

## 飞控参数

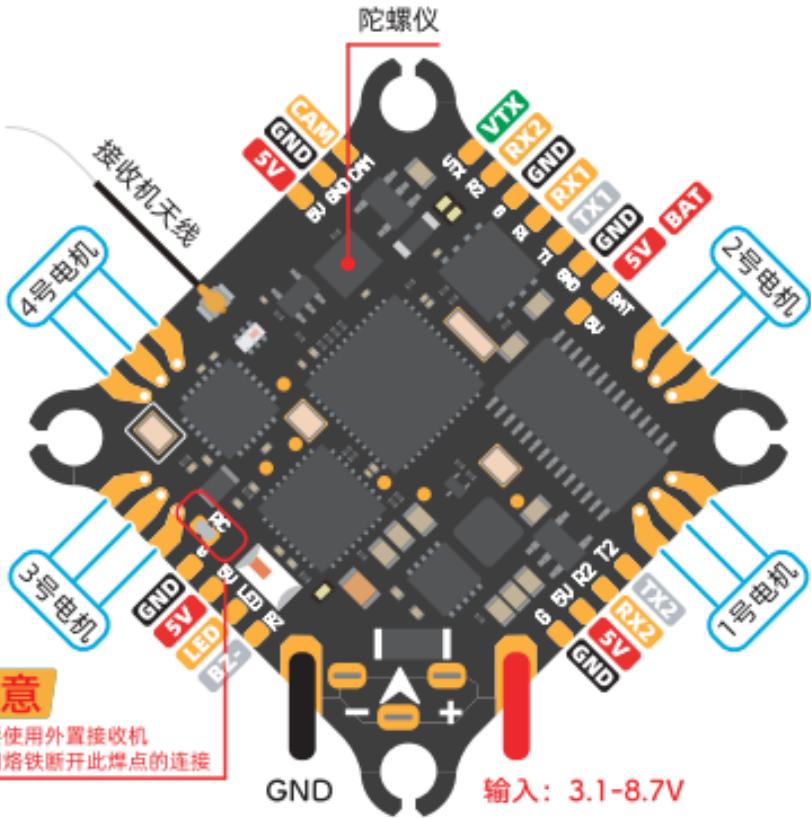
固件目标:	TAKERF411
主控:	STM32F411CEU6
陀螺仪:	BMI270
黑匣子:	8MB
BEC:	5V@1A
安装孔位:	25.5x25.5mm(M3)
Uart串口:	<b>TX1</b> <b>RX1</b> <b>TX2</b> <b>RX2</b>

集成ELRS2.4G 3.0接收机

## 电调参数

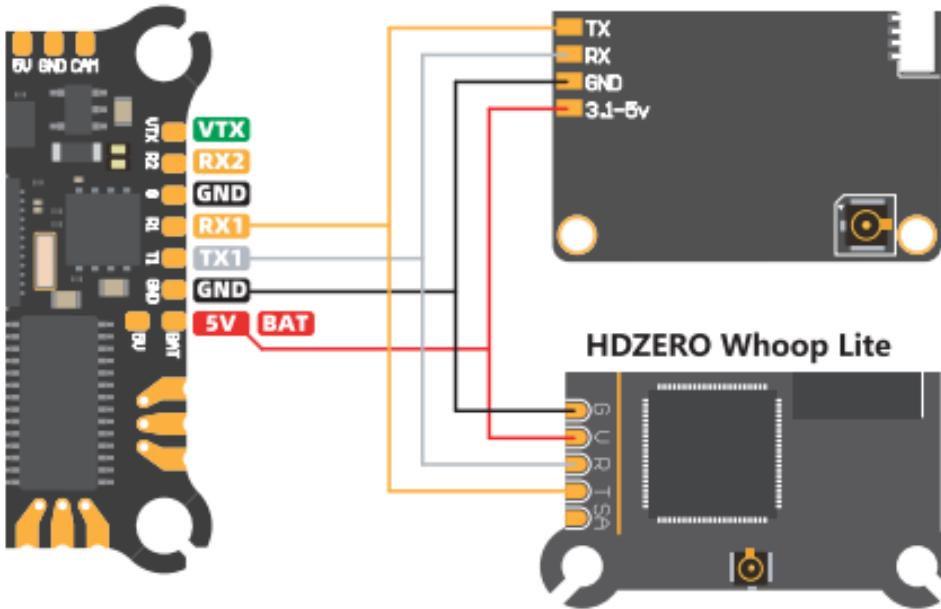
固件:	Bluejay C-X-30
主控:	EFM8BB51
支持电池:	1-2S (3.1-8.7V)
电调协议:	Dshot300-600
持续电流:	12A
瞬时电流:	13A

# 飞控定义



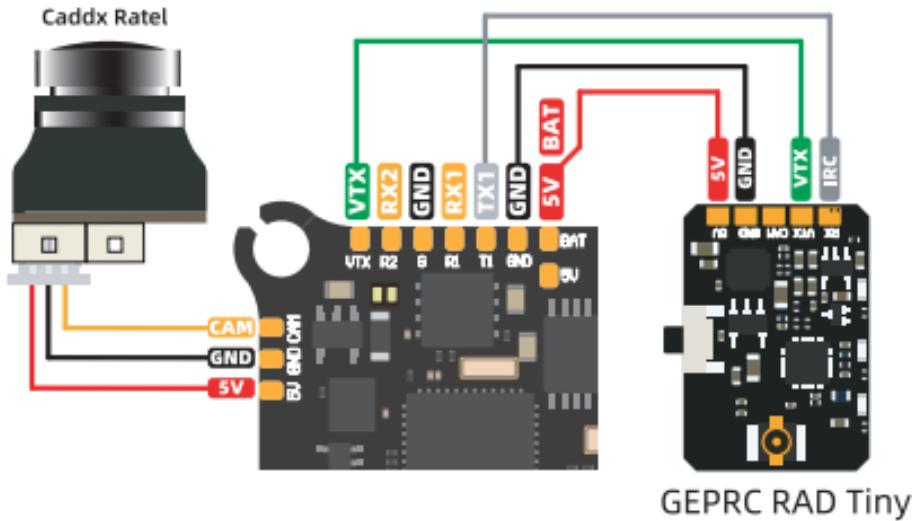
# HDZero/Walksnail

## Walksnail Avatar mini 1s



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 checked="" type="checkbox"/> 115200	<input type="checkbox"/>
动力&电池	UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>

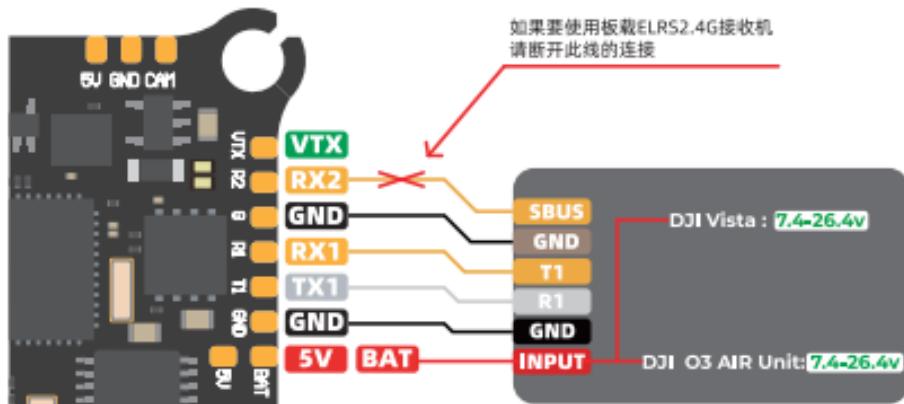
# 模拟图传



GEPRC RAD Tiny

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 ▾	已禁用 AUTO ▾

# DJI数字图传



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

## 注意

DJI vista或DJI O3图传  
只能使用2S电池

Receiver

串行接收机 (通过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

# 板载接收机:ELRS2.4G

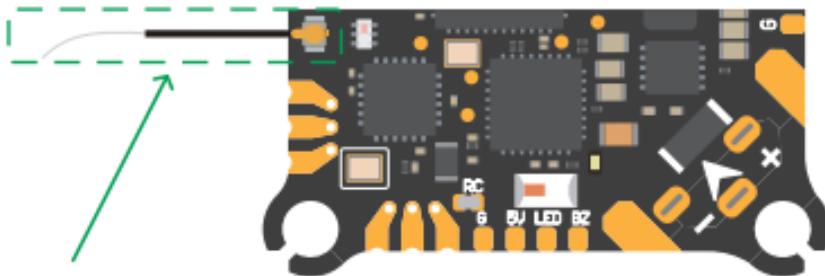
设置	标识符	设置/MSP	串行数字接收机
端口	USB VCP	<input type="button"/> 115200	<input type="button"/>
配置	UART1	<input type="button"/> 115200	<input type="button"/>
动力&电池	UART2	<input type="button"/> 115200	<input type="button"/>

接收机

串行接收机 (通过UART) Receiver Mode

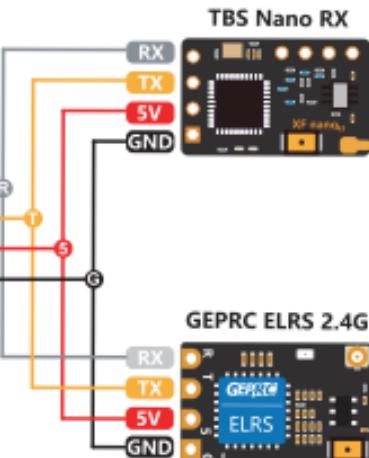
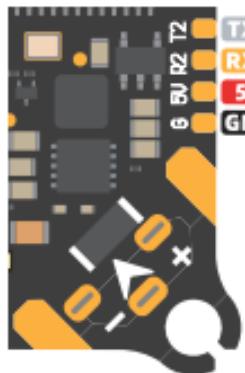
注意: 使用串行接收机时, 请选择串口接收机类型, 并在串口页面设置相应的串口

CRSF 串行数字接收机协议



使用板载接收机时,请安装好天线

# 外置接收机:TBS/ELRS



GEPRC ELRS 2.4G

设置	标识符	设置/MSP	串行数字接收机
端口	USB VCP	<input checked="" 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 type="checkbox"/>
失控保护			<input checked="" type="checkbox"/>

接收机

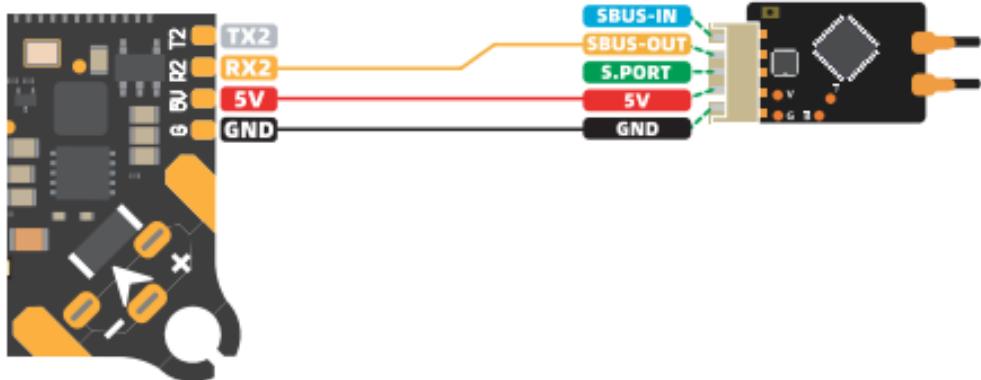
串行接收机 (通过UART) Receiver Mode

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

CRSF

串行数字接收机协议

# 外置接收机：R-XSR

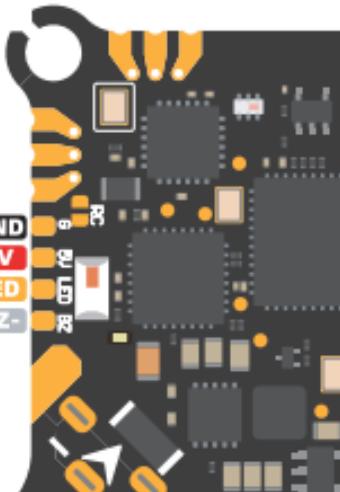
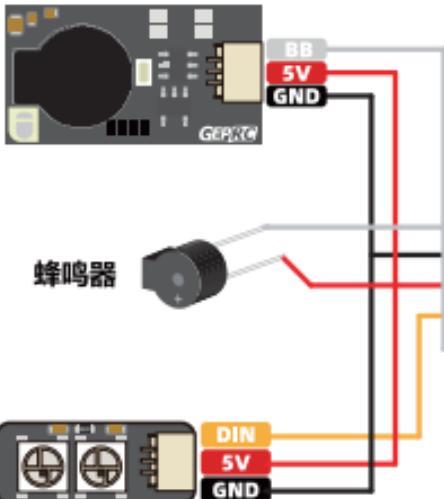


设置	标识符	设置/MSP	串行数字接收机
端口	USB VCP	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>
配置	UART1	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>
动力电池	UART2	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>
失控保护			

PID调校	接收机
接收机	<input type="button" value="串行接收机 (通过UART)"/> 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:
模式	<input type="button" value="SBUS"/> Serial Receiver Provider

# LED/蜂鸣器

## GEPRC 超级蜂鸣器



## LED灯带

### 蜂鸣器配置

- GYRO\_CALIBRATED
- RX\_LOST
- RX\_LOST\_LOADING
- ...

### 其他功能

- TELEMETRY
- LED\_STRIP
- DISPLAY

## 注意事项

- 1 装机后请**仔细检查连线是否正确**，保持飞控整体干净 无多余锡渣残留
- 2 为了飞行的稳定性，请安装电容后使用，包装内附带了一颗
- 3 焊接的电线尽量避开陀螺仪，以免影响陀螺仪正常工作

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PDF手册



Manual PDF

## FC info

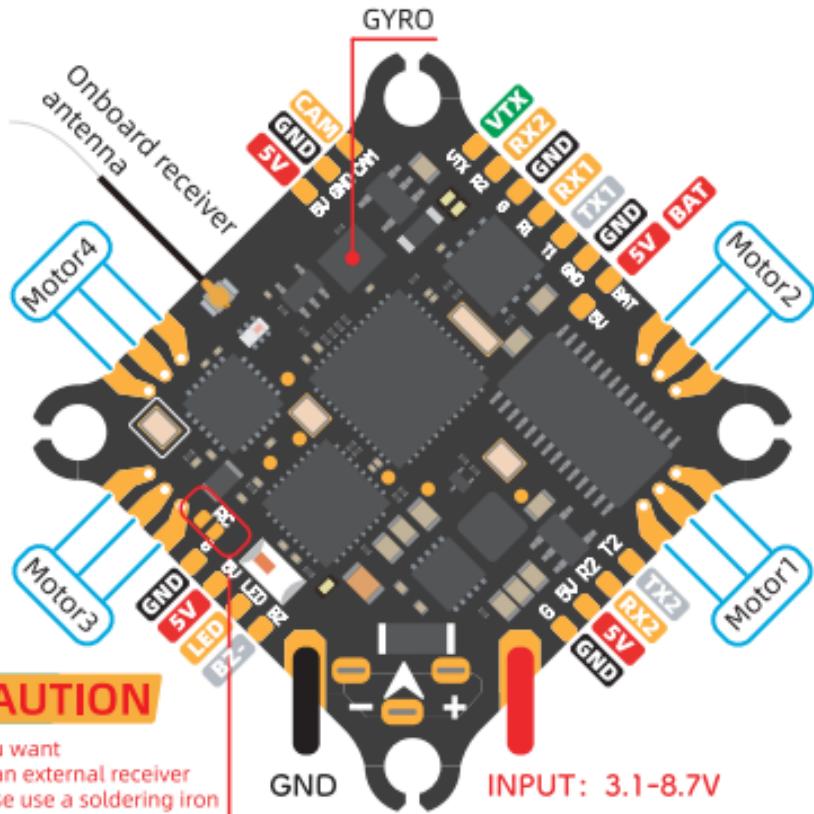
Target: TAKERF411  
MCU: STM32F411CEU6  
IMU: BMI270  
BLACKBOX: 8MB  
BEC: 5V@1A  
Install hole: 25.5x25.5mm(M3)  
Uart: TX1 RX1 TX2 RX2

Integrated ELRS 2.4G 3.0 receiver

## ESC info

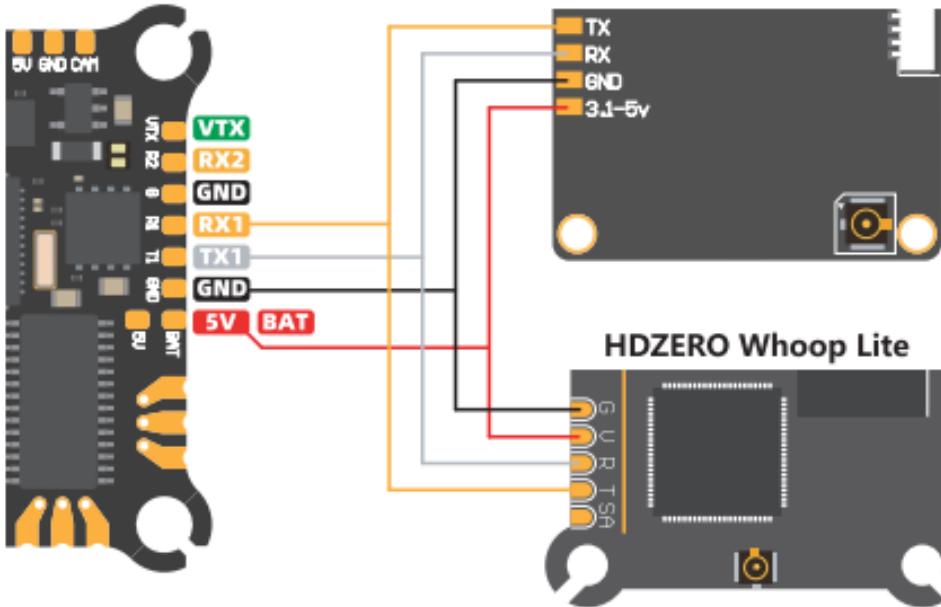
Target: Bluejay C-X-30  
MCU: EFM8BB51  
Battery: 1-2S (3.1-8.7V)  
ESC Protocol: Dshot300-600  
Continuous Current: 12A  
Burst Current: 13A

# Interface definition



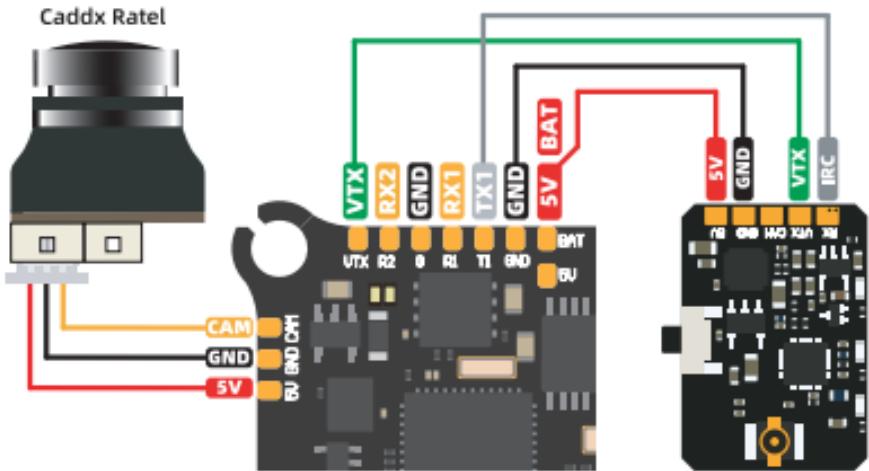
# HDZero/Walksnail

## Walksnail Avatar mini 1s



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

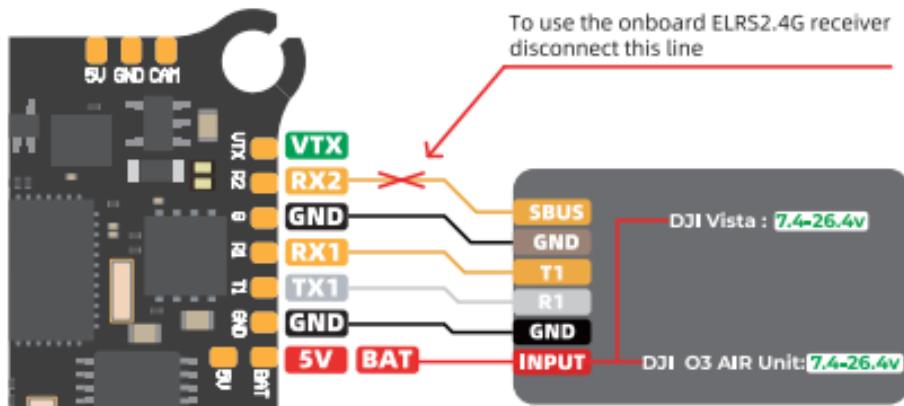
# Analog VTX



GEPRC RAD Tiny

Setup	Identifier	Configuration/MSP	...	Sensor Input		
Ports	USB VCP	<input checked="" type="checkbox"/>	...	Disabled	AUTO	AUTO
Configuration	UART1	<input checked="" type="checkbox"/>	...	VTX(IRC Tramp)	AUTO	AUTO
	UART2	<input type="checkbox"/>	...	Disabled	AUTO	AUTO

# DJI FPV Digital System



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

## CAUTION

DJI vista or DJI O3  
can only use 2S battery!

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

# REceiver:TBS/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 type="checkbox"/>
Failsafe			

**PID**

**Receiver**

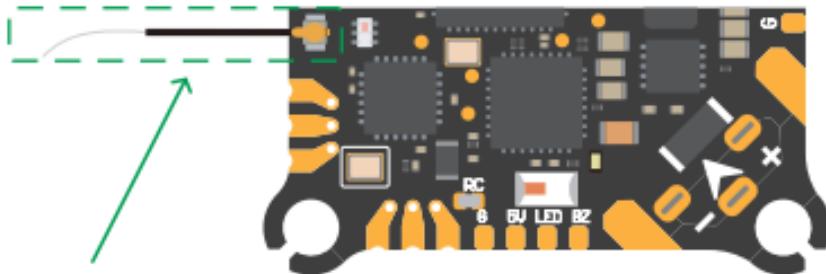
**Modes**

Receiver

Serial(via UART) Receiver Mode

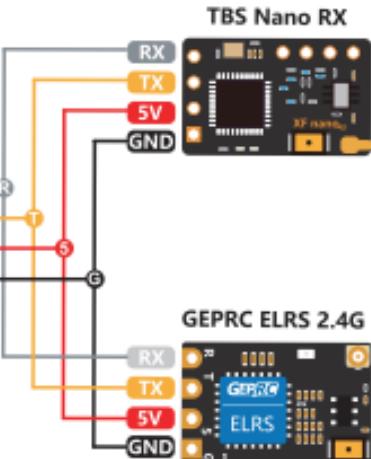
The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)  
Select the correct data format from the drop-down, below:

CRSF Serial Receiver Provider



When using an onboard receiver  
Please install the antenna

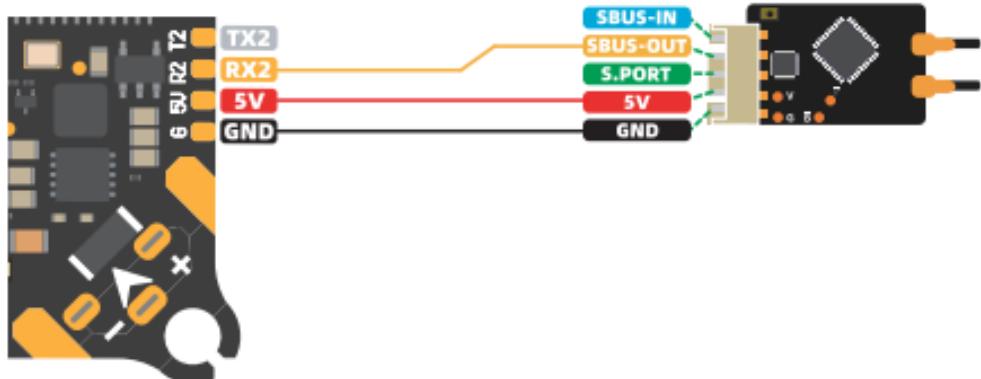
# RReceiver:TBS/ELRS



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

PID	Receiver	
<b>Receiver</b>	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:		
Modes	CRSF	Serial Receiver Provider

# Receiver: R-XSR



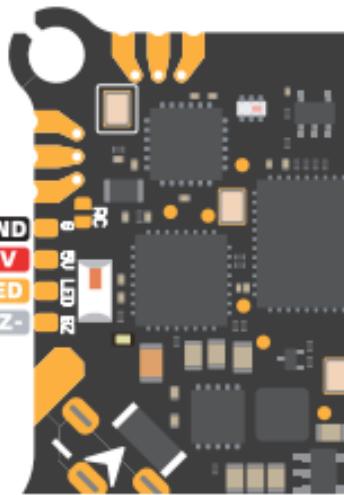
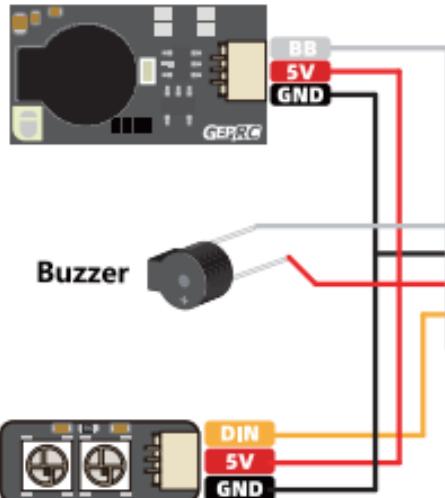
Setup	Identifier	Configuration/MSP	Serial RX
Ports	USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>
Configuration	UART1	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>
Power&Battery	UART2	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>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

PID	Receiver
Receiver	Serial(via UART)
Modes	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

# LED/Buzzer

## GEPRC Super Buzzer



## LED Strip

### Beeper Configuration

- GYRO\_CALIBRATED
- RX\_LOST
- RX\_LOST\_LOADING
- .....

### Other Features

- TELEMETRY
- LED\_STRIP
- DISPLAY

## CAUTION

- 1 After soldering, please check that all connections are correct to avoid damage after power-on.
  - 2 In order to ensure flight stability, please install the capacitor before use. One is included in the package.
  - 3 Try to route the soldered wires away from the gyro to prevent interference with the gyro's normal operation
- 

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