



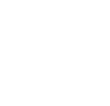
# HGLRC M80 GPS

## 说明书



### M80 GPS

#### 使用指南



## 产品参数

产品名称：HGLRC M80 GPS

芯片：M8030

电源：5V

天线：陶瓷天线

接收模式：GPS, GLONASS, GALILEO, QZSS, SBAS, BDS

接收频道：72个搜索频道

支持波特率：115200dps

支持协议：UBLOX

支持频率：1Hz-10Hz, 默认10Hz

速度精度：0.05 m / s

水平定位精度：2D Acc1.5m (露天)

接收灵敏度：跟踪 -167dBm 重捕 -160dBm

冷启动 -148dBm 热启动 -156dBm

工作限制：高度：50000m 速度：500m / s

重力加速度：4G

工作温度：-40℃--+ 85℃

储存温度：-40℃--+ 105℃

尺寸：18.5mm x 18.5mm x 7.1mm

重量：9.4克

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## 接线方式

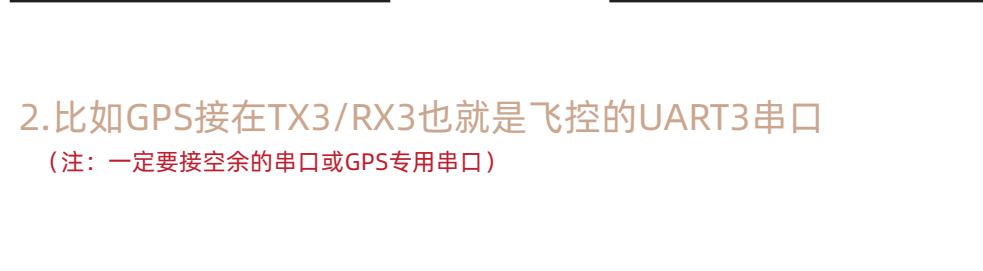
### 1.首先:

GPS的TX接飞控RX

GPS的RX接飞控TX

GPS的5V接飞控5V

GPS的GND接飞控GND



2.比如GPS接在TX3/RX3也就是飞控的UART3串口

(注：一定要接空余的串口或GPS专用串口)

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## GPS设置方法

### 1.首先打开Betaflight Configurator软件.进入端口界面

找到UART3在传感器输入打开GPS并选择波特率115200

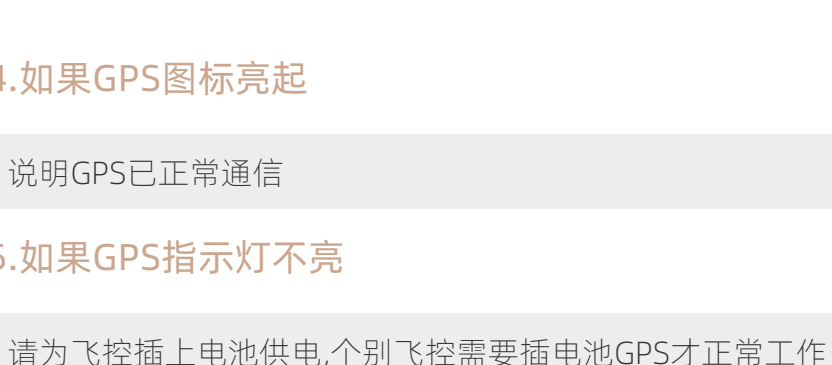


### 2.然后再打开配置界面启用GPS

协议选择UBLOX



### 3.设置完成后检查GPS是否已通信



### 4.如果GPS图标亮起

说明GPS已正常通信

### 5.如果GPS指示灯不亮

请为飞控插上电池供电,个别飞控需要插电池GPS才正常工作

### 6.如果GPS图标不显示或GPS指示灯不亮(已供电)

请检查接线方式是否正确,供电电压是否正常

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## 使用注意事项

1.输入电压在规定范围内正负极无误.否则损坏GPS不再保修。

2.转运及安装使用过程中注意静电防护。

## 公司信息

衷心感谢飞友的信任！欢迎选择化骨龙的产品



公司名称：广东化骨龙科技有限公司

技术电话：18033023851（微信同号）

官网网址：https://hglrc.taobao.com

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# HGLRC M80 GPS

## manual



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## Product parameters

Item Name:HGLRC M80 GPS

Chip:M8030

Power Supply:5V

Antenna:Ceramic Antenna

Receiving Format:GPS,GLONASS,GALILEO,QZSS,SBAS,BDS

Receiving Channel:72 Searching Channel

Support Rate:115200dps

Output Protocol:UBLOX

Output Frequency:1Hz-10Hz,Default 10Hz

Speed Precision:0.05 m/s

Level Positioning Precision:2D Acc1.5m(In Open Sky Place)

Receiving Sensitivity:Trace -167dBm

Capture-160dBm

Dynamic Characteristics:Max Height:50000m

Max Speed:500m/s

Max Acceleration:4G

Working Temperature:-40°C-+85°C

Storage Temperature:-40°C-+105°C

Size:18.5mm x 18.5mm x 7.1mm

Weight:9.4g

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## Wiring method

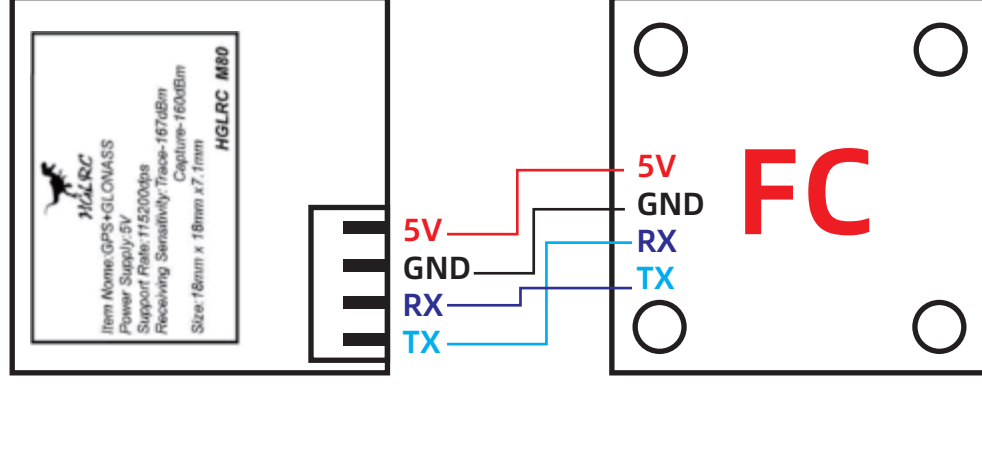
### 1.Example :

The TX of GPS is connected to the flight control RX

GPS RX is connected to flight control TX

Connect 5V of GPS to 5V of flight control

Connect GND of GPS to flight control GND



2.For example (example 1 picture) GPS is connected to TX3 / RX3, which is the UART3 serial port of flight control

(Note: Be sure to connect the free serial port or GPS dedicated serial port)

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## GPS setting method

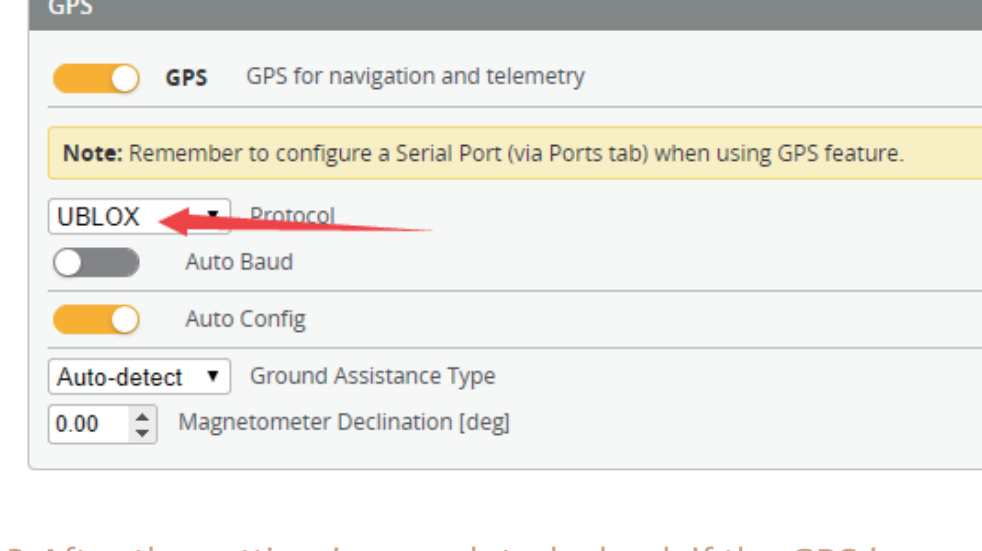
### 1.First open Betaflight Configurator software , Enter the port interface

Find UART3 at the sensor input and turn on GPS and select baud rate 115200

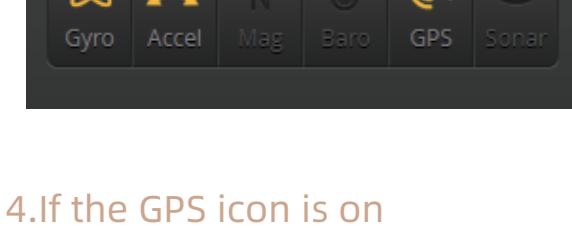
Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Off	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART1	115200	Off	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART2	115200	Off	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART3	115200	Off	Disabled / AUTO	GPS / 115200	Disabled / AUTO
UART6	115200	Off	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART7	115200	Off	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO

### 2.Then open the configuration interface to enable GPS

Select UBLOX as the protocol



### 3.After the setting is completed, check if the GPS is communicating



### 4.If the GPS icon is on

The GPS is communicating normally

### 5.If the GPS indicator is off

Please plug in the battery for the flight controller.The individual flight controller needs to insert the battery GPS to work normally

### 6.If the GPS icon is not displayed or the GPS indicator is off (powered)

Please check if the wiring is correct. Whether the power supply voltage is normal

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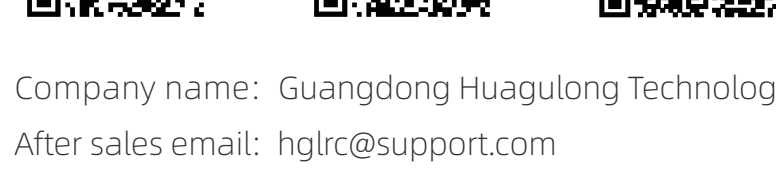


## Precautions for use

- The input voltage is correct within the specified range.  
Otherwise, the GPS will no longer be guaranteed.
- Pay attention to electrostatic protection during transportation and installation.

## Company information

Sincerely thanks for everyone trust! Welcome to choose HGLRC products



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