TAKER G4 35A AIO

GEPRC

飞控参数

固件目标:	TAKER G4_AIO
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:	3-6S LiPo
Uart串口:	4组

电调参数

主控型号:	EFM8BB21F16G
驱动型号:	SA6288
目标名:	J-H-15
持续电流:	35A
瞬间电流:	45A(5S)
支持电池:	3-6s (12.6-26.1V)
支持固件:	BLHeli_S Bluejay

接口定义：

GND

BAT 3-6S （12.6-26.2V）

TX3 SDA
RX3 SCL
5V
GND
5V
GND

RX1

TX2 VTX
T2S RX6
5V
GND
GND BAT

GEPRC

TAKER G435A

STM32G473
CEU6
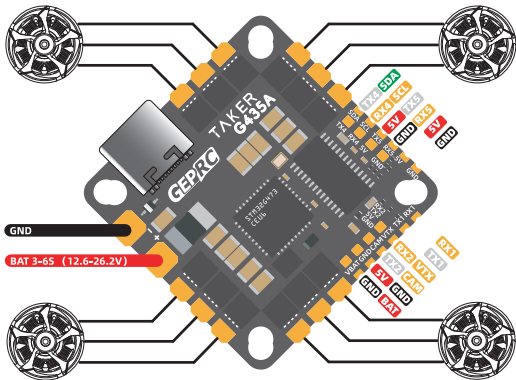
DJI数字图传：

标识符	设置/MSP		串行数字接收机
USB VCP	🔘 115200 ▼		⚪
UART1	🔘 115200 ▼		⚪
UART2	⚪ 115200 ▼		🔘

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

DJI O3 AIR Unit : 7.4-26.4v	INPUT	BAT
	GND	GND
	R1	TX1
	T1	RX1
	GND	GND
CADDX Vista : 7.4-26.4v	SBUS	RX2
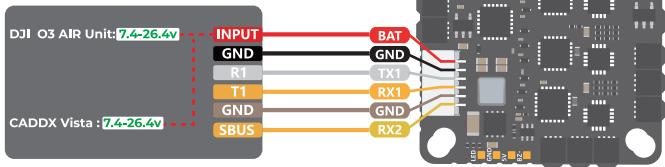
模拟图传：
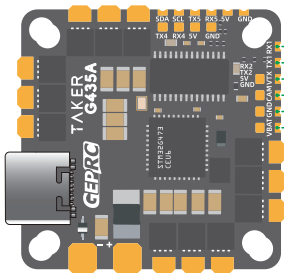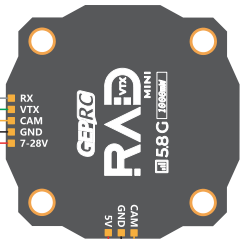
标识符	设置/MSP			外设	
USB VCP	🟠 115200 ▼	……	已禁用 ▼	AUTO ▼
UART1	⚪ 115200 ▼	……	VTX(IRC Tramp) ▼	AUTO ▼
UART2	⚪ 115200 ▼	……	已禁用 ▼	AUTO ▼

IRC Tramp

接收机：（TBS Nano RX/ELRS）

TBS Nano RX

GEPRC ELRS

	Identifier	Configuration/MSP	Serial RX
Setup	USB VCP	115200	
Ports	UART1	115200	
Configuration	UART2	115200	
Power&Battery			
Failsafe			

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

接收机：（Frsky R-xsr）
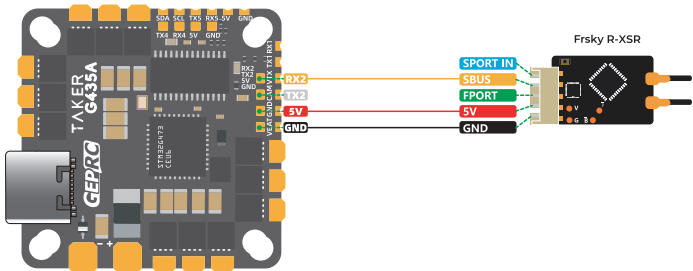
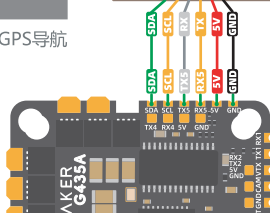|	标识符	设置/MSP	串行数字接收机
⚙ 设置			
🔌 端口	USB VCP	115200	
⚙ 配置	UART1	115200	
🔋 动力电池	UART2	115200 ▾	⬤
📡 失控保护			

接收机

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：

SBUS ▾ Serial Receiver Provider

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	LPUART1 ·······➡	GPS ▼	115200 ▼

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

⚙ 设置	
⚙ 端口	🟡 GPS 启用GPS导航
⚙ 配置	UBLOX ▼ 协议
⚙ 动力&电池	🟡 自动波特率
⚙ 失控保护	🟡 自动设置
	⚪ 设置单次返航点

蜂鸣器&LED：

GEPRC 超级蜂鸣器
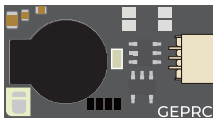
DIN
5V
GND
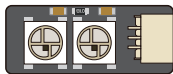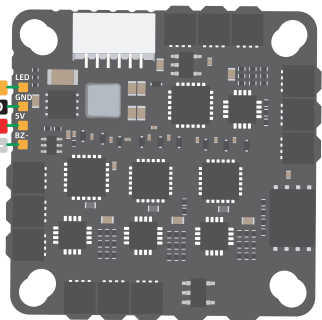
LED
GND
5V
BUZ-

蜂鸣器

LED
GND
5V
BZ-

DIN
5V
GND

LED灯带

外置LED设置：

	其他功能
🔧 设置	
⚡ 端口	⬜ SERVO_TILT 舵机云台
⚙ 配置	⬜ SOFTSERIAL 启用软串口
🔋 动力&电池	⬜ SONAR 声呐
⚠ 失控保护	⬜ TELEMERY 遥测输出
	🟧 LED_STRIP 彩色RGB LED灯带

	LED Strio Wiring
🔋 电机	
📶 图传	
🔆 LED设置	
⚙ 传感器	
📋 日志	

布线模式

清除已选定   清除所有布线
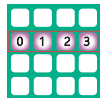
0 1 2 3

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，电容已包含在包装盒内

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：

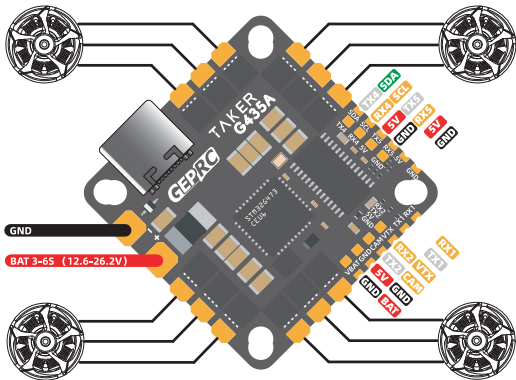geprc.taobao.com

格普官网：

www.geprc.com

TAKER G4 35A AIO

GEPRC

FC:

Target:	TAKER G4_AIO
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:	3-6S LiPo
Uart:	4 Set

ESC:

Controller Model:	EFM8BB21F16G
Driver Model:	SA6288
Target:	J-H-15
Continuous Current:	35A
Burst Current:	45A (5S)
Input Voltage:	3-6s (12.6-26.1V)
Support Firmwar:	BLHeli_S Bluejay

Interface definition：

GND

BAT 3-6S （12.6-26.2V）

TX3 SDA
RX3 SCL
5V TX5
GND RX5
5V
GND

RX2 VTX
TX2 VTX
RX1
TX1
5V
GND
GND BAT

DJI FPV Digital System:

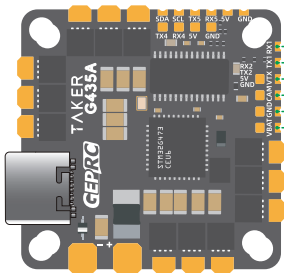| Identifier	Configuration/MSP		Serial RX
USB VCP	⬤	115200 ▼	⬤
UART1	⬤	115200 ▼	⬤
UART2	⬤	115200 ▼	⬤

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

DJI O3 AIR Unit: 7.4-26.4v — INPUT — BAT

GND — GND

R1 — TX1

T1 — RX1

GND — GND

CADDX Vista : 7.4-26.4v — SBUS — RX2
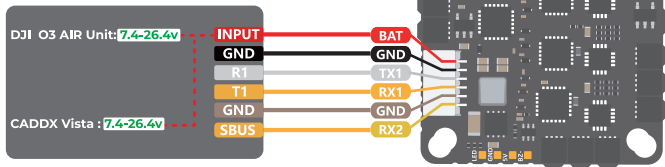
Analog VTX:

GERPC RAD MINI VTX

IRC Tramp

Identifier	Configuration/MSP	......	Peripherals	
USB VCP	🟠 115200 ▼	......	Disabled ▼	AUTO ▼
UART1	⚪ 115200 ▼	......	VTX(IRC Tramp) ▼	AUTO ▼
UART2	⚪ 115200 ▼	......	Disabled ▼	AUTO ▼

CAMERA

Receiver: (TBS Nano RX/ELRS)

TBS Nano RX

GEPRC ELRS

Setup	Identifier	Configuration/MSP	Serial RX
Ports	USB VCP	🟠 115200 ▾	⚪
Configuration	UART1	⚪ 115200 ▾	⚪
Power&Battery	UART2	⚪ 115200 ▾	🟠
Failsafe			

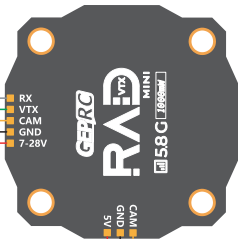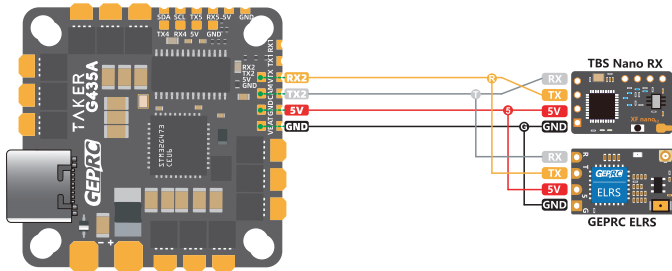| Receiver	
Serial(via UART) ▾	Receiver Mode
•The UART for the receiver must be set to 'Serial Rx'(in the Ports tab) •Select the correct data format from the drop-down,below:	
CRSF ▾	Serial Receiver Provider

Receiver: (Frsky R-xsr)

Frsky R-XSR

SPORT IN	RX2
SBUS	
FPORT	TX2
5V	5V
GND	GND

	Identifier	Configuration/MSP	Serial RX
⚙ Setup			
Ports	USB VCP	115200	
	UART1	115200	
⚙ Configuration			
Power&Battery	UART2	115200	
Failsafe			

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:

Identifer	Sensor Input	
USB VCP	Disabled ▾	AUTO ▾
UART1	Disabled ▾	AUTO ▾
UART2	Disabled ▾	AUTO ▾
LPUART1	GPS ▾	115200 ▾

Setup
Ports
Configuration
Power&Battery
Failsafe

GEP–M8Q

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

GEPRC

SDA SCL RX TX 5V G

Setup
Ports
Configuration
Power&Battery
Failsafe

🔘 **GPS**   GPS for navigation and telemetry

UBLOX ▾   protocol

🔘 Auto Baud

🔘 Auto Config

⚪ Set Home Point Once

SDA SCL TX5 RX5-5V GND

SDA SCL TX5 RX5-5V GND
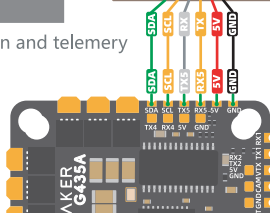
Buzzer:

GEPRC Super Buzzer
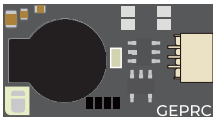
Buzzer
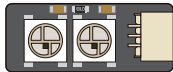
LED

DIN
5V
GND

LED
GND
5V
BUZ-
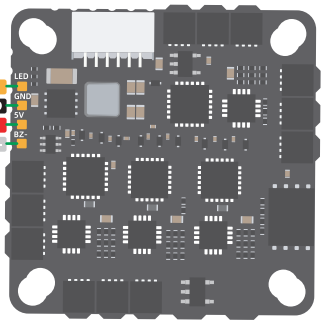
LED
GND
5V
BZ-

DIN
5V
GND

LED Setup:

⚙ Steup	⬤ SERVO_TILT	Servo gimbal
⚙ Ports	⬤ SOFTSERIAL	Enable CPU based serial ports
⚙ Configuration	⬤ SONAR	sonar
⚙ Power&Battery	⬤ TELEMERY	Telemetry output
⚙ Failsafe	⬤ LED_STRIP	Multi-color RGB LED strip support

LED 灯带布线

⚙ Motors	**Wire Ordering Mode**
📡 VideoTransmitter	
🎠 LED Strip	Clear selected Clear ALL Wiring
⚙ Sensors	
⚙ Tethered Logging	

```
┌─┬─┬─┬─┬─┐
│ │ │ │ │ │
├─┼─┼─┼─┼─┤
│ │0│1│2│3│
├─┼─┼─┼─┼─┤
│ │ │ │ │ │
└─┴─┴─┴─┴─┘
```
Choose a color for each LED

LED Functions
Function [Color ▾]

Color modifier   Blink
[Throttle ▾] ▾ ⬤ Blink always

⬤ Larson scanner

Overlay
⬤ Warnings
⬤ Indicator
⬤ VTX (uses vtx frequency to assign color)

LED Orientation ('Modes&Orientaion') and Color

```
        N
        ┌─┐
    ┌───┤ ├───┐   ┌──┬──┬──┬──┐
  W │   │ │   │ E │ 0│ 1│ 2│ 3│
    └───┤ ├───┘   ├──┼──┼──┼──┤
        └─┘       │ 4│ 5│ 6│ 7│
        S         ├──┼──┼──┼──┤
                  │ 8│ 9│10│11│
      U  D        ├──┼──┼──┼──┤
                  │12│13│14│15│
                  └──┴──┴──┴──┘
```

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.

Manual

geprc.com/support

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www.geprc.com

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You Tube

youtube.com/geprc