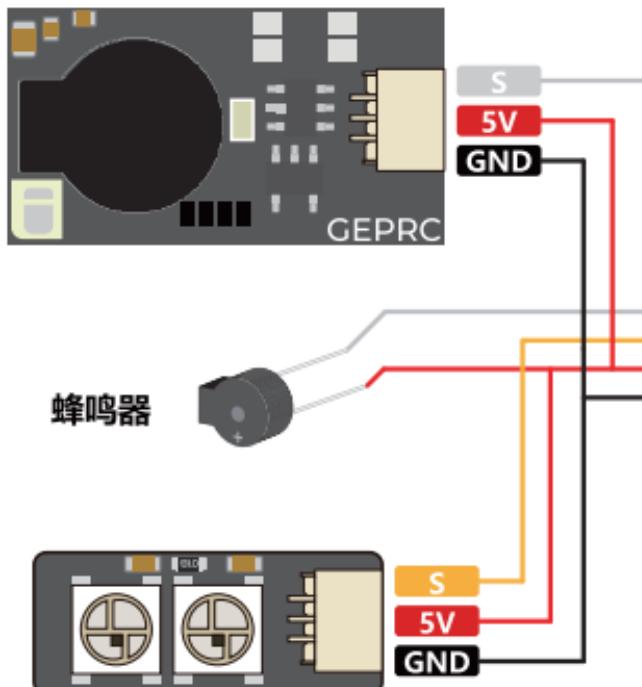
接收机	Receiver Mode
串行接收机 (通过UART)	<input type="checkbox"/> Receiver Mode
必须将接收机对应的UART设置为“数字串行接收机”(在端口页面) 从下拉列表中选择正确的数据格式，如下：	
<input type="checkbox"/> SBUS Serial Receiver Provider	

GPS:

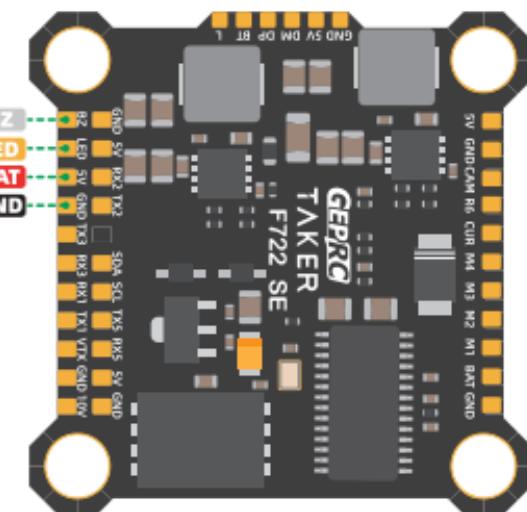


蜂鸣器&LED：

GEPRC 超级蜂鸣器



LED灯带



外置LED设置：

设置

端口

配置

动力&电池

失控保护

其他功能

SERVO_TILT 舵机云台

SOFTSERIAL 启用软串口

SONAR 声呐

TELEMETRY 遥测输出

LED_STRIP 彩色RGB LED灯带

电机

图传

LED设置

传感器

日志

LED Strip Wiring

布线模式

清除已选定

清除所有布线

给每个LED选择一个颜色

LED 功能

基本功能 颜色

颜色修改器 油门

闪烁 持续闪烁

左右扫描

叠加功能

警告

指示灯

图传 (根据图传频率而变化)

LED方向 ('模式和方向') 和颜色

北

西

东

南

上

下

0 1 2 3

4 5 6 7

8 9 10 11

12 13 14 15

注意事项：

- 1 3寸及3寸以上的飞行器需要安装电容，包装内附带了一颗
- 2 焊接的电线尽量避开陀螺仪，以免影响陀螺仪正常工作
- 3 装机后请仔细检查连线是否正确，保持飞控整体干净 无多余焊锡残留

格普官方QQ群：499699918

格普官方微信：



wechat

格普淘宝：



geprc.taobao.com

格普官网：



www.geprc.com

TAKER F722 SE/E55A SE Stack

GEPRC

FC:

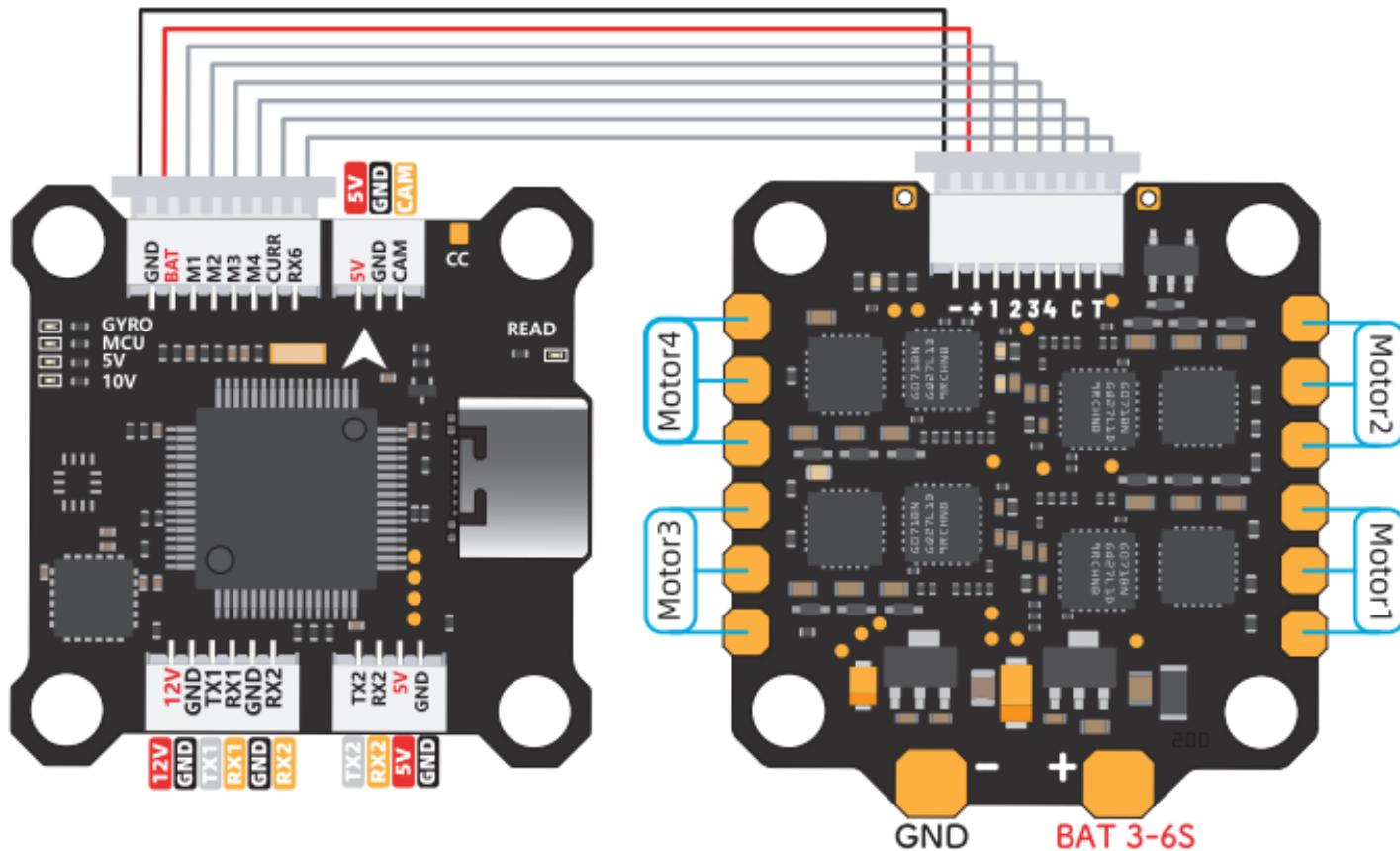
Target:	GEPRC TAKER F722SE
MCU:	STM32G473CEU6
IMU:	MPU6000
BLACKBOX:	32MB
Baro:	NO
BEC:	5V 2.5A 10V 2A
Install hole:	25.5X25.5 φ4.05mm
Input Voltage:	3-6S LiPo

TX1 RX1 TX2 RX2
TX3 RX3 TX5 RX5 RX6

ESC:

Target:	ST_G0_05
MCU:	STM32G071GBU6
Continuous Current:	55A
Burst Current:	60A(5S)
Input Voltage:	3-6s (12.6-26.1V)

Interface definition:



DJI FPV Digital System:

Identifier	Configuration/MSP	Serial RX
USB VCP	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>
UART1	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>
UART2	<input type="checkbox"/> 115200 ▾	<input checked="" type="checkbox"/>

Receiver

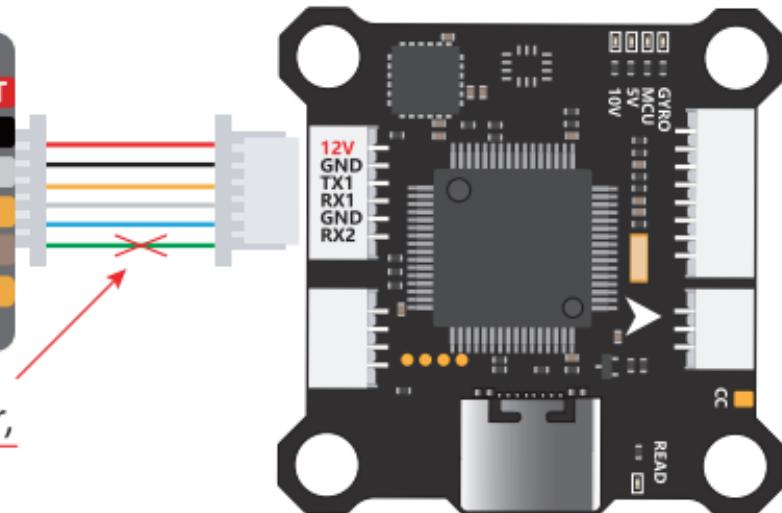
Serial (Via UART) Receiver Mode

The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)
Select the correct data format from the drop-down, below:

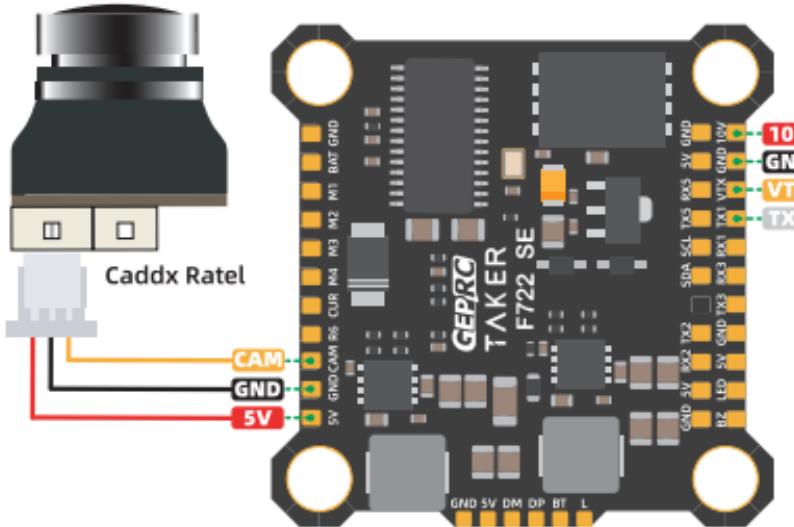
SBUS Serial Receiver Provider



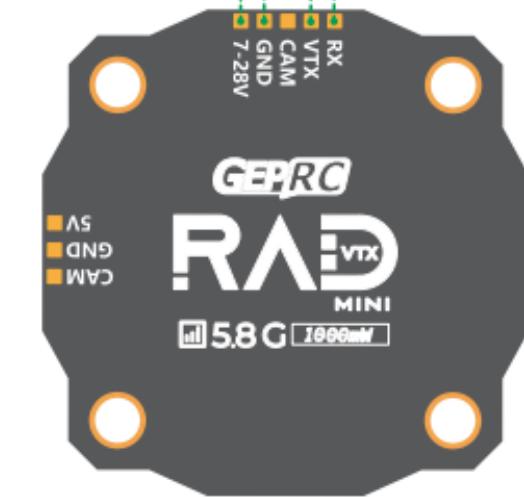
If using an external receiver,
disconnect this line



Analog VTX:

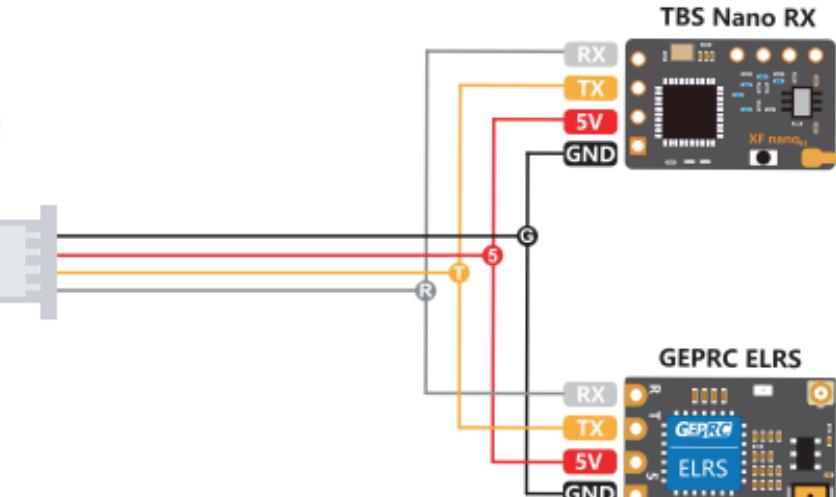
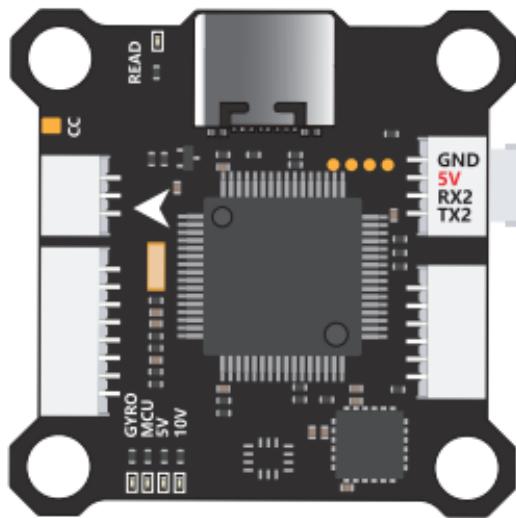


Identifier	Configuration/MSP	Peripherals
USB VCP	<input type="checkbox"/> 115200	Disabled AUTO
UART1	<input type="checkbox"/> 115200	VTX(IRC Tramp) AUTO
UART2	<input type="checkbox"/> 115200	Disabled AUTO



GEPiRC RAD MINI VTX

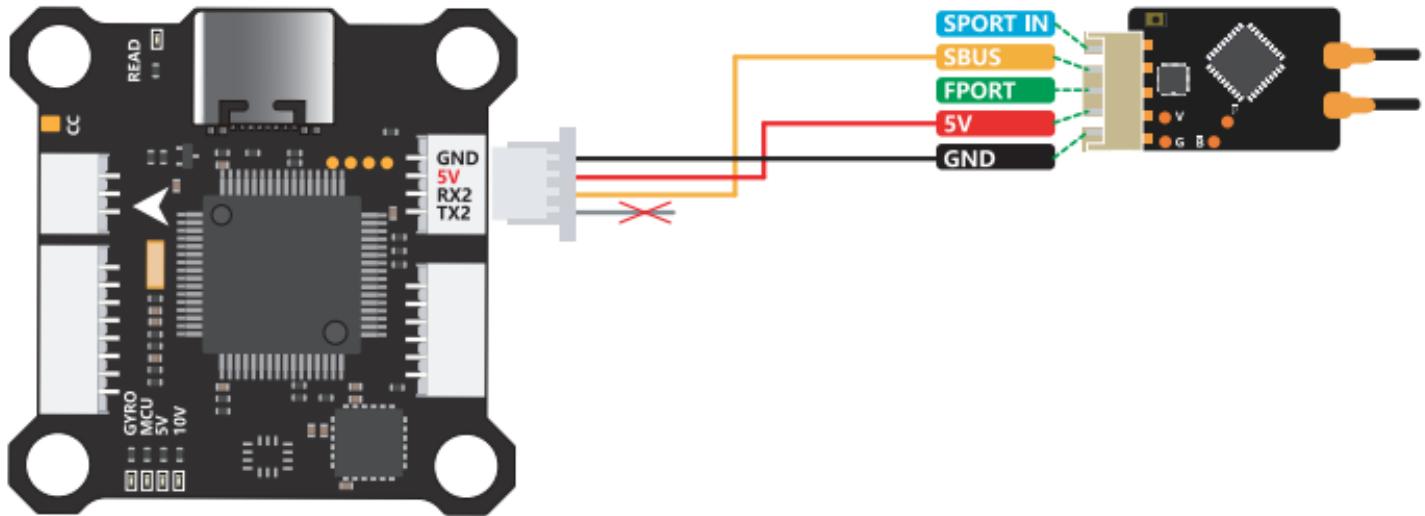
Receiver: (TBS Nano RX/ELRS)



Setup	Identifier	Configuration/MSP	Serial RX
Ports	USB VCP	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>
Configuration	UART1	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>
Power&Battery	UART2	<input checked="" type="checkbox"/> 115200 ▾	<input checked="" type="checkbox"/>
Failsafe			

Receiver	Receiver Mode
Serial(via UART)	<input type="button" value="Receiver Mode"/>
•The UART for the receiver must be set to 'Serial Rx' in the Ports tab) •Select the correct data format from the drop-down, below:	
CRSF	<input type="button" value="Serial Receiver Provider"/>

Receiver: (Frsky R-xsr)



Setup	Identifier	Configuration/MSP	Serial RX
Ports	USB VCP	<input type="button"/> 115200 ▾	<input type="button"/>
Configuration	UART1	<input type="button"/> 115200 ▾	<input type="button"/>
Power&Battery	UART2	<input type="button"/> 115200 ▾	<input checked="" type="button"/>
Failsafe			

Receiver

Receiver Mode

The UART for the receiver must be set to 'Serial Rx'(in the Ports tab)
Select the correct data format from the drop-down,below:

Serial Receiver Provider

GPS:

Setup
Ports
Configuration
Power&Battery
Failsafe

Configuration
Power&Battery

GPS
Motor
OSD

Configuration
Power&Battery

Identifier	Sensor Input
USB VCP	Disabled AUTO
UART1	Disabled AUTO
UART2	Disabled AUTO
UART5	GPS 115200

Other Features

GPS

GPS Configuration

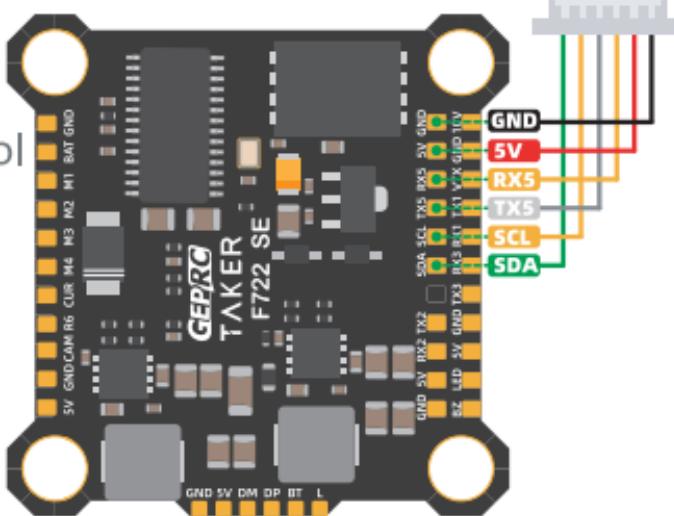
UBLOX Protocol

Auto Baud

Auto Config

System Configuration

Magnetometer



GEP-M8Q

GNSS: GPS+BDS
Magnetometer: QMC5883L
Barometer: MS5611
Input: 3.3V-5V
Rate: 115200bps
Protocol: UBLOX(GPS),I2C(Mag&Baro)
MAG Alignment: CW 180° flip

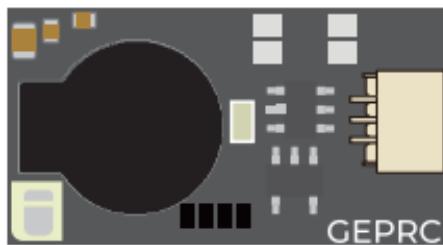
GEPRC

The diagram shows the GEP-M8Q flight controller board with its various components and connection points. A separate GPS module is connected to the F722 SE board. The connections are as follows:

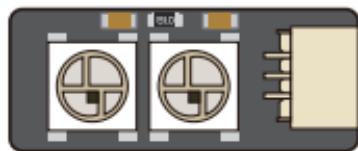
- GND: GND
- 5V: 5V
- RX5: RX5
- TX5: TX5
- SCL: SCL
- SDA: SDA

Buzzer&LED:

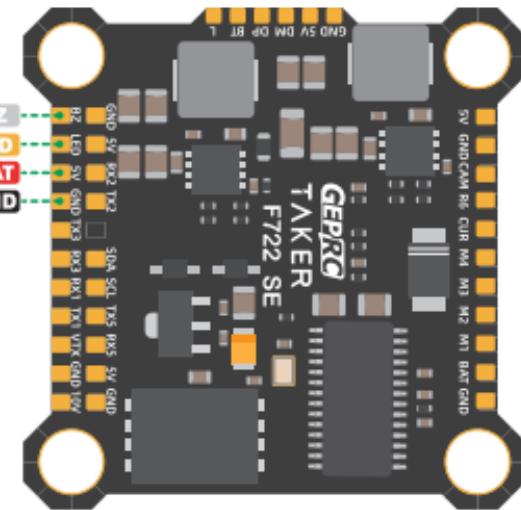
GEPRC Super Buzzer



Buzzer



LED



LED Setup:

Steup

Ports

Configuration

Power&Battery

Failsafe

Motors

VideoTransmitter

LED Strip

Sensors

Tethered Logging

Other Features

SERVO_TILT

SOFTSERIAL

SONAR

TELEMETRY

LED_STRIP

Servo gimbal

Enable CPU based serial ports
sonar

Telemetry output

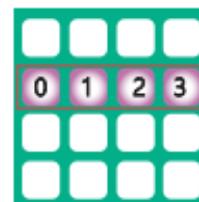
Multi-color RGB LED strip support

LED Strip Wiring

Wire Ordering Mode

Clear selected

Clear ALL Wiring



Choose a color for each LED

LED Functions

Function

Color modifier

Blink

Blink always

Larson scanner

Overlay

Warnings

Indicator

VTX (uses vtx frequency to assign color)

LED Orientation ('Modes&Orientation') and Color

N

W

S

U

E

D



CAUTION:

- 1 Aircraft of 3 inches or more need to install a capacitor, which is included in the package
 - 2 All wires should try to avoid the gyroscope, so as not to affect the normal work of the gyroscope
 - 3 After soldering, please check that all connections are correct to avoid damage after power-on.
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