

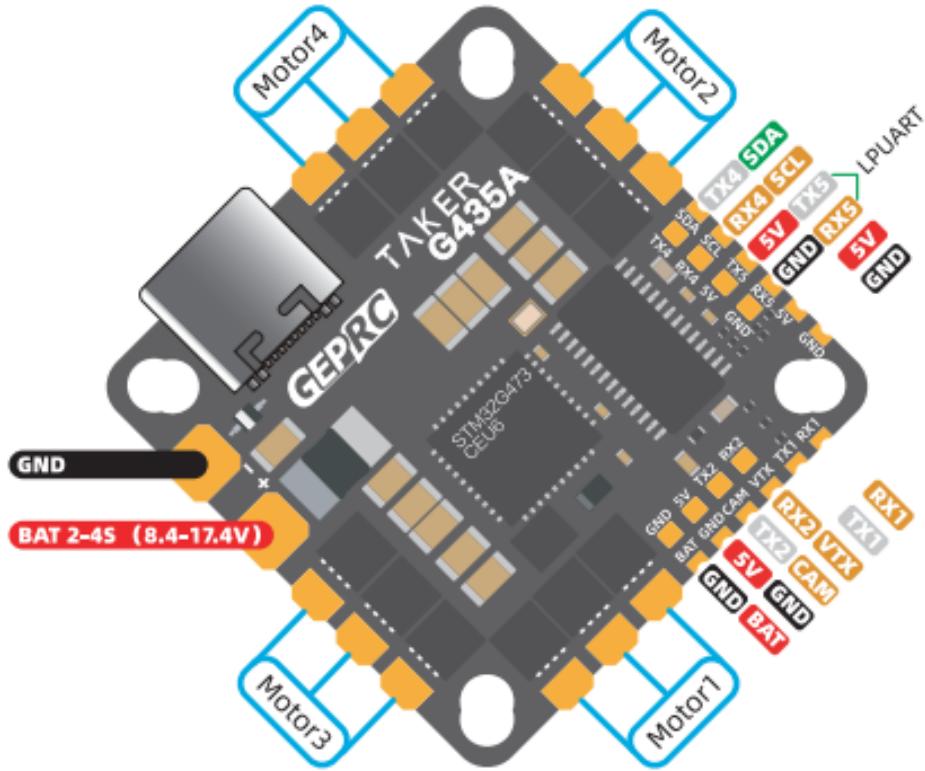
## 飞控参数

固件目标:	TAKERG4AIO
主控:	STM32G473CEU6
陀螺仪:	ICM 42688-P
黑匣子:	16MB板载闪存
气压计:	NO
BEC 5V:	3A
最大外尺寸:	33.4*34.4, φ3.05mm
安装孔位:	25.5*25.5、26.5*26.5兼容
输入电压:	2-4S
Uart串口:	4个

## 电调参数

持续电流:	35A
瞬间电流:	45A(5S)
支持电池:	2-4s (8.4-17.4V)
支持固件:	<a href="#">BLHeli_S</a> <a href="#">Bluejay</a>

## 接口定义：



# DJI数字图传：

设置

端口

配置

动力&电池

失控保护

PID 调校

接收机

模式

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

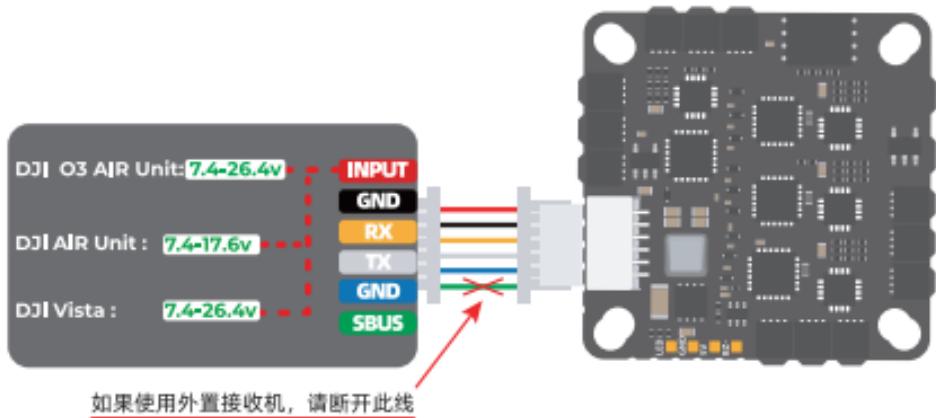
接收机

Serial (Via UART)

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。

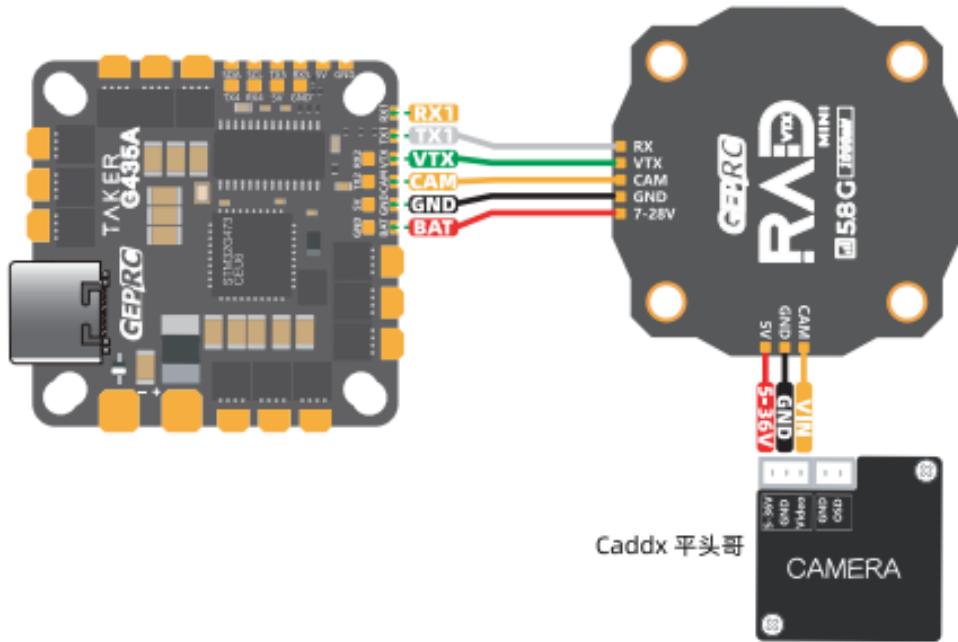
SBUS

串行数字接收机协议



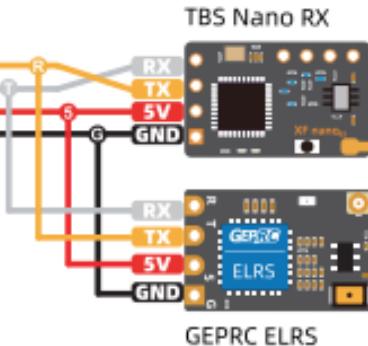
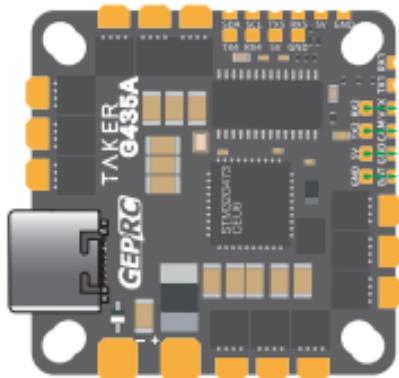
# 模拟图传：

GERPC RAD MINI VTX



设置	标识符	设置/MSP	外设
端口	USB VCP	<input checked="" type="checkbox"/> 115200	已禁用 AUTO
配置	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
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"/> 415200	<input checked="" type="checkbox"/>

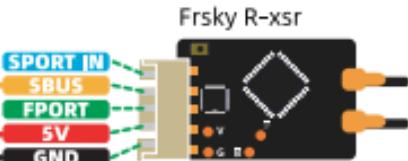
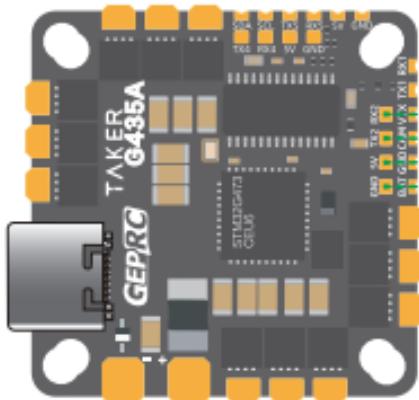
接收机

Serial[via UART] 接收机模式

注意：使用串行接收机时，请选择串行接收机类型，并在串口页面设置相应的串口

CRSF 串行数字接收机协议

# 接收机：(Frsky R-xsr)



设置
端口
配置
动力&电池
失控保护

标识符	设置/MSP	串行数字接收机
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"/>

PID 调校
接收机
模式

接收机

Serial(via UART) 接收机模式

注意：使用串行接收机时，请选择串行接收机类型，并在串口页面设置相应的串口

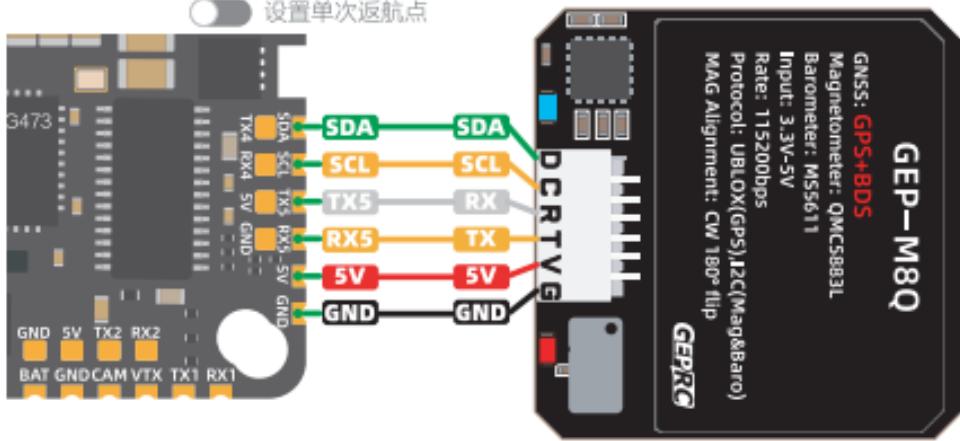
SBUS 串行数字接收机协议

# GPS:

设置	标识符	传感器输入
端口	USB VCP	已禁用 AUTO
配置	UART1	已禁用 AUTO
动力&电池	UART2	已禁用 AUTO
失控保护	LPUART	GPS 115200

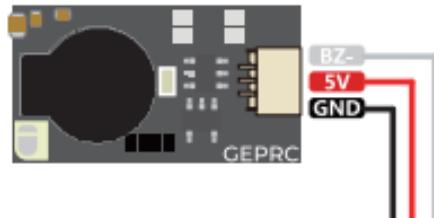
  

设置	GPS	启用GPS导航
端口	UBLOX	协议
配置	<input checked="" type="radio"/>	自动波特率
动力&电池	<input checked="" type="radio"/>	自动设置
失控保护	<input checked="" type="radio"/>	设置单次返航点

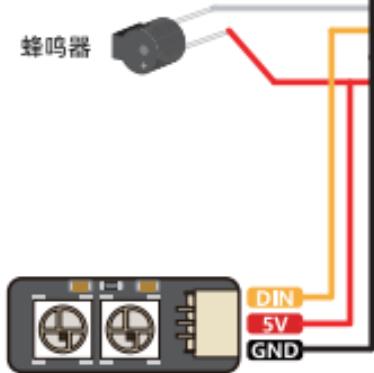


## 蜂鸣器&LED：

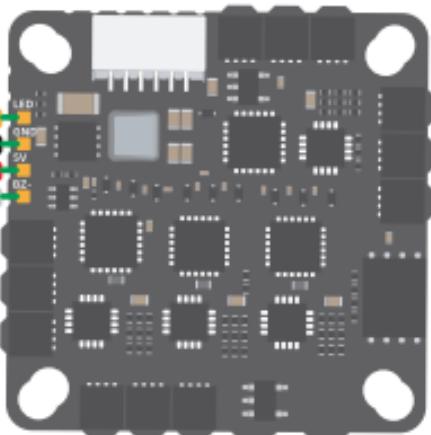
GEPRC 超级蜂鸣器



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
TELEMTRY	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灯带布线

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 叠加功能

LED功能

基本功能 颜色 闪烁 持续闪烁  
颜色修改器 油门 左右扫描  
警告 指示灯 面传 (根据图传频率而变化)  
LED方向 ('模式和方向') 和颜色

北 上 西 东 南 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

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wechat

格普淘宝：



geprc.taobao.com

格普官网：



www.geprc.com

## FC:

target: TAKERG4AIO

MCU: STM32G473CEU6

IMU: ICM 42688-P

BLACKBOX: 16MB

Baro: NO

BEC: 5V 3A

Size: 33.4\*34.4,

Install hole: 25.5-26.5 φ3.05mm

Input Voltage: 2-4S LiPo

Uart: 4 Set

## ESC:

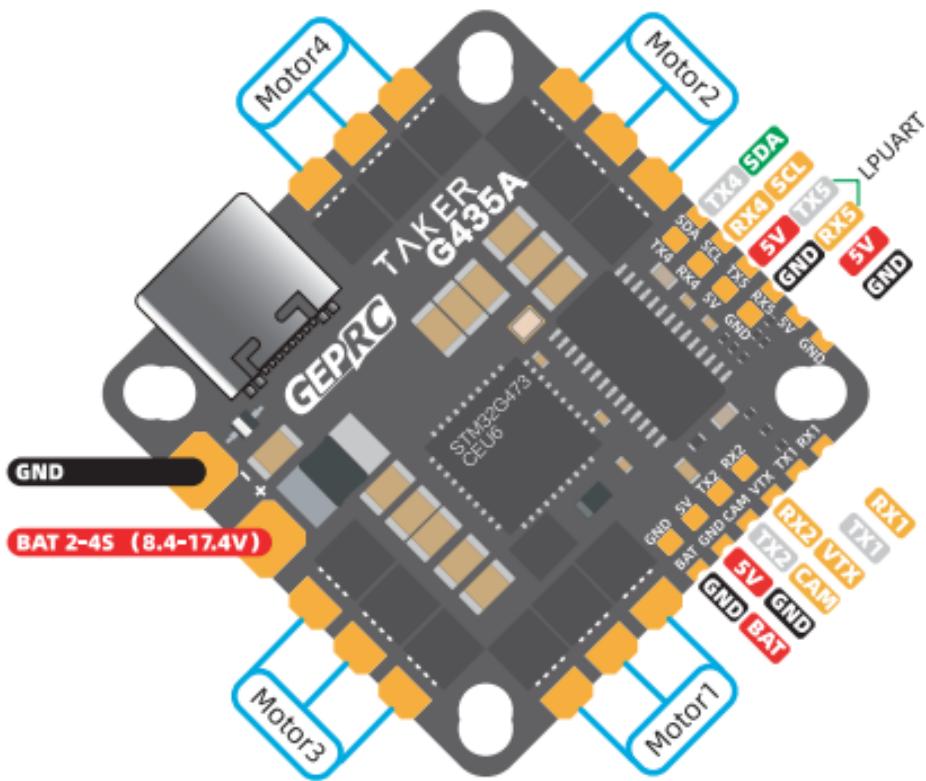
Continuous Current: 35A

Burst Current: 45A(5S)

Input Voltage: 2-4S (7.4-17.4V)

Support Firmwar: [BLHeli\\_S](#)  
[Bluejay](#)

## Interface definition:



# DJI FPV Digital System:

Setup  
Ports  
Configuration  
Power&Battery  
Failsafe

PID  
Receiver  
Modes

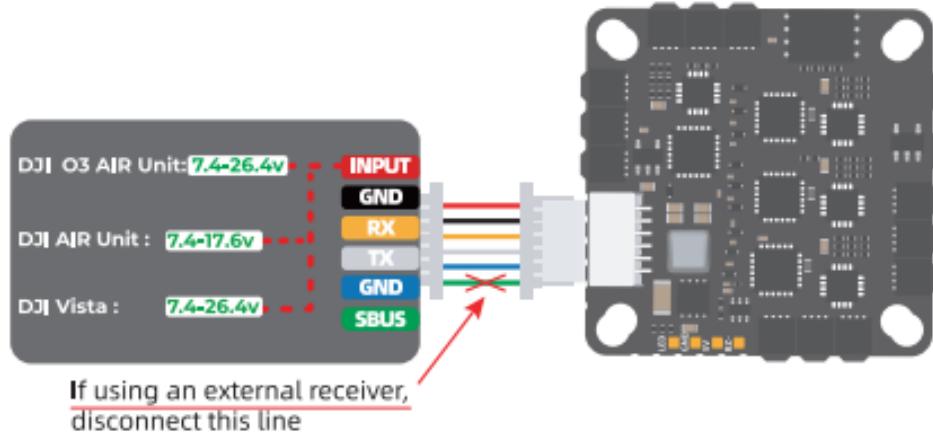
Identifier	Configuration/MSP	Serial RX
USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>
UART1	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>
UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>

Receiver

Serial (Via UART) Receiver Mode

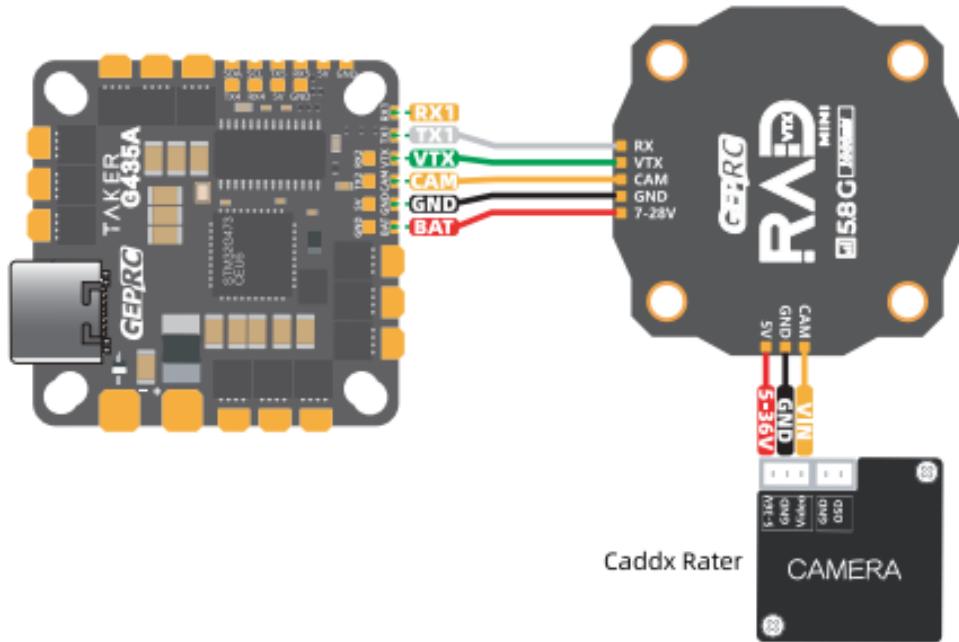
The UART for the receiver must be set to 'Serial Rx'(in the Ports tab)  
Select the correct data format from the drop-down, below:

SBUS Serial Receiver Provider



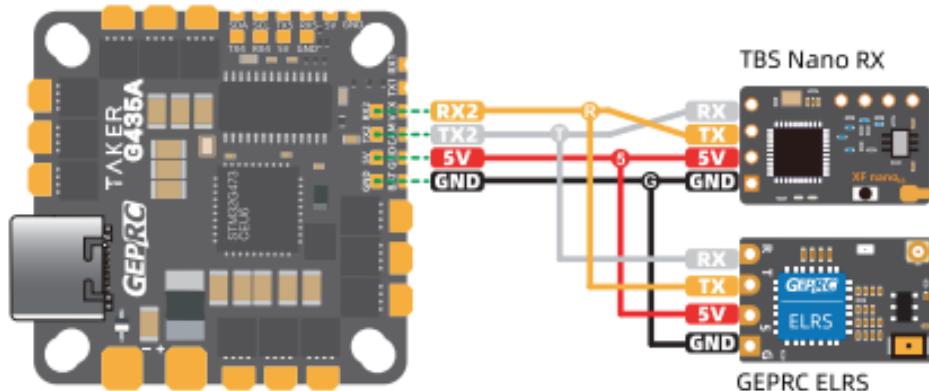
# Analog VTX:

GERPC RAD MINI VTX



Setup	Identifier	Configuration/MSP	Peripherals
Ports	USB VCP	<input type="button" value="115200"/> 115200	Disabled AUTO
Configuration	UART1	<input type="button" value="115200"/> 115200	VTX(JIRC Tramp) AUTO
	UART2	<input type="button" value="115200"/> 115200	Disabled AUTO

# Receiver: (TBS Nano RX/ELRS)



Setup
Ports
Configuration
Power&Battery
Failsafe

Identifier	Configuration/MSP	Receiver
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"/>

PID
Receiver
Modes

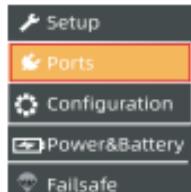
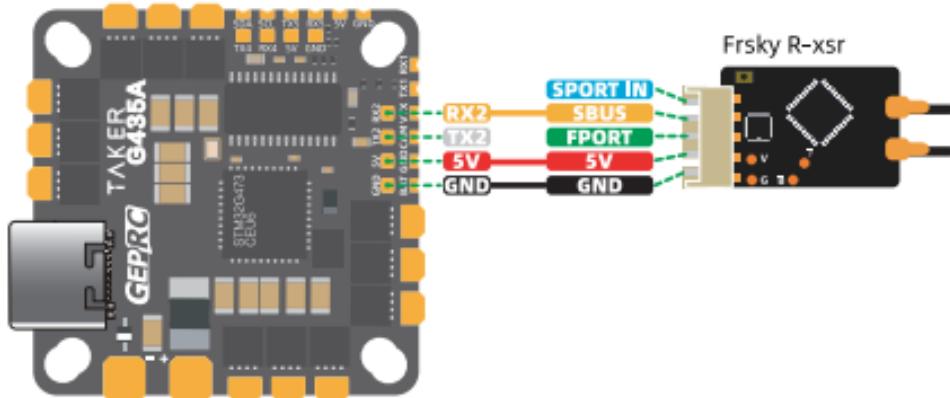
Receiver

Serial(via UART) Receiver Mode

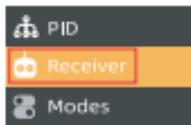
The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)  
Select the correct data format from the drop-down, below:

CRSF Serial Receiver Provider

# Receiver: (Frsky R-xsr)



Identifier	Configuration/MSP	Receiver
USB VCP	<input type="checkbox"/> 115200	<input type="checkbox"/>
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>
UART2	<input type="checkbox"/> 415200	<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

# GPS:

	Identifier	Sensor Input
Ports	USB VCP	Disabled AUTO
Configuration	UART1	Disabled AUTO
Power&Battery	UART2	Disabled AUTO
Failsafe	LPUART	GPS 115200

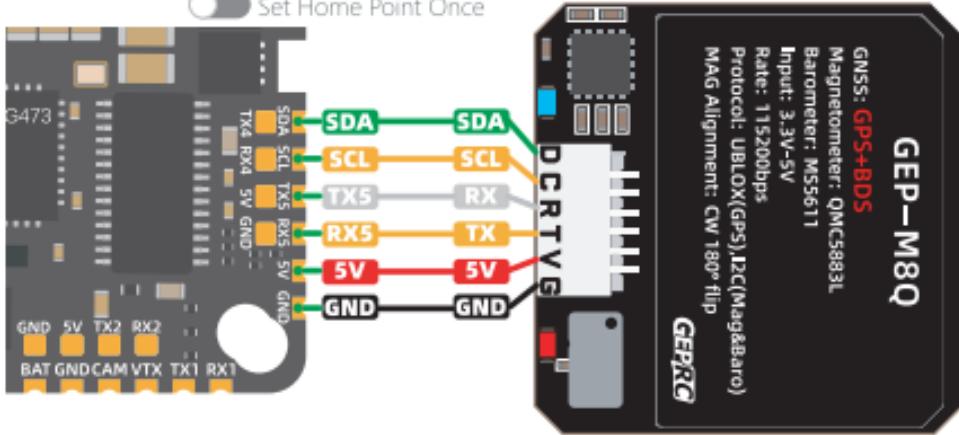
GPS for navigation and telemetry

Protocol: UBLOX

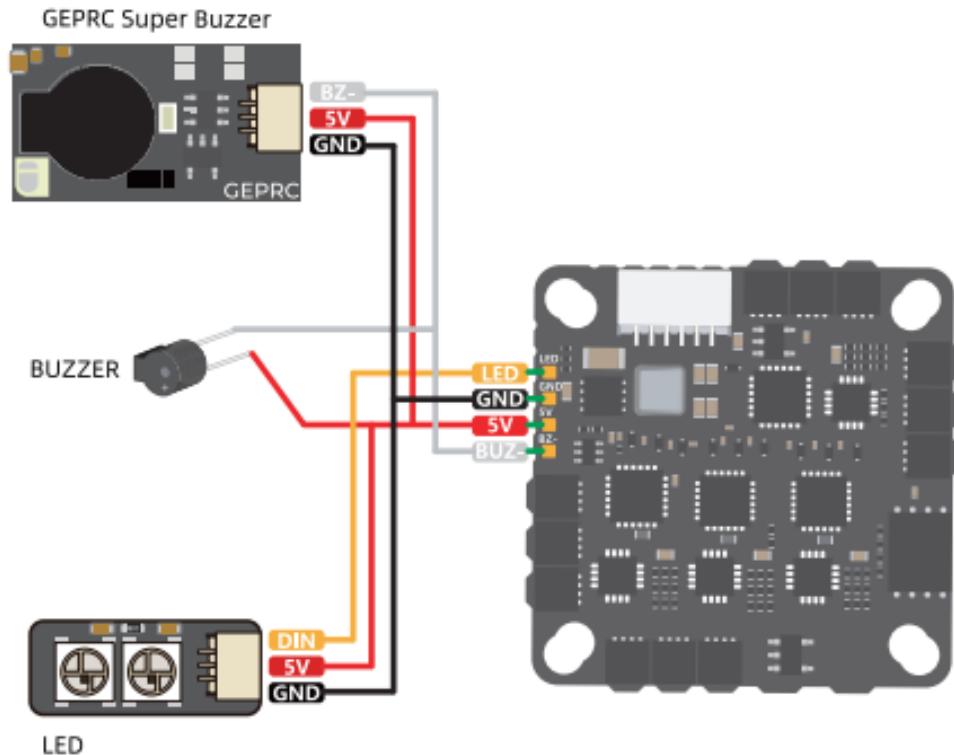
Auto Baud

Auto Config

Set Home Point Once



## Buzzer&LED:



# LED Setup:

**Steup**      **Other Features**

<input type="checkbox"/> SERVO_TILT	Servo gimbal
<input type="checkbox"/> SOFTSERIAL	Enable CPU based serial ports
<input type="checkbox"/> SONAR	sonar
<input type="checkbox"/> TELEMETRY	Telemetry output
<input checked="" type="checkbox"/> LED_STRIP	Multi-color RGB LED strip support

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**Motors**      **LED Strip Wiring**

Wire Ordering Mode      Choose a color for each LED

Clear selected      Clear ALL Wiring

**VideoTransmitter**

**LED Strip**

**Sensors**

**Tethered Logging**

Choose a color for each LED

LED Functions

Function:

Color modifier:    Blink always

Overlay

Warnings

Indicator

VTX (uses vtx frequency to assign color)

LED Orientation ('Modes&Orientation') and Color

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

N  
S  
E  
W  
U  
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.
- 

