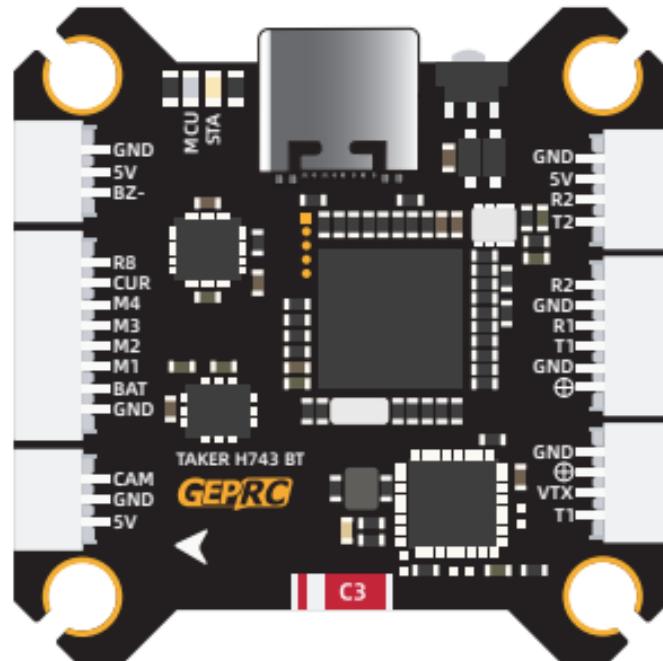
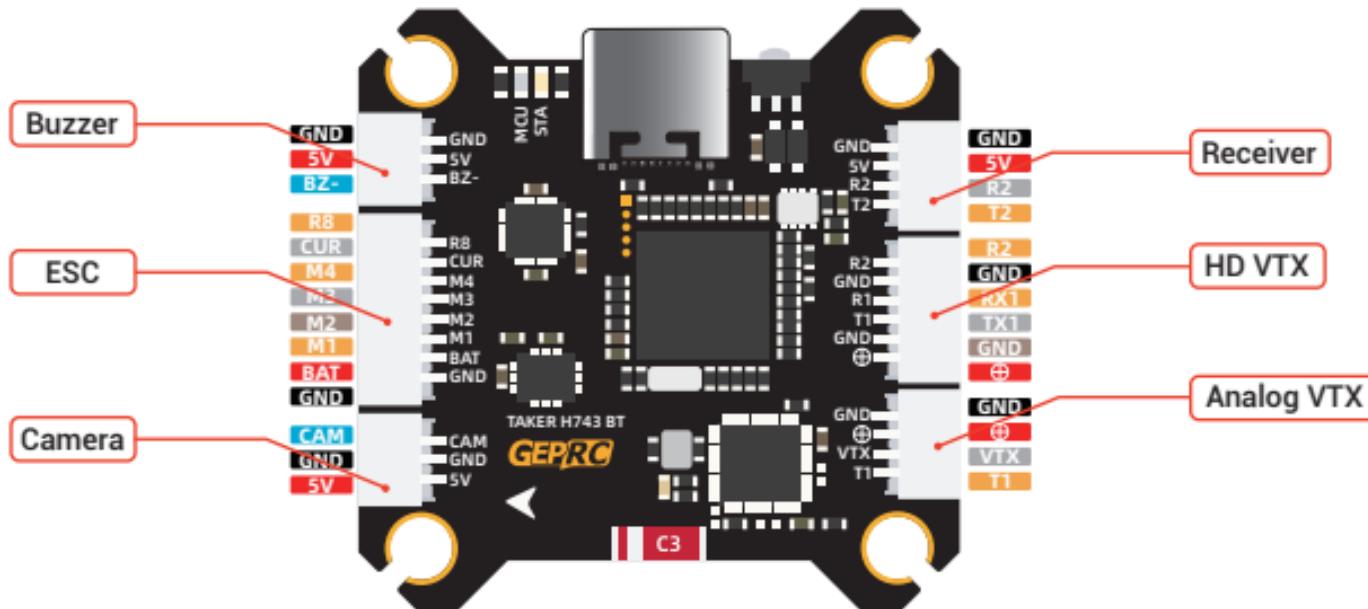


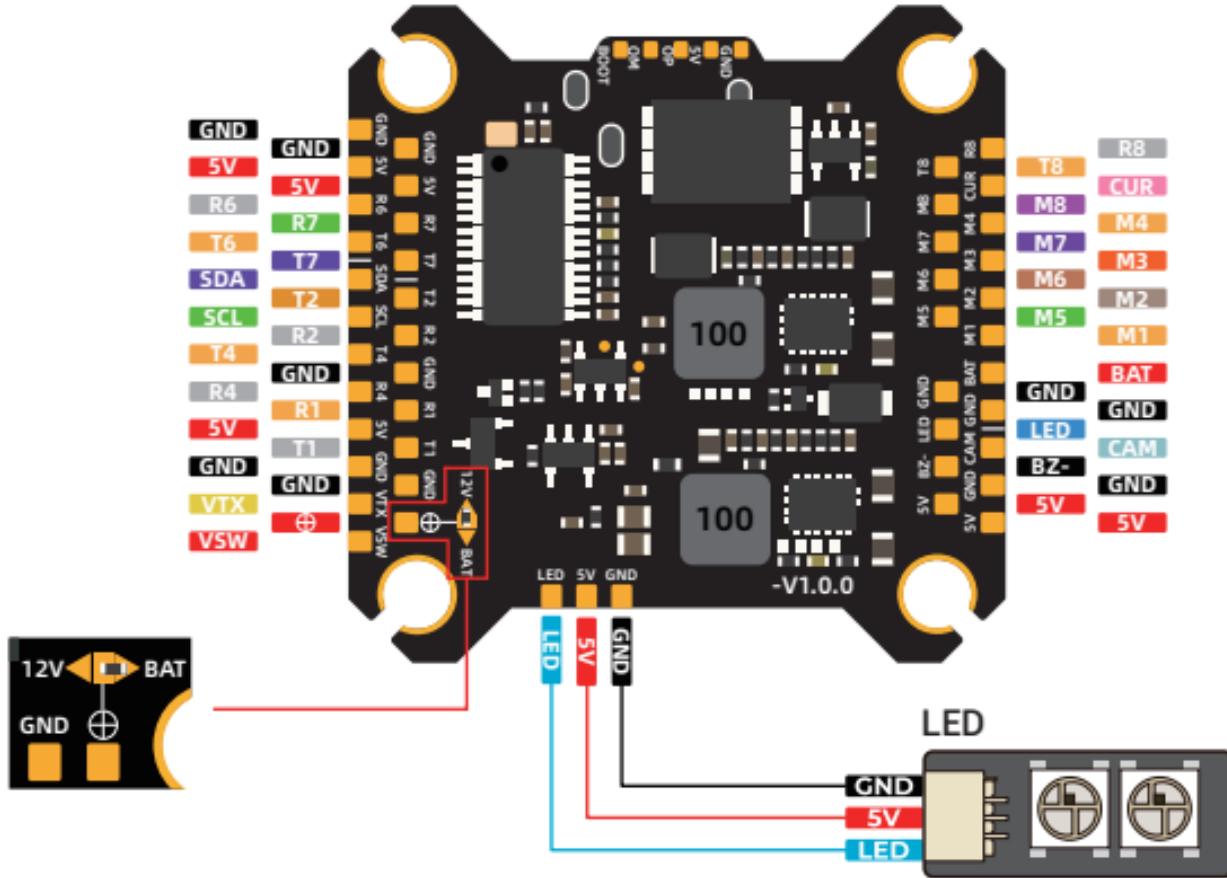
Specs

Item name:	TAKER H743 BT Flight Controller
MCU:	STM32H743
IMU:	MPU6000 + ICM42688-P(dual gyro)
Black Box:	512M onboard
Bluetooth:	Supported
Barometer:	Supported
BEC Output:	5V@3A,12V@2.5A dual BEC
Target:	GEPRC_TAKER_H743
Size:	38.5x38.5mm
Mounting:	30.5x30.5mm
Input Voltage:	3-6S LiPo
UART Ports:	7 groups (UART3 fixed for Bluetooth)

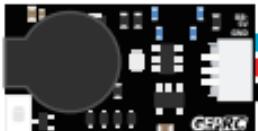


Interface definition





Optional VTX voltage, the default onboard output is 12V,
If the VTX requires BAT voltage, connect the BAT and \oplus pad



Super buzzer



ESC

BZ-
5V
GND

TLM
CUR
M4
M3
M2
M1
BAT
GND

CAM
GND
5V

GND

5V

BZ-

R8

CUR

M4

M3

M2

M1

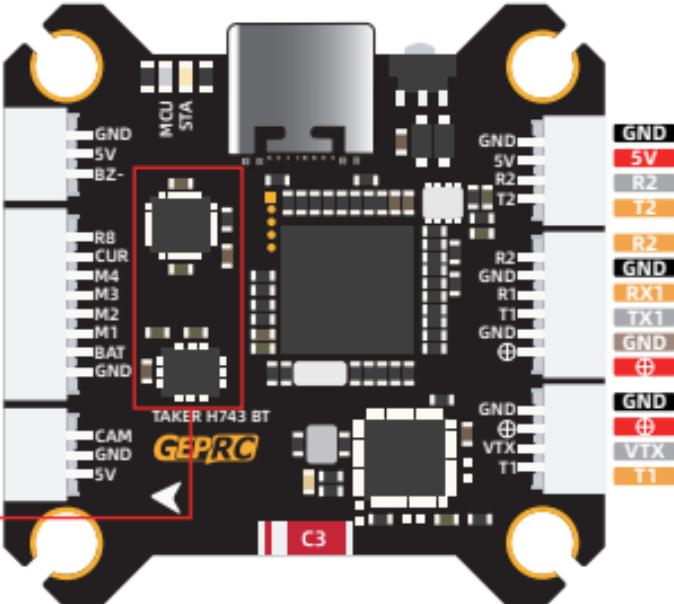
BAT

GND

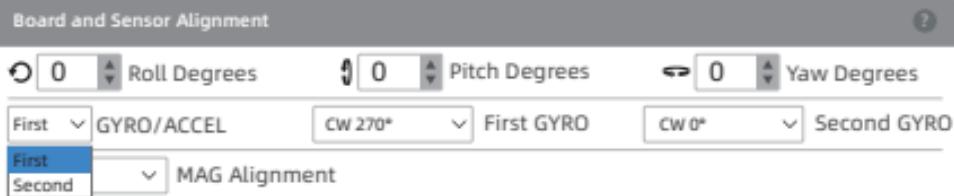
CAM

GND

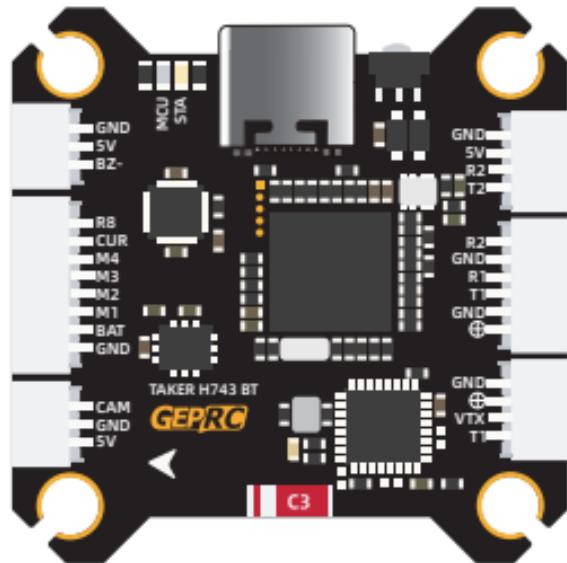
5V



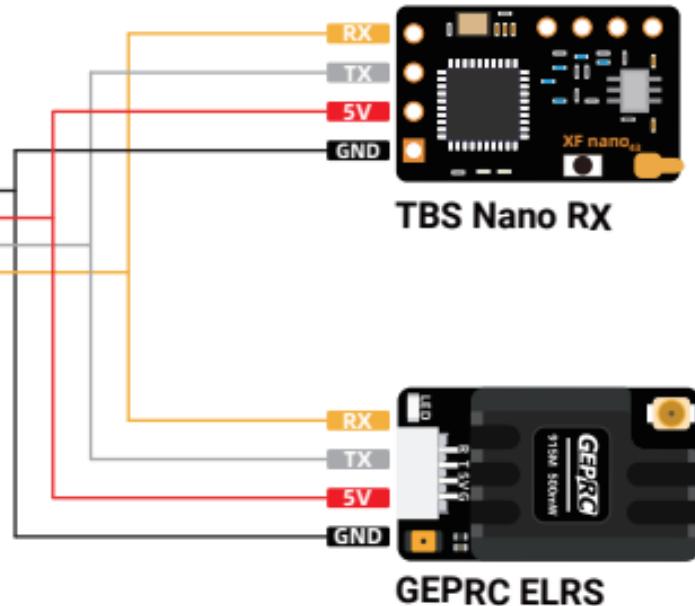
The MPU6000 is the first gyro
The ICM42688-P is the second gyro
(BF and INAV firmware support only one gyro)



Receiver



GND
5V
R2
T2



Setup
Ports
Configuration
Power&Battery
Failsafe

Identifier	Configuration/MSP	Serial RX
USB VCP	<input checked="" 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)
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

VTX

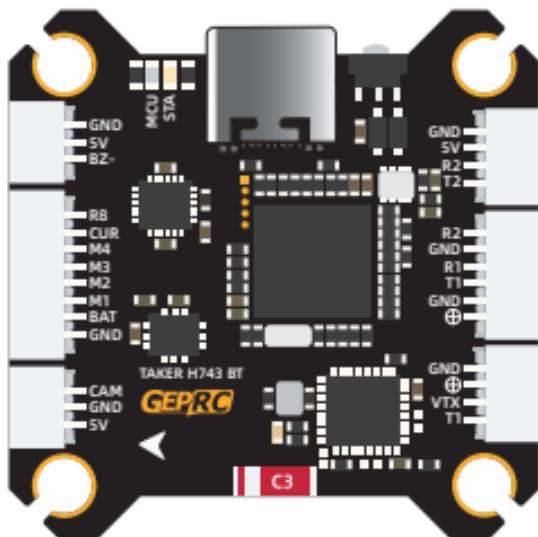
Identifier	Configuration/MSP	Serial RX
USB VCP	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>
UART1	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>
UART2	<input type="checkbox"/> 115200 ▾	<input checked="" type="checkbox"/>

Receiver

Serial (Via UART) Receiver Mode

Note: Remember to configure a Serial Port(via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.

SBUS Serial Receiver Provider

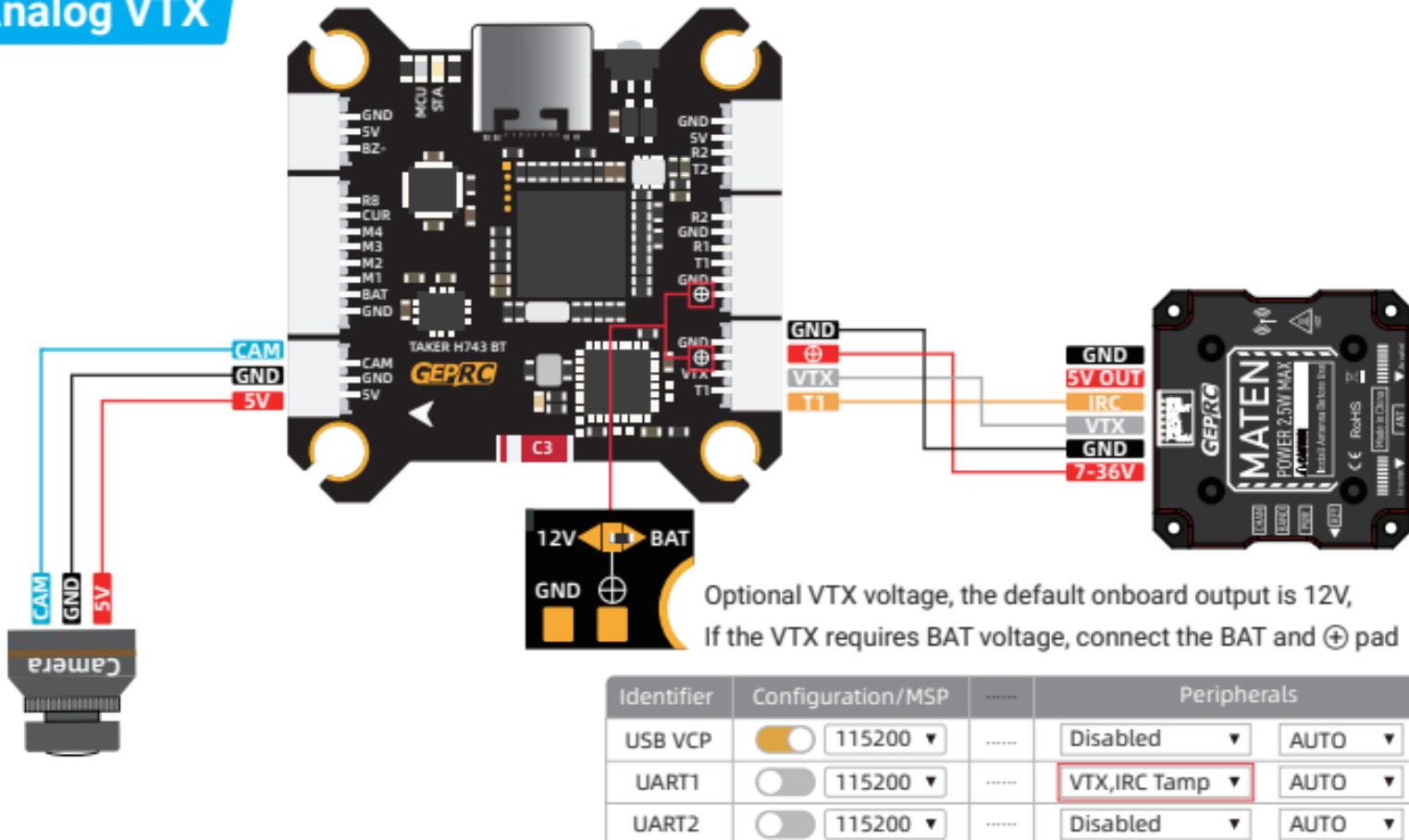


If using an external receiver,
disconnect this cable



CLI Commands:
set osd_displayport_device = MSP
set vcd_video_system = HD
SAVE
to enable high-definition OSD transmission

Analog VTX

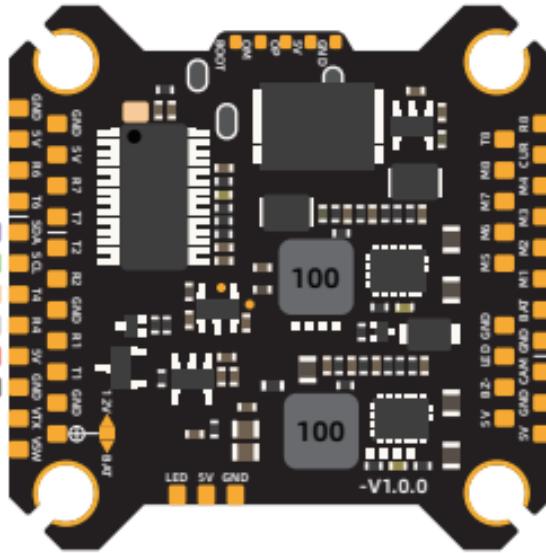


GPS

GPS



SDA and SCL are for the compass and external barometer



GPS

GPS GPS for navigation and telemetry

Note: Remember to configure a Serial Port[via Ports tab]when using GPS feature.

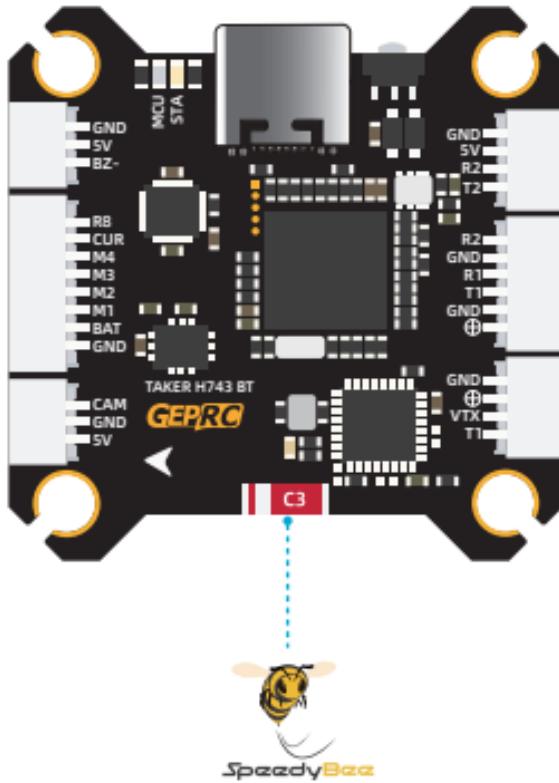
Protocol: UBLOX Auto Baud Auto Config

Use Galileo Set Home Point Once

Ground Assistance Type: None

Identifier	Configuration/MSP	Sensor Input
UART3	<input type="checkbox"/> 115200	Disabled AUTO
UART4	<input type="checkbox"/> 115200	GPS 115200

Bluetooth



The screenshots show the SpeedyBee mobile application interface. The first screenshot shows a list titled "My device (1)" with a single entry: "GEPRC". The second screenshot shows the "Setup" screen for the GEPRC device. It includes sections for "Setup" (containing "Read Z axis, offset 0.0 deg"), "Info" (listing Arming Disable Flags, Battery voltage, Capacity down, Current draw, RSSI, and CPU Temperature), and "GPS" (listing 3d Fix). At the bottom are buttons for "Calibrate Accelerometer" and "Calibrate Magnetometer". A third screenshot shows a modal dialog titled "Found GEPRC" with the GEPRC logo, containing "Identifiable devices" and "Connect" buttons.

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"/>
UART3	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>

CAUTION:

- 1 All wires should try to avoid the gyroscope,
so as not to affect the normal work of the gyroscope.
 - 2 After soldering, please check that all connections are correct
to avoid damage after power-on.
-

facebook



[facebook.com/geprc](https://www.facebook.com/geprc)

Official website



www.geprc.com

Instagram



instagram.com/geprc

YouTube



youtube.com/geprc

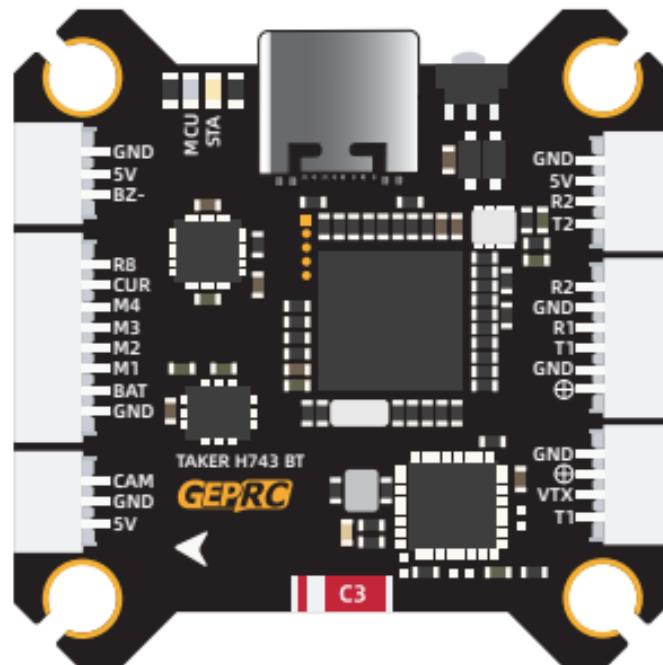
Manual



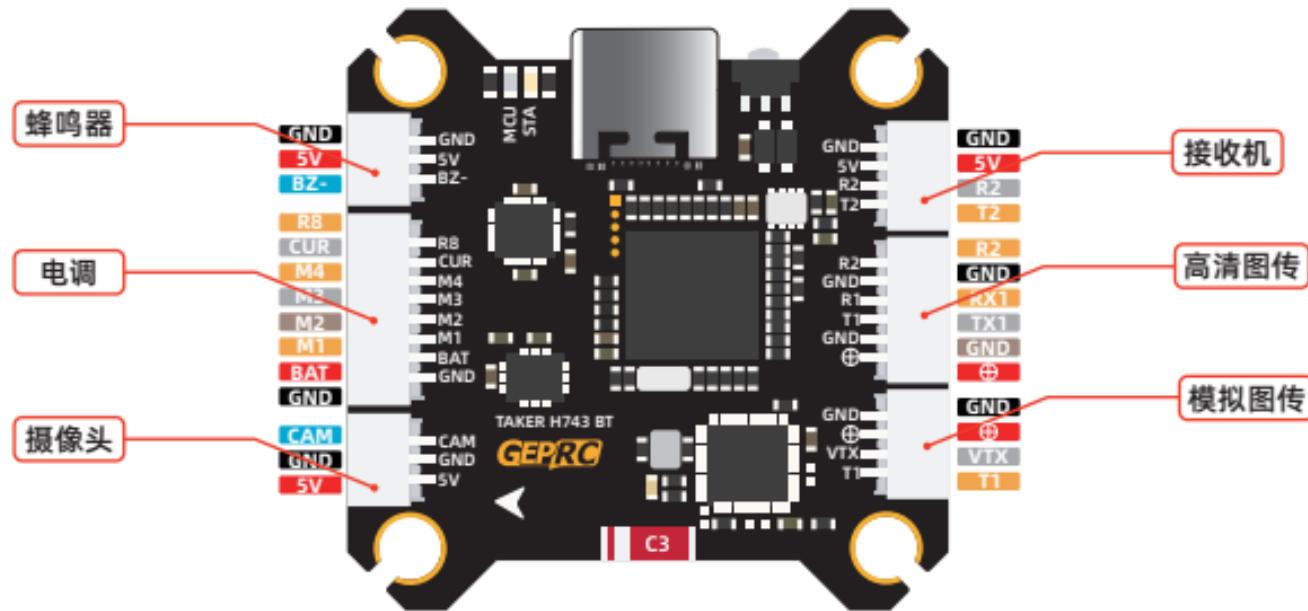
geprc.com/support

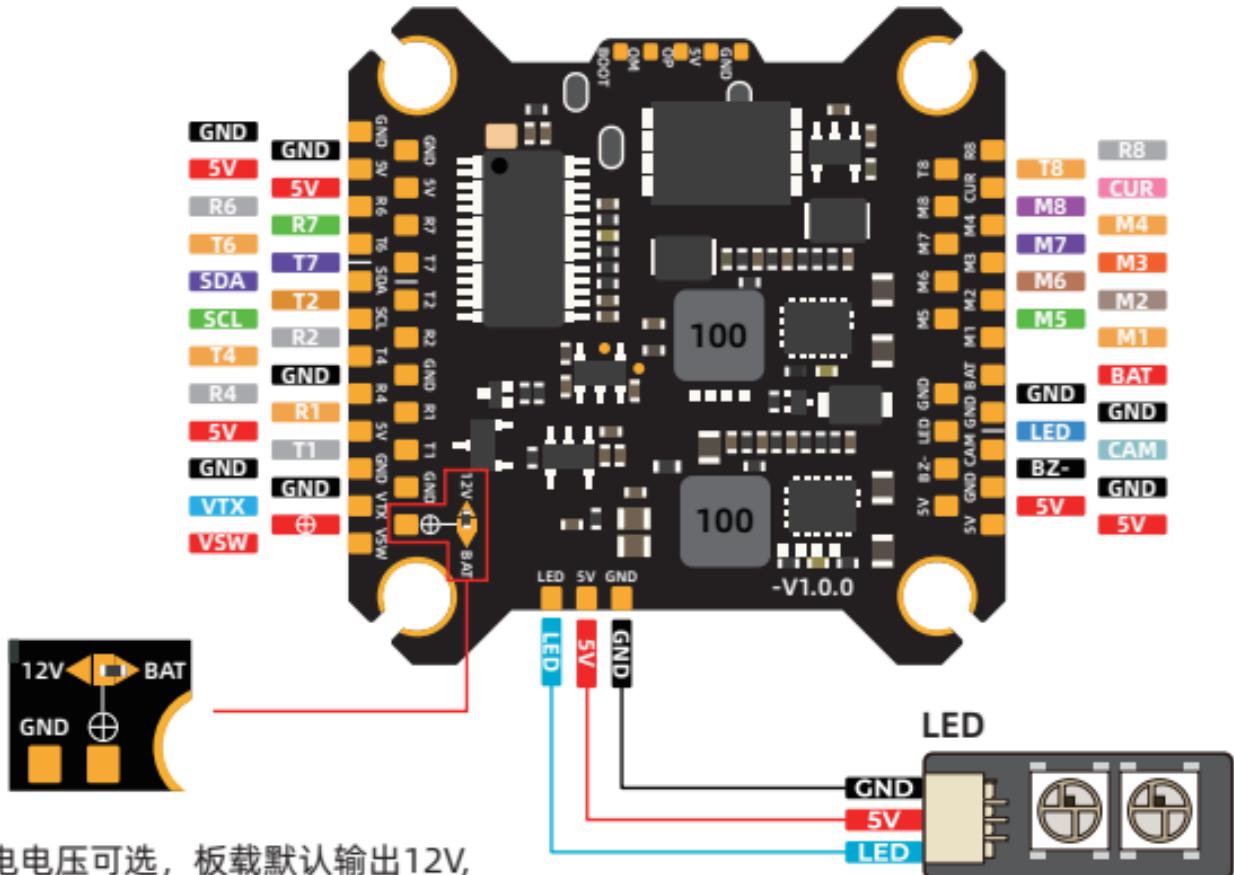
规格

产品名称:	TAKER H743 BT 飞控
MCU:	STM32H743
IMU:	MPU6000 + ICM42688-P(双陀螺仪)
黑匣子:	512M板载
蓝牙:	支持
气压计:	支持
BEC输出:	5V@3A,12V@2.5A双路输出
固件目标:	GEPRC_TAKER_H743
最大外尺寸:	38.5x38.5mm
安装孔距:	30.5x30.5mm
输入电压:	3-6S LiPo
UART串口:	7组(UART3固定用于蓝牙)

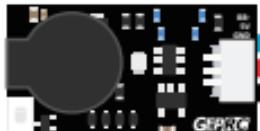


接口定义





图传供电电压可选，板载默认输出12V，
如图传有BAT电压需求可短接BAT与⊕焊盘



超级BB响



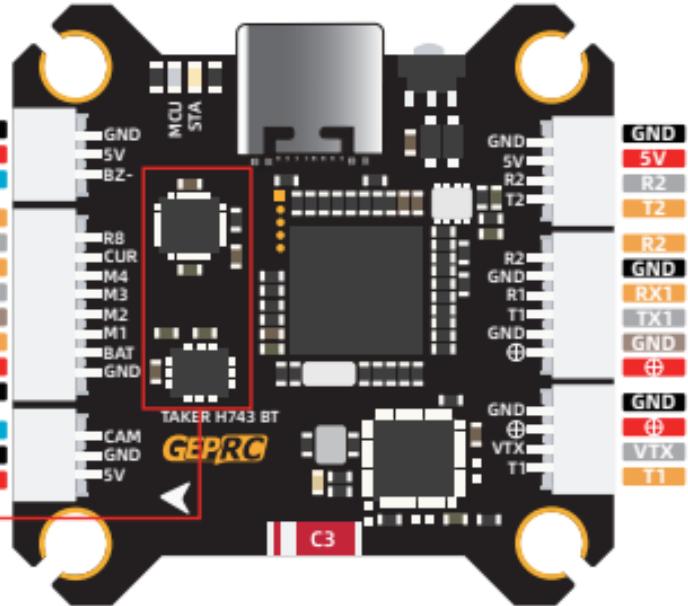
ESC

BZ+
5V
GND

TLM
CUR
M4
M3
M2
M1
BAT
GND

CAM
GND
5V

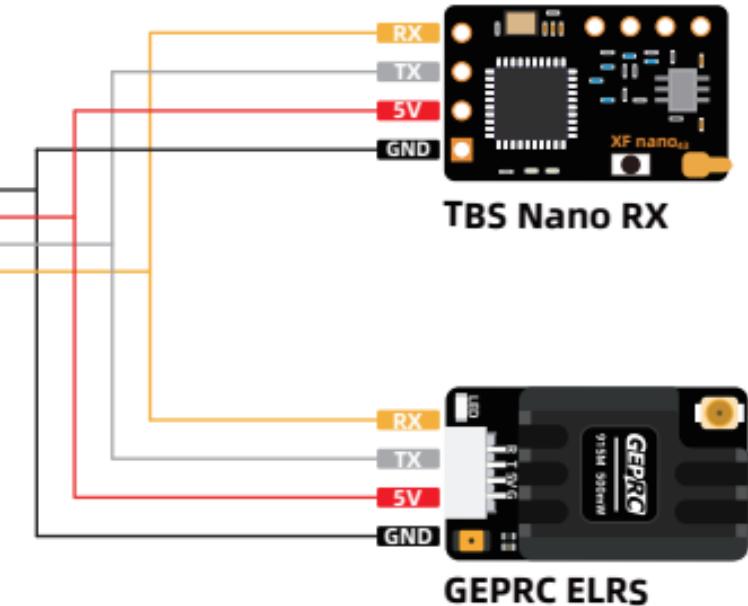
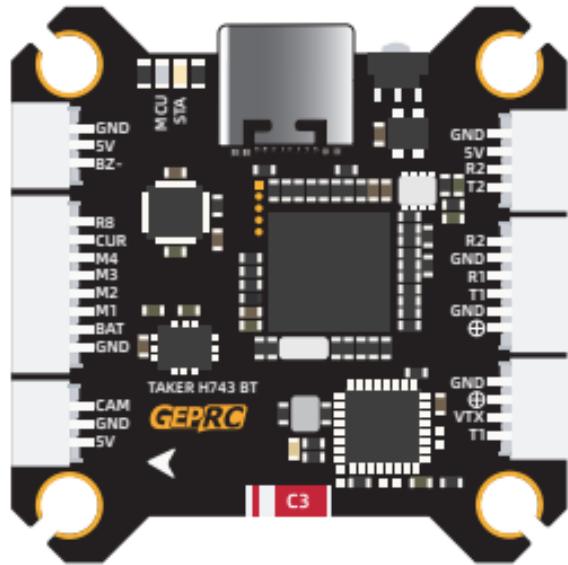
第一个陀螺仪为MPU6000
第二个陀螺仪为ICM42688-P
(BF和INAV暂不支持双陀螺仪同时运行)



飞控和传感器方向

0	↑ 横滚度	0	↑ 俯仰度	0	↑ 偏航度
第一个	陀螺仪/加速度计	CW 270°	第一个陀螺仪	CW 0°	第二个陀螺仪
第一个 第二个	▼	▼	▼	▼	▼
磁力计方向					

接收机



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 checked="" type="checkbox"/> 115200	<input type="checkbox"/>
UART1	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>
UART2	<input checked="" type="checkbox"/> 115200	<input checked="" type="checkbox"/>

接收机

串行接收机 (通过UART)

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:

CRSF

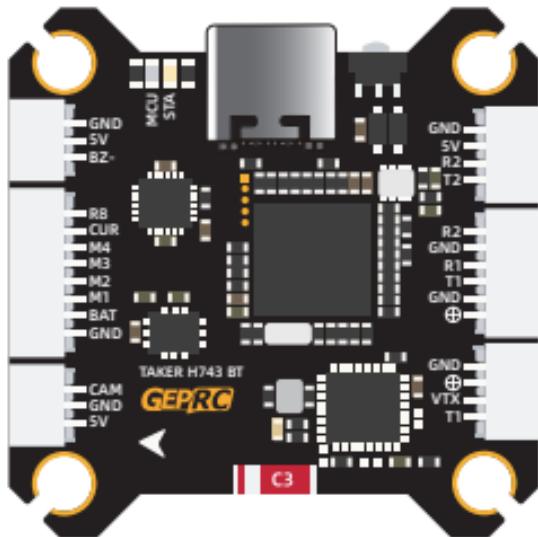
高清图传

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"/>

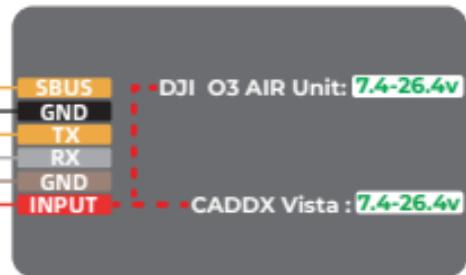
接收机

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

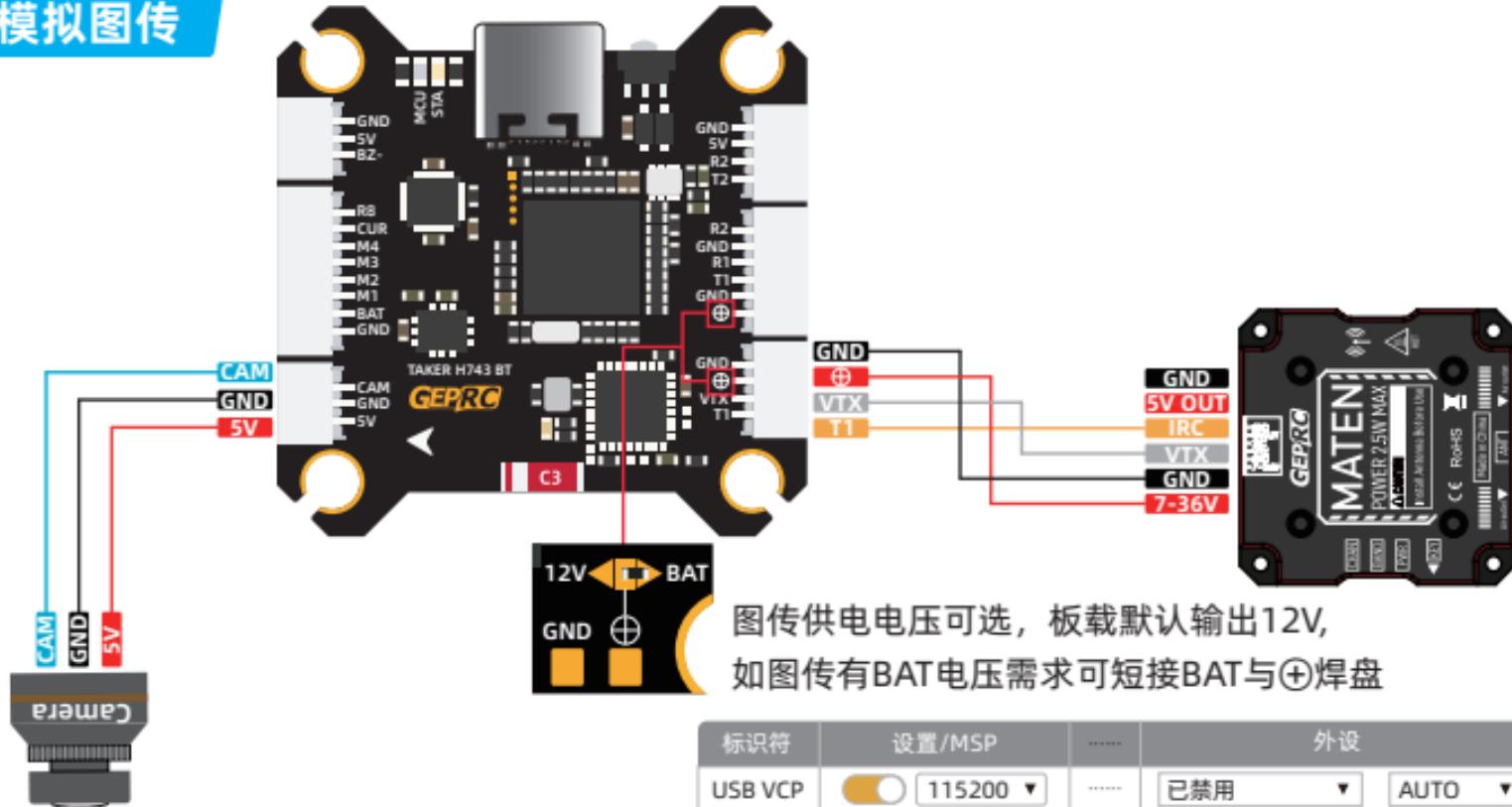


如果使用外置接收机, 请断开此线



CLI命令行输入：
set osd_displayport_device = MSP
set vcd_video_system = HD
SAVE
以开启高清图传OSD回传

模拟图传



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 Tamp AUTO
UART2	<input checked="" type="checkbox"/> 115200	已禁用 AUTO

GPS

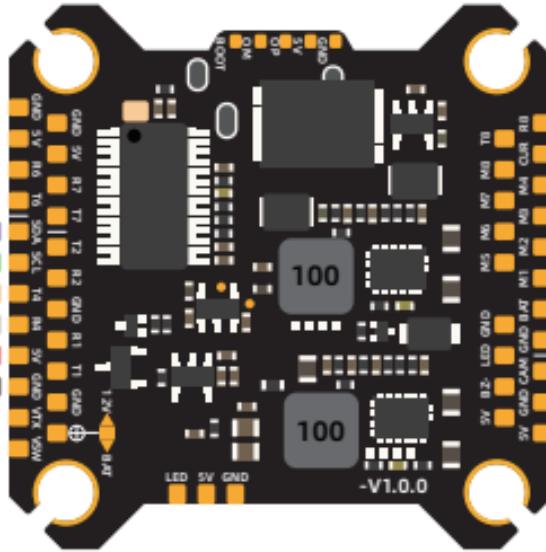
GPS



SDA
SCL
RX
TX
5V
GND

SDA SCL用于罗盘和外接气压计使用

SDA
SCL
T4
R4
5V
GND



GPS

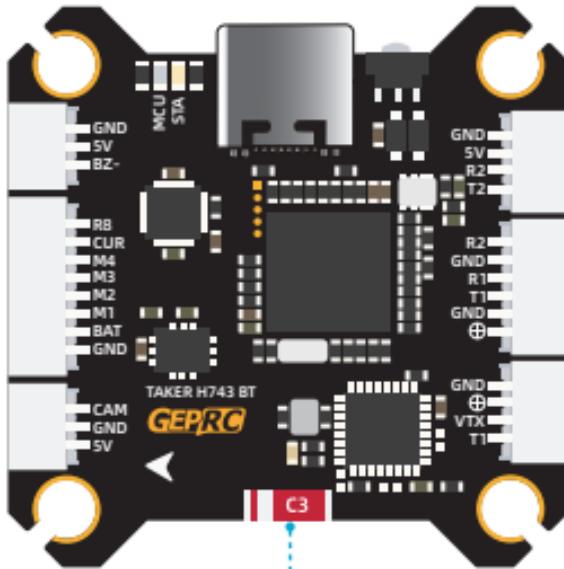
GPS 启用GPS导航

注意：使用GPS之前需要先在串口页面设置一个串口。

UBLOX 协议
自动波特率
自动设置
使用Galileo系统
设置单次返航点
自动检测 地面辅助类型

标识符	设置/MSP	传感器输入
UART3	<input type="checkbox"/> 115200	已禁用 AUTO
UART4	<input type="checkbox"/> 115200	GPS 115200

蓝牙



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"/>
UART3	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>

注意事项：

- 1 焊接的电线尽量避开陀螺仪，以免影响陀螺仪正常工作
- 2 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