TAKER F722 45A 32Bit AIO Manual

FC:

target:	GEPRC_F722_AIO
MCU:	STM32F722RET6
IMU:	ICM 42688-P
BLACKBOX:	16MB
Baro:	YES
BEC:	5V 3A
Size:	35.0mm x 34.3mm
Install hole:	25.5mm x 25.5mm
Input Voltage:	2-6S LiPo
Uart:	5 Set

ESC:

Continuous Current: 45A

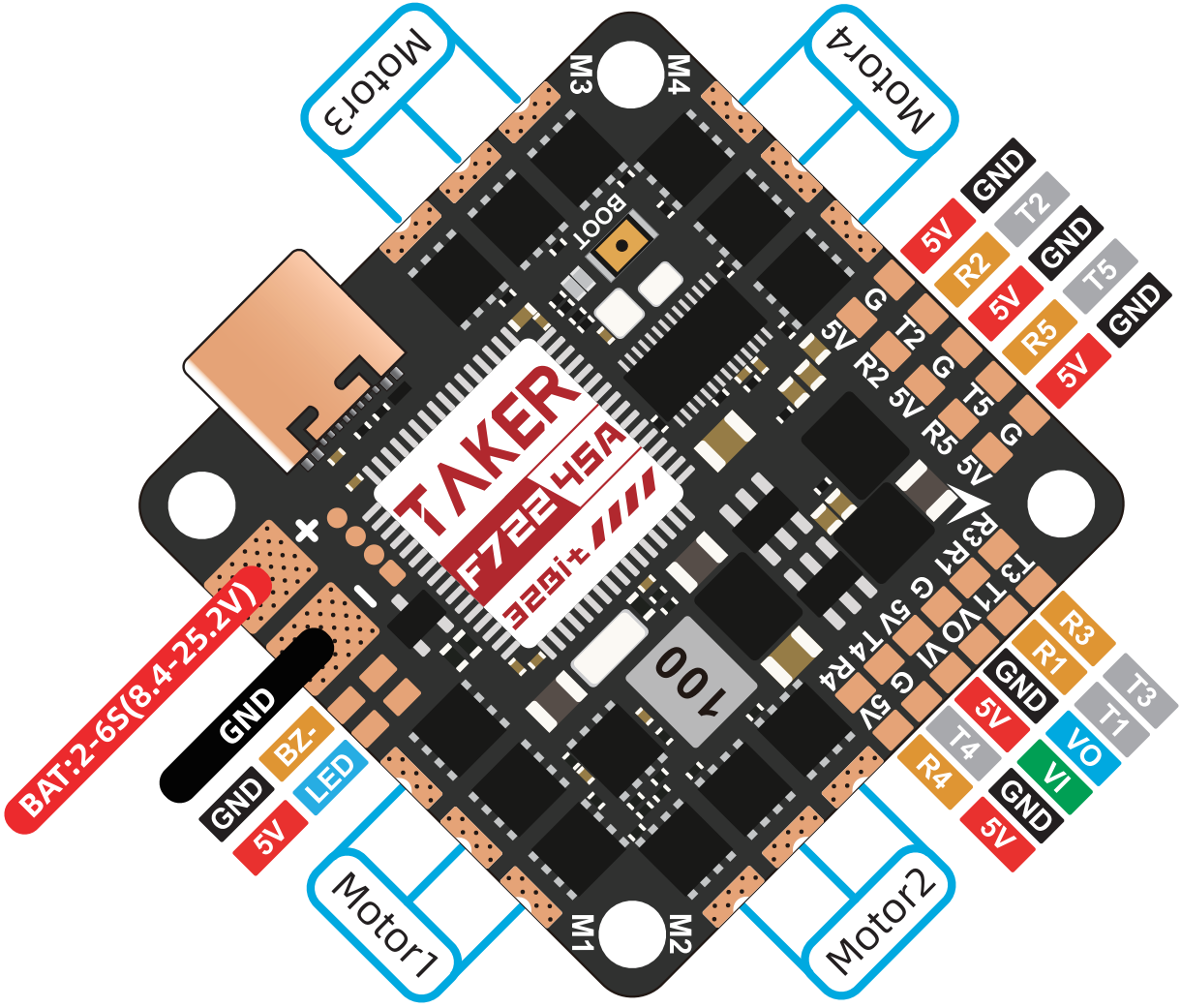
Burst Current: 50A(5S)

Input Voltage: 2-6S（8.4-25.2V）

Firmwar: BLHeli32

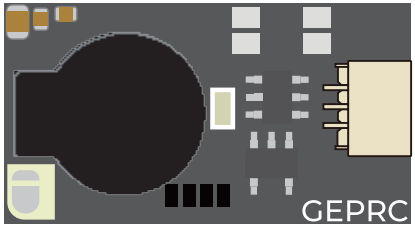
GET IT ON Google Play

Interface definition:



Buzzer&LED:

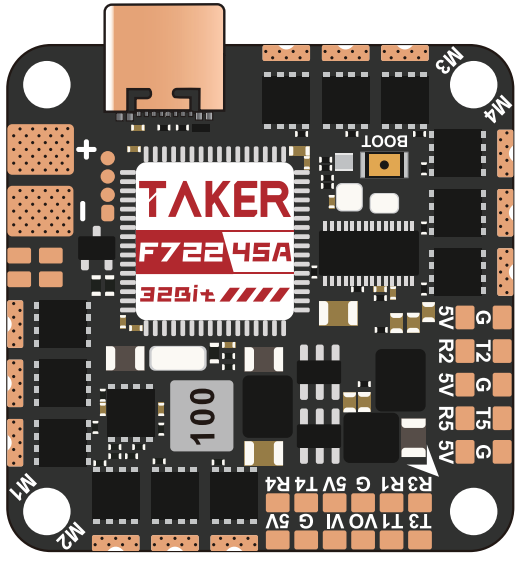
GEPRC Super Buzzer

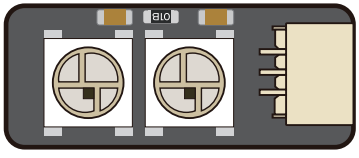


BZ-
5V
GND

BUZZER

GND
5V
BZ-
LED





DIN
5V
GND

LED

DJI FPV Digital System：

- Setup
- Ports
- Configuration
- Power&Battery
- Failsafe
- PID
- Receiver
- Modes

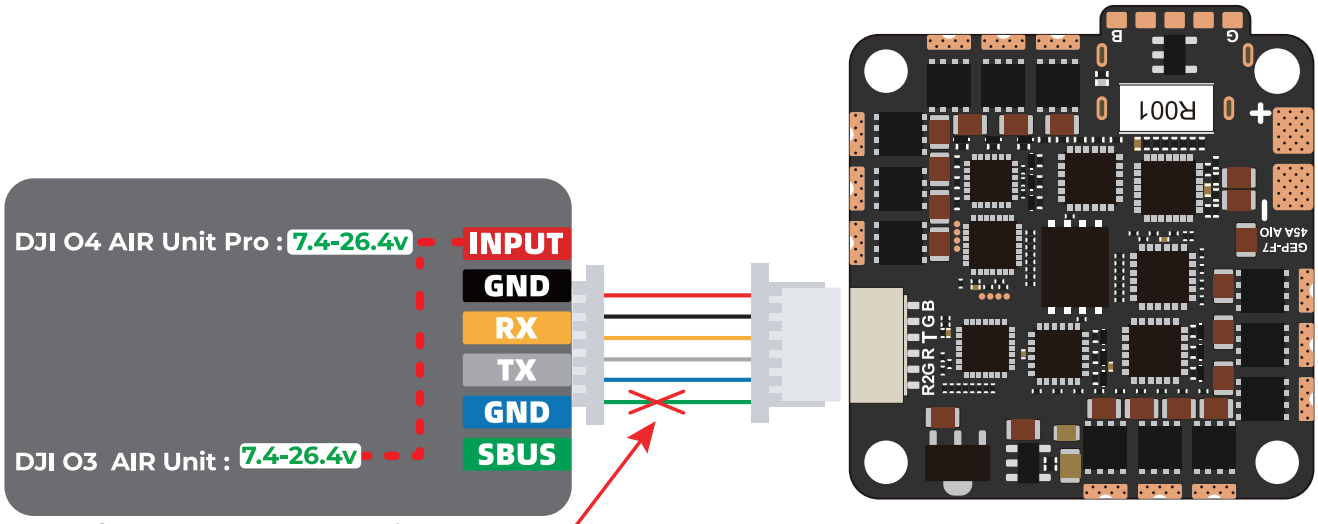
Identifier	Configuration/MSP	Serial RX
USB VCP	115200 ▾	
UART1	115200 ▾	
UART2	115200 ▾	

Receiver

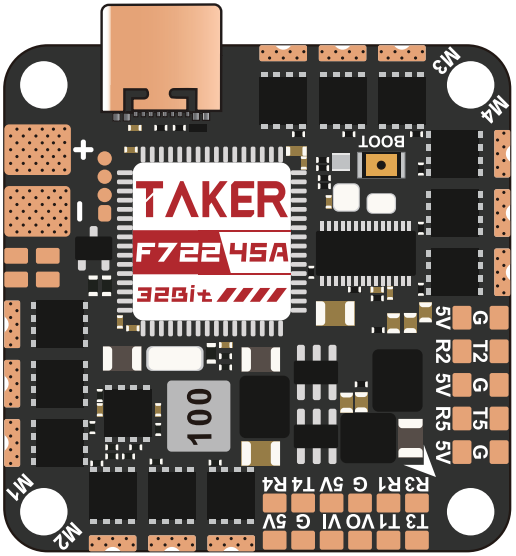
Serial（Via UART） ▾ Receiver Mode

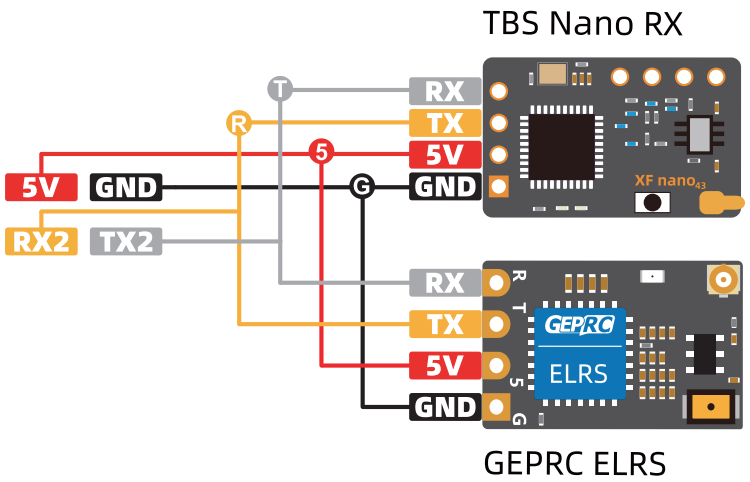
- The UART for the receiver must be set to 'Serial Rx'(in the Ports tab)
- Select the correct data format from the drop-down,below:

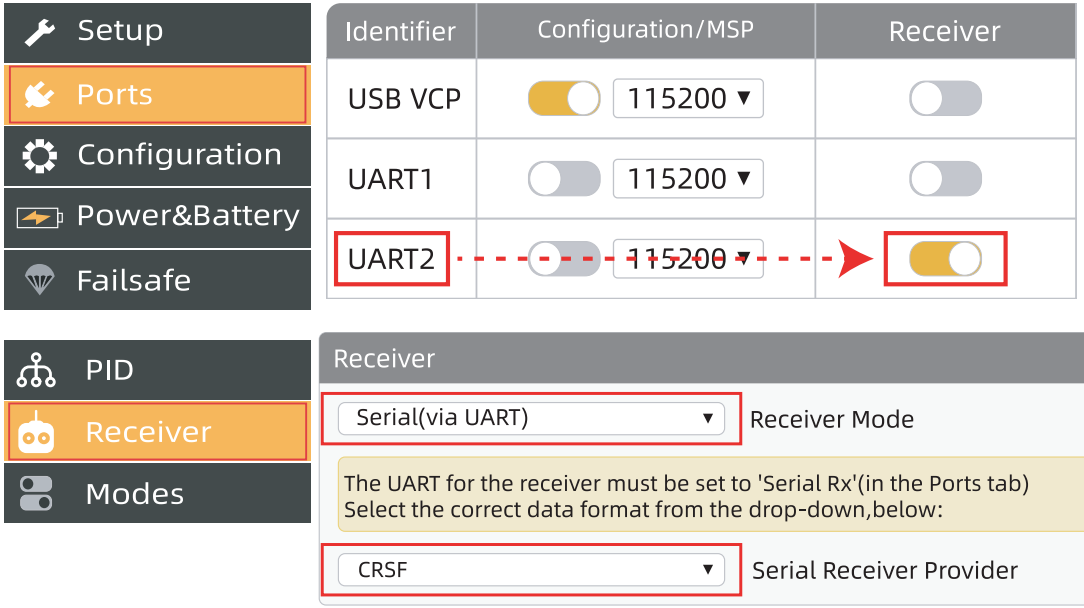
SBUS ▾ Serial Receiver Provider



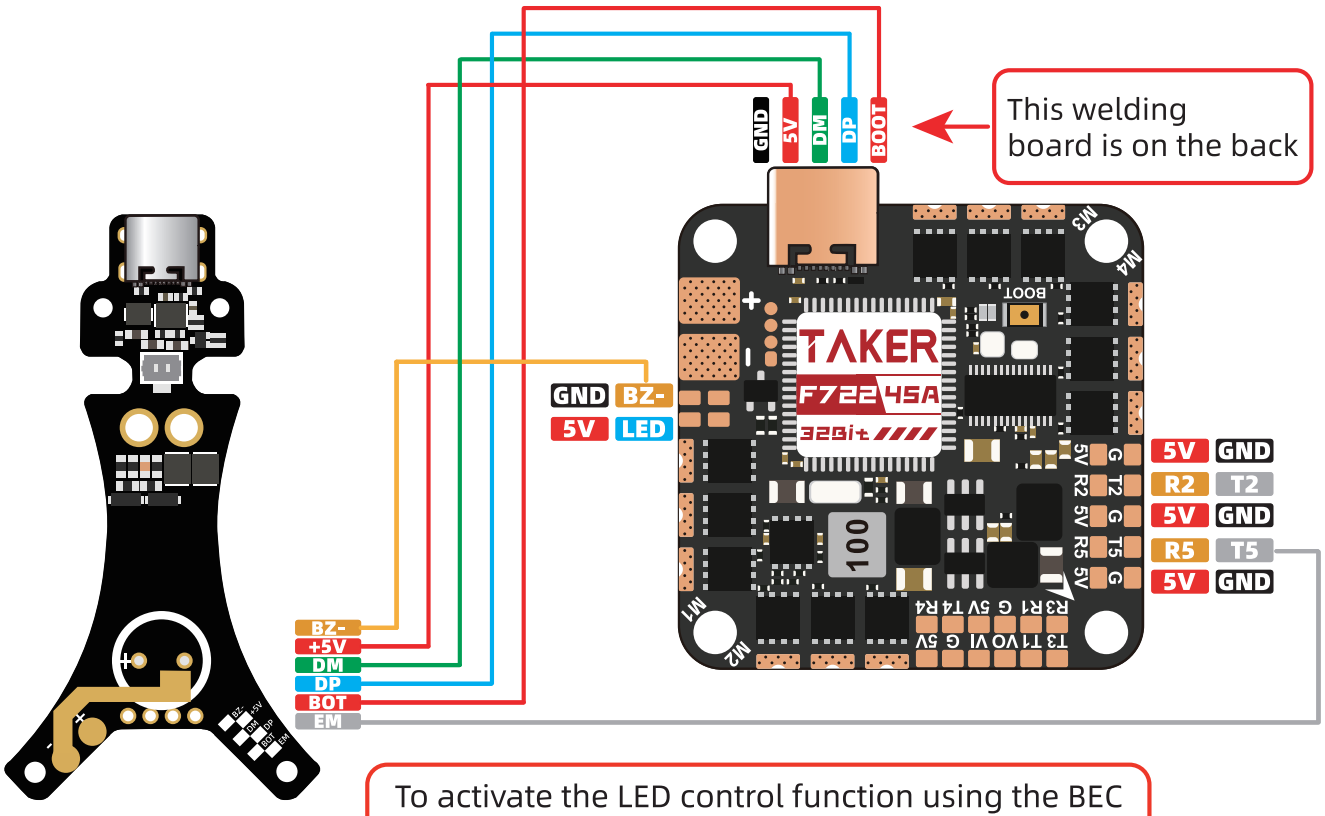
Receiver: （TBS Nano RX/ELRS）







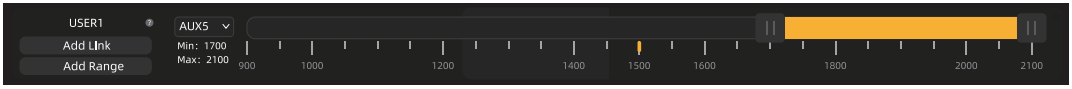
CineLog30 V3 Custom Feature Edition:



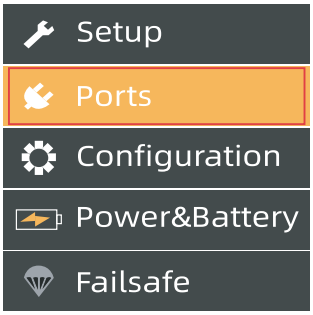
To activate the LED control function using the BEC on the EM pin, flash this configuration:

resource SERIAL TX 5 none
resource PINIO 2 C12
set pinio config = 129,1,1,1
set pinio box = 39,40,41,42
save

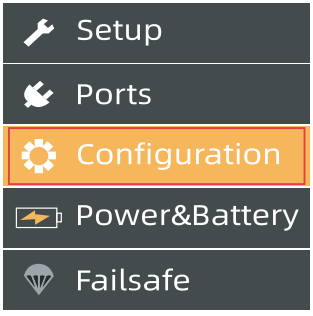
Then, open the "Modes" tab and enable the channel switch



GPS:



Identifer		Sensor Input	
USB VCP		Disabled	AUTO
UART1		Disabled	AUTO
UART2		Disabled	AUTO
.....		.....	.....
UART4	..... →	GPS	115200



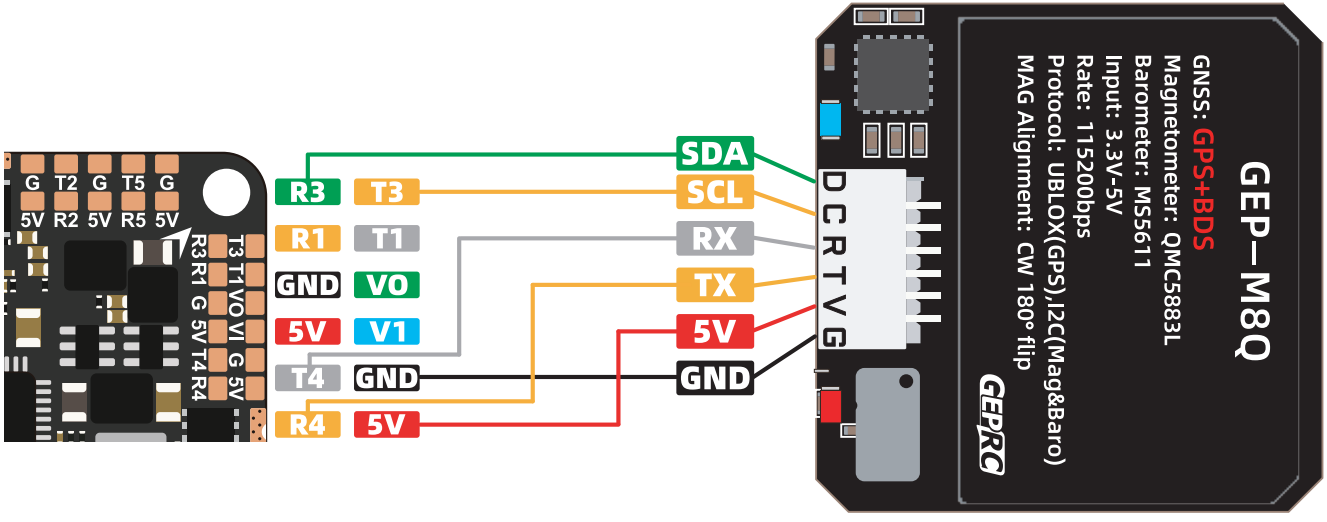
GPS GPS for navigation and telemery

UBLOX protocol

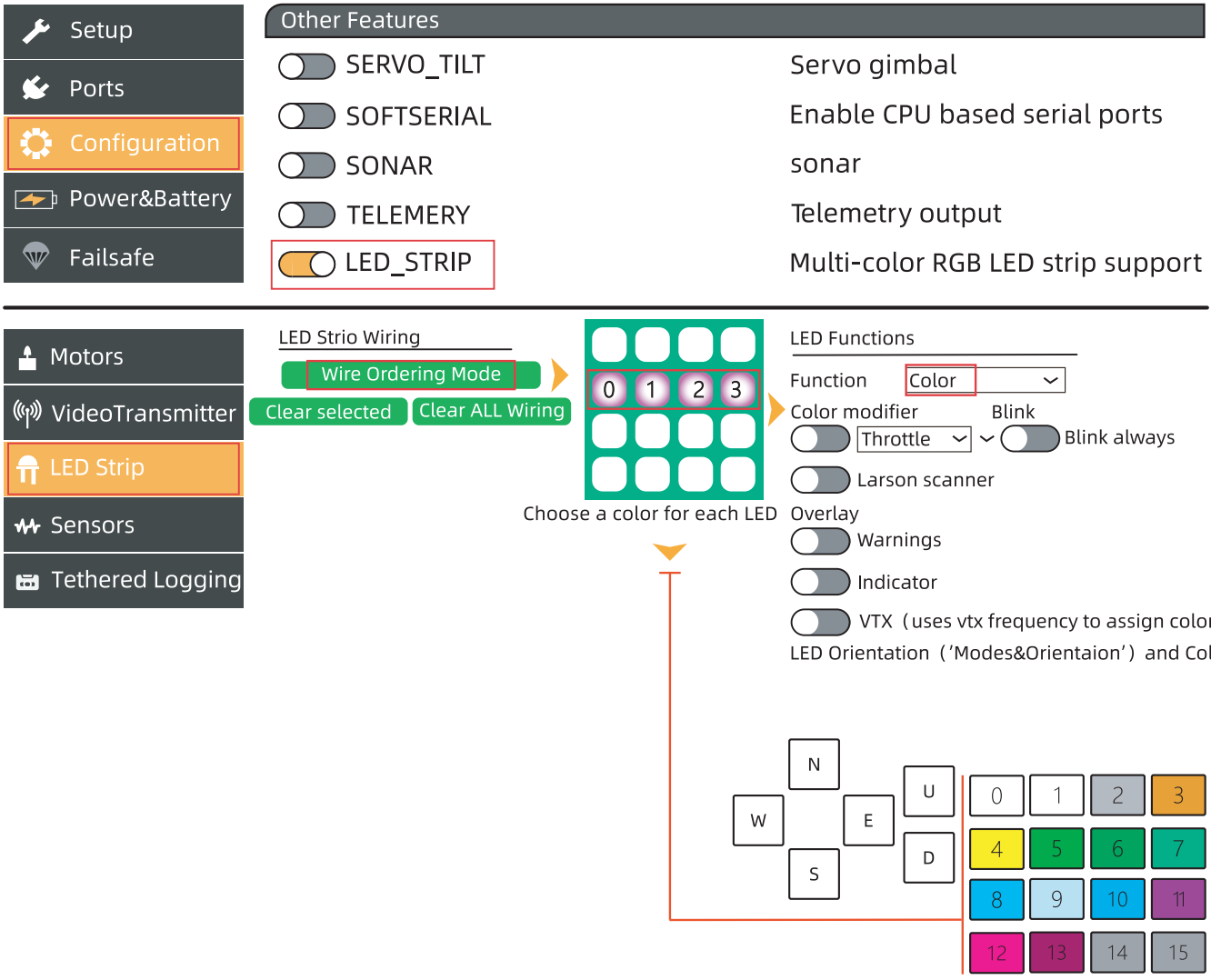
Auto Baud

Auto Config

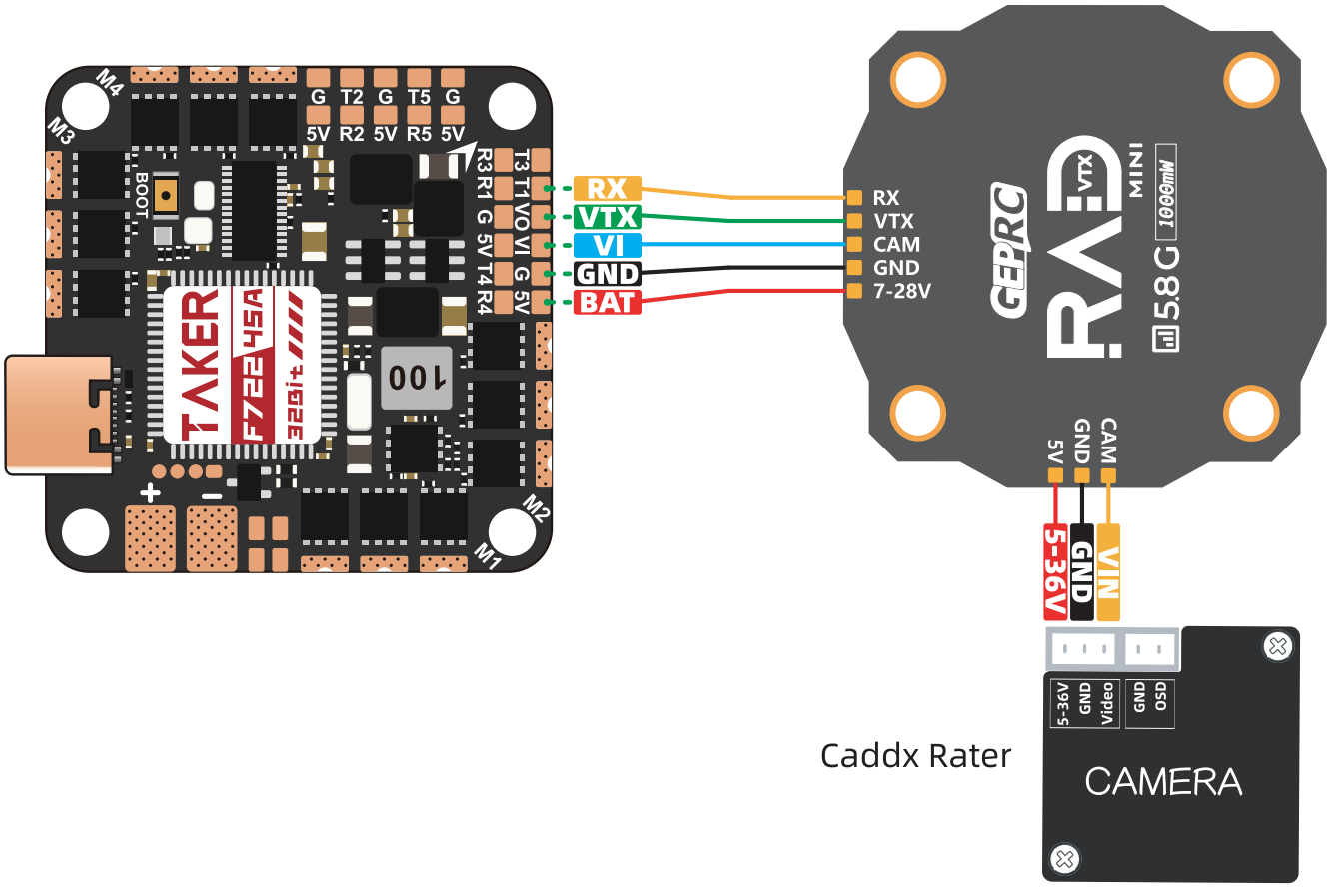
Set Home Point Once



LED Setup:

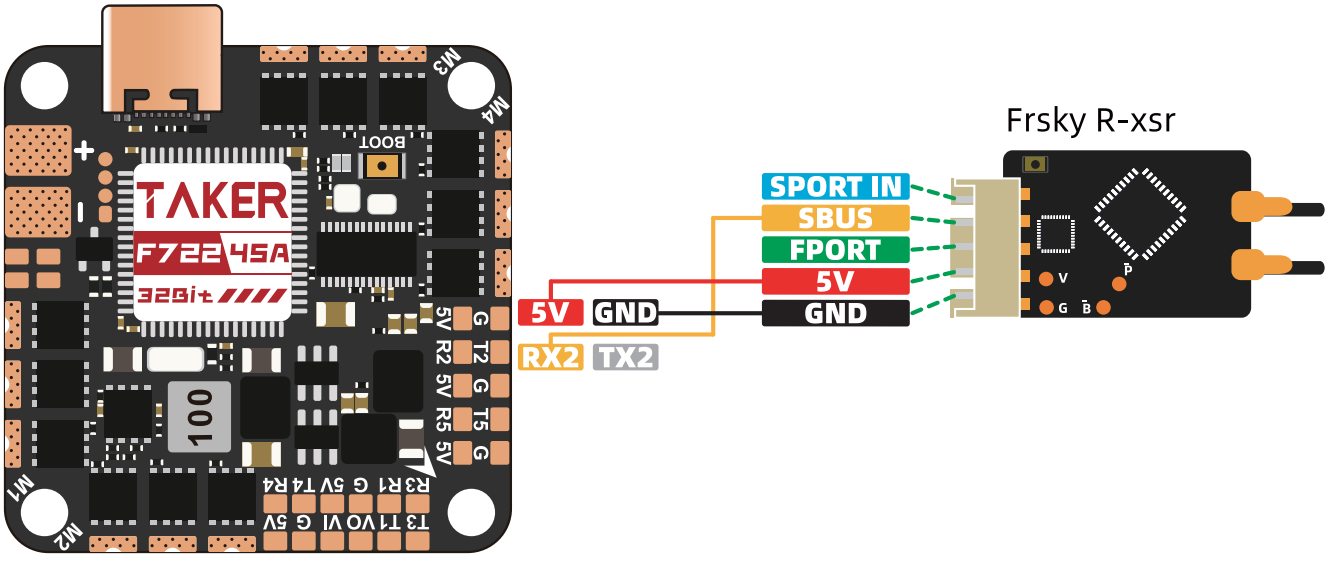

Setup
Ports
Configuration
Power&Battery
Failsafe
Other Features
SERVO_TILT
Servo gimbal
SOFTSERIAL
Enable CPU based serial ports
SONAR
sonar
TELEMERY
Telemetry output
LED_STRIP
Multi-color RGB LED strip support
Motors
VideoTransmitter
LED Strip
Sensors
Tethered Logging
LED Strio Wiring
Wire Ordering Mode
Clear selected
Clear ALL Wiring
0 1 2 3
Choose a color for each LED
LED Functions
Function
Color
Color modifier
Throttle
Blink
Blink always
Larson scanner
Overlay
Warnings
Indicator
VTX（uses vtx frequency to assign color）
LED Orientation（'Modes&Orientaion'）and Color
N
W
E
S
U
D
0 1 2 3
4 5 6 7
8 9 10 11
12 13 14 15

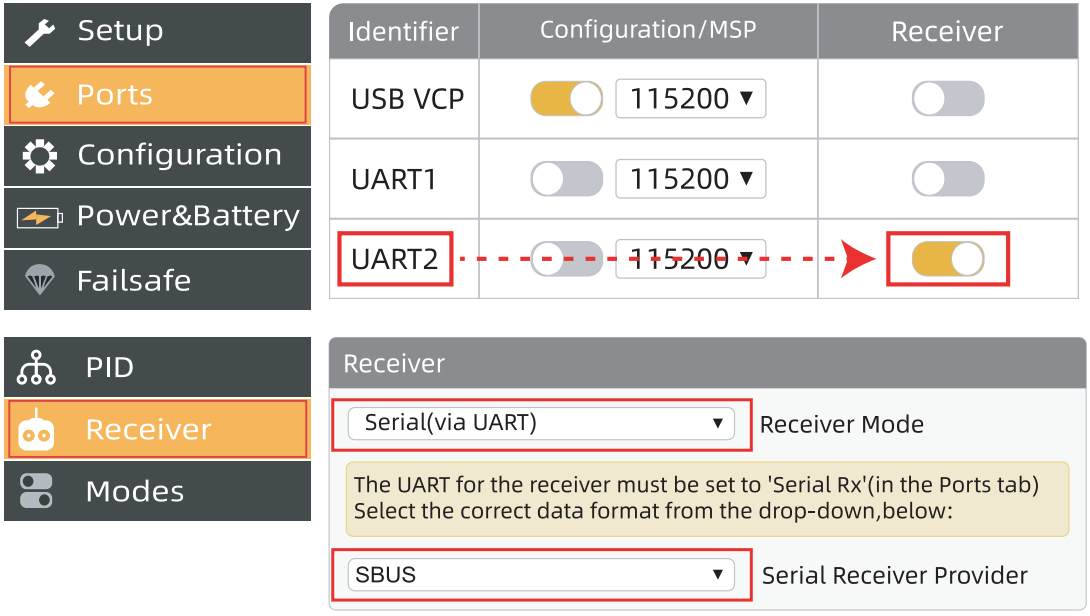
Analog VTX:

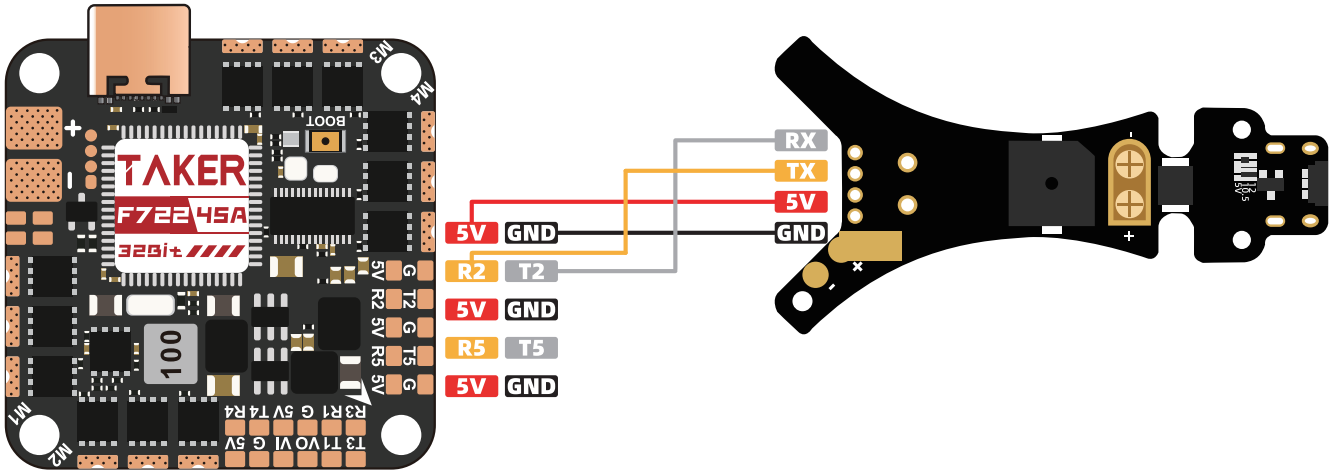


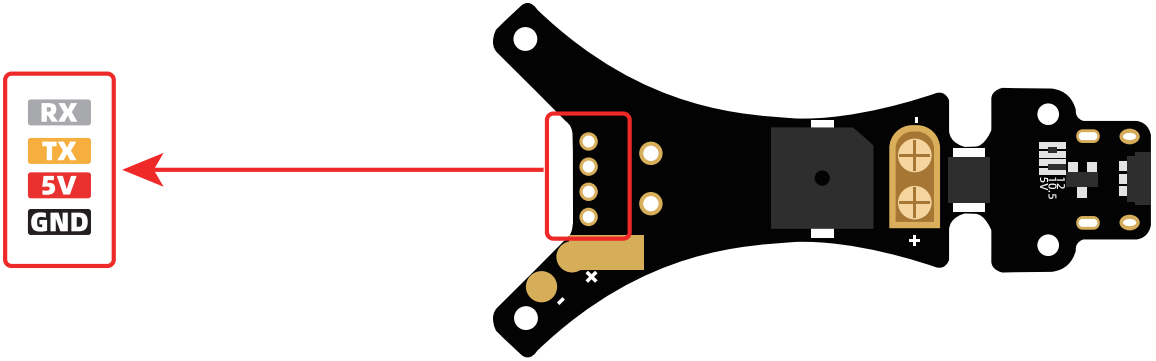
Setup	Identifier	Configuration/MSP	.....	Peripherals	
Ports	USB VCP	115200	.....	Disabled	AUTO
Configuration	UART1	115200	.....	VTX (IRC Tramp)	AUTO
	UART2	115200	.....	Disabled	AUTO

Receiver: (Frsky R-xsr)






TAKER
F722 45A
BOOT
M1
M2
M3
M4
5V GND
R2 T2
5V GND
R5 T5
5V GND
RX
TX
5V
GND


RX
TX
5V
GND

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.

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