

## FC:

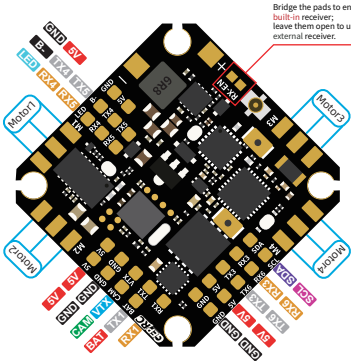
target:	GEPRC_TAKER_F405 AIO
MCU:	STM32F405BGA
IMU:	ICM 42688-P
BLACKBOX:	16MB
Baro:	YES
BEC:	2.5A
Size:	31.5mm x 31.5mm
Install hole:	25.5mm x 25.5mm
Input Voltage:	2-4S LiPo
Uart:	5 Set

## ESC:

Continuous Current:	20A
Burst Current:	25A(4S)
Input Voltage:	2-4S(8.4V-14.8V)
Firmwar:	<a href="#">Bluejay</a>



## 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

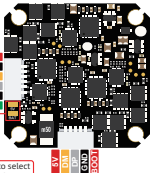
- The UART for the receiver must be set to 'Serial Rx'(in the Ports tab)
- Select the correct data format from the drop-down, below:

SBUS ▾ Serial Receiver Provider

DJI O3 AIR Unit: 7.4-26.4v

DJI AIR Unit : 7.4-17.6v

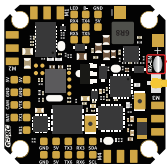
DJI Vista : 7.4-26.4v



If using an external receiver, disconnect this line

Bridge the corresponding pads to select the desired VTX power-supply voltage.

# Receiver: (Built-in ELRS2.4G)



To use the built-in ELRS 2.4G receiver, please bridge the power pads



	Identifier	Configuration/MSP	Serial Rx	Telemetry Output	
Presets	USB VCP	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>	Disabled ▾	AUTO ▾
PID Tuning	UART1	<input checked="" type="checkbox"/> 115200 ▾	<input type="checkbox"/>	Disabled ▾	AUTO ▾
Receiver	UART2	<input type="checkbox"/> 115200 ▾	<input checked="" type="checkbox"/>	Disabled ▾	AUTO ▾
Modes	UART3	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>	Disabled ▾	AUTO ▾
Adjustments	UART4	<input type="checkbox"/> 115200 ▾	<input type="checkbox"/>	Disabled ▾	AUTO ▾
Motors					

PID

Receiver

Modes

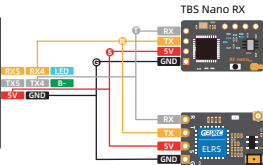
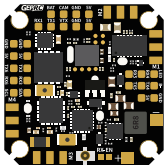
Receiver

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: (TBS Nano RX/ELRS)



- Presets
- PID Tuning
- Receiver
- Modes
- Adjustments
- Motors

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	
USB VCP	<input checked="" type="checkbox"/> 115200 ▼	<input type="checkbox"/>	Disabled ▼	AUTO ▼
UART1	<input checked="" type="checkbox"/> 115200 ▼	<input type="checkbox"/>	Disabled ▼	AUTO ▼
UART2	<input type="checkbox"/> 115200 ▼	<input type="checkbox"/>	Disabled ▼	AUTO ▼
UART3	<input type="checkbox"/> 115200 ▼	<input type="checkbox"/>	Disabled ▼	AUTO ▼
UART4	<input type="checkbox"/> 115200 ▼	<input checked="" type="checkbox"/>	Disabled ▼	AUTO ▼

- PID
- Receiver
- Modes

Receiver

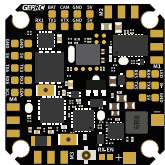
Serial(via UART) ▼ Receiver Mode

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)

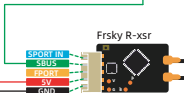
This socket is on the back



RX5  
TX5  
5V  
RX4  
TX4  
GND  
LED  
B-



BAT  
GND  
T1  
R1  
GND  
R2



Frsky R-xsr

- Setup
- Ports
- Configuration
- Power&Battery
- Failsafe

Identifier	Configuration/MSP	Receiver
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"/>

- PID
- Receiver
- Modes

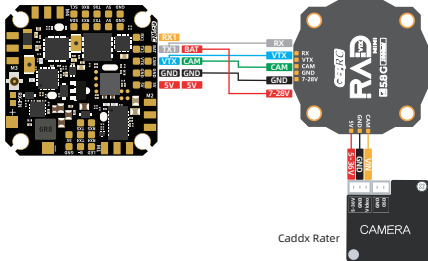
Receiver

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:

SBUS ▾ Serial Receiver Provider

# Analog VTX:



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

# GPS:

Setup

Ports

Configuration

Power&Battery

Failsafe

Identifier		Sensor Input	
USB VCP		Disabled ▾	AUTO ▾
UART1		Disabled ▾	AUTO ▾
UART2		Disabled ▾	AUTO ▾
.....		..... ▾	..... ▾
UART6	→	GPS ▾	115200 ▾

Setup

Ports

Configuration

Power&Battery

Failsafe

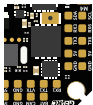
GPS GPS for navigation and telemetry

UBLOX ▾ protocol

Auto Baud

Auto Config

Set Home Point Once



# Buzzer&LED:

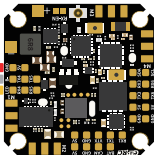
GEPRC Super Buzzer



BUZZER



LED



# LED Setup:

- Setup
- Ports
- Configuration**
- Power&Battery
- Failsafe

## Other Features

SERVO\_TILT

Servo gimbal

SOFTSERIAL

Enable CPU based serial ports

SONAR

sonar

TELEMETRY

Telemetry output

LED\_STRIP

Multi-color RGB LED strip support

- Motors
- VideoTransmitter
- LED Strip**
- Sensors
- Tethered Logging

## LED Strip Wiring

Wire Ordering Mode

Clear selected

Clear ALL Wiring



Choose a color for each LED

## LED Functions

Function **Color**

Color modifier

Blink

Throttle  Blink always

Larson scanner

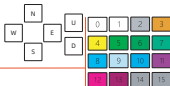
Overlay

Warnings

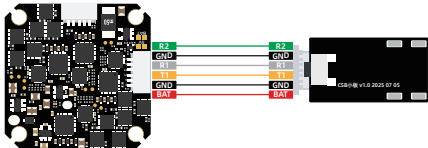
Indicator

VTX (uses vtx frequency to assign color)

LED Orientation ('Modes&Orientation') and Color



# Definition of USB Tuning Board Wiring:



## 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.
- 

facebook



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

Official  
website



[www.geprc.com](http://www.geprc.com)

Instagram



[instagram.com/geprc](https://instagram.com/geprc)

YouTube



[youtube.com/geprc](https://youtube.com/geprc)

Manual



[geprc.com/support](http://geprc.com/support)