

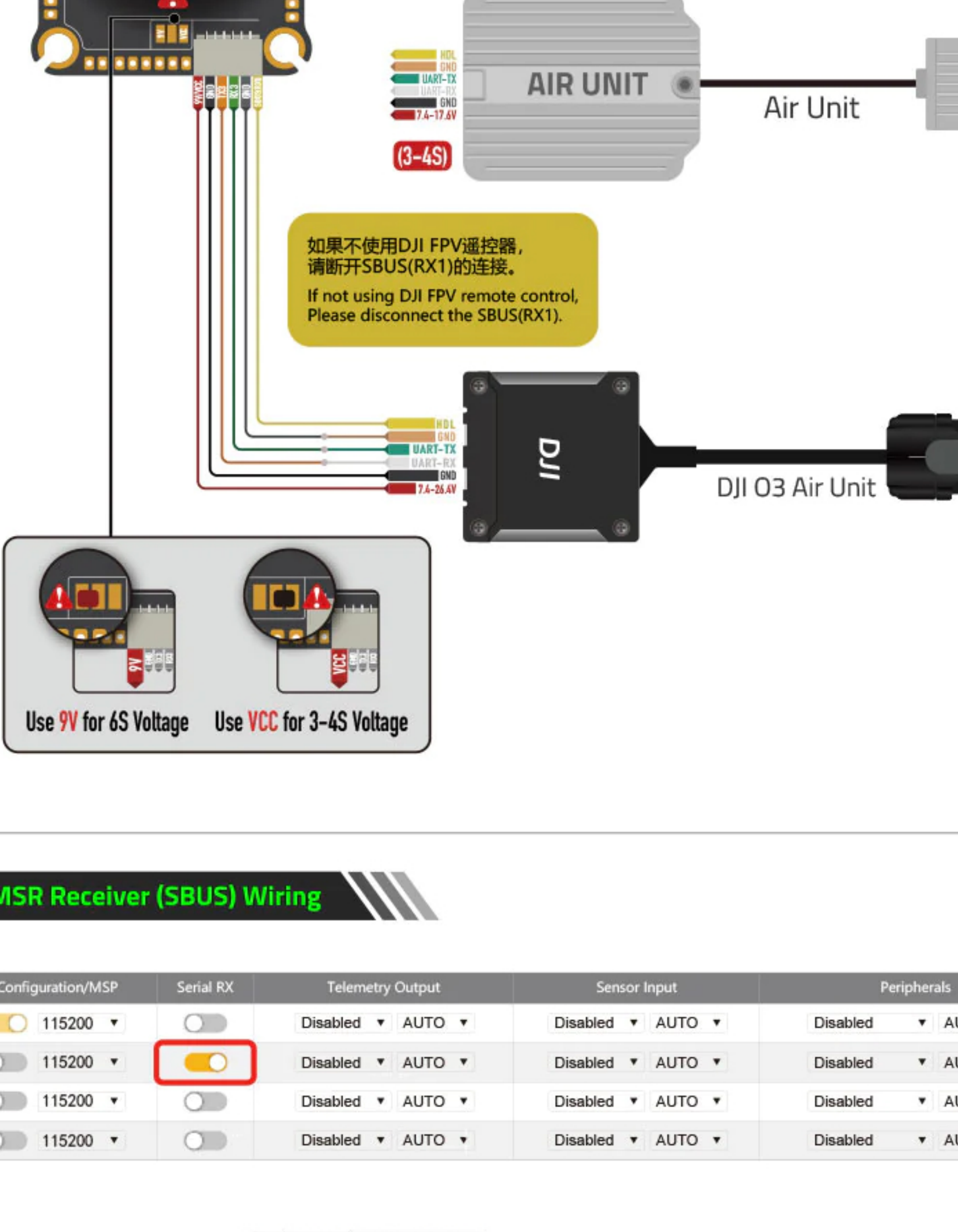
# MAMBA UNIVERSAL WIRING GUIDE



## MAMBA F405 MK2 V2

### DJI Wiring

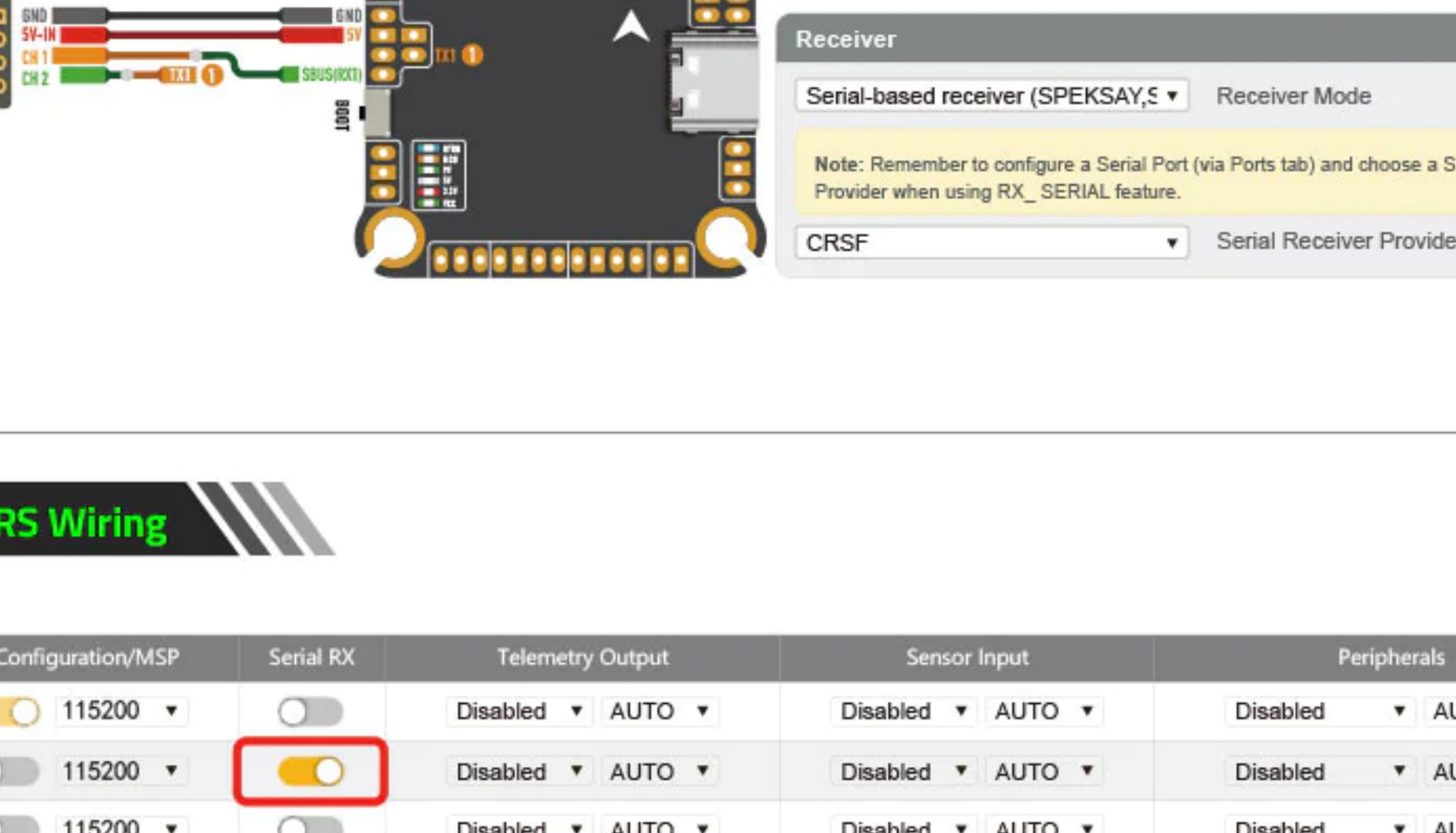
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USB VCP	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 1	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled



Use 9V for 4S Voltage Use VCC for 3-4S Voltage

### MAMBA MSR Receiver (SBus) Wiring

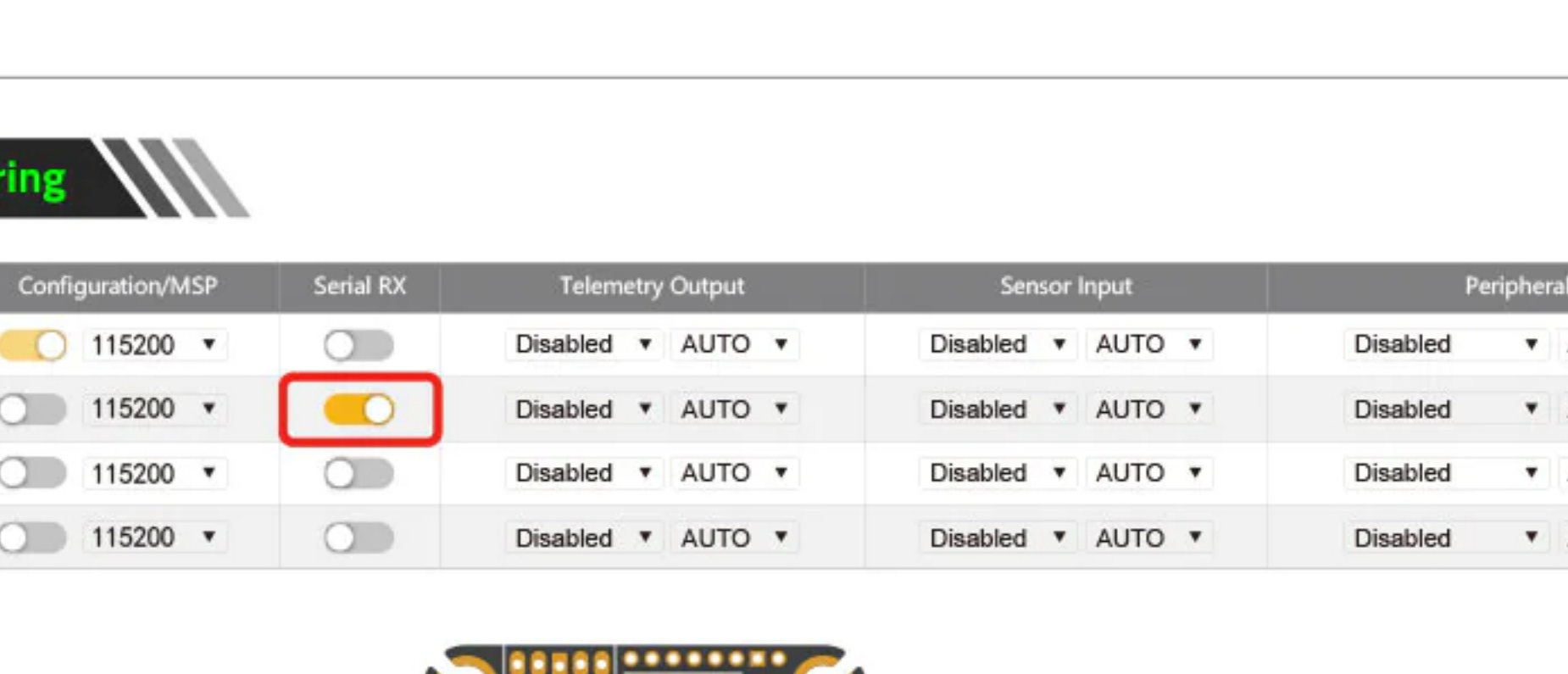
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USB VCP	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 1	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled



Receiver: Serial-based receiver (SPEKSAYS) 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

### TBS CROSSFIRE NANO Wiring

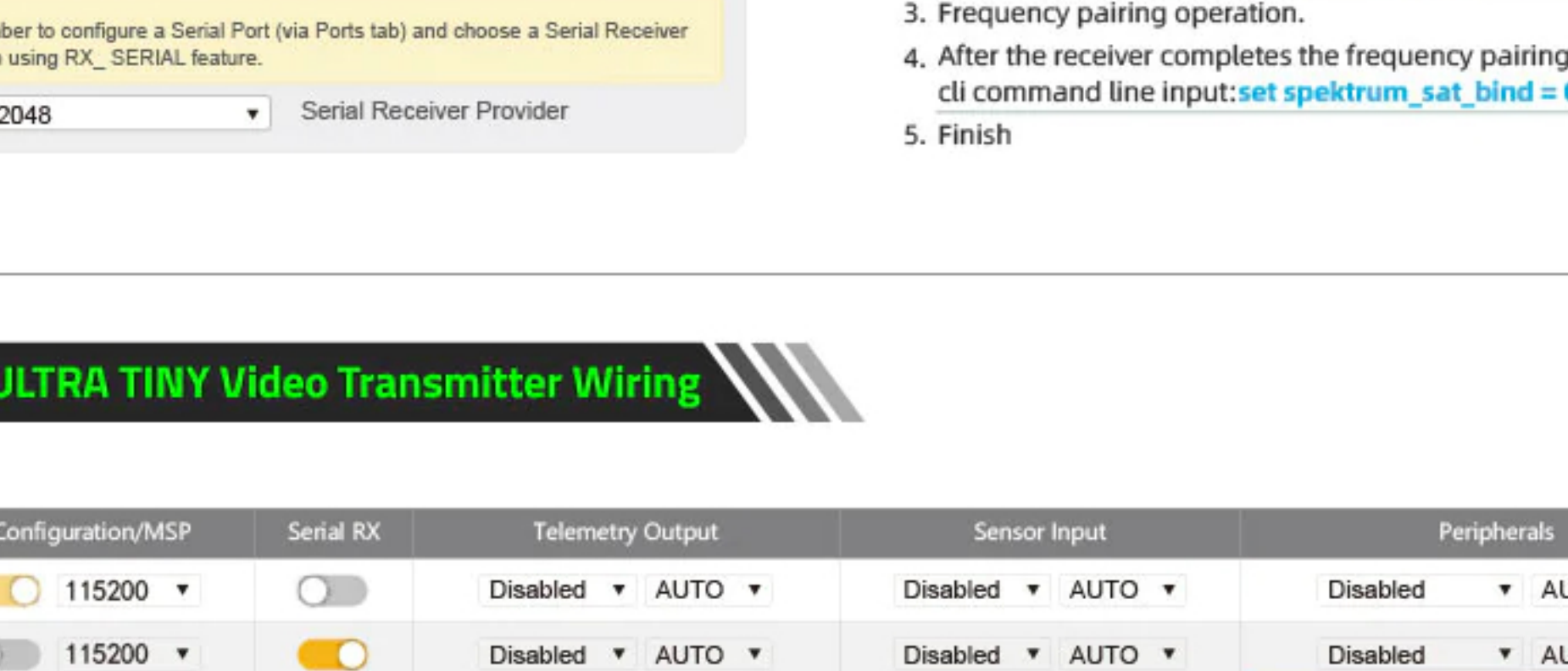
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USB VCP	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 1	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled



Receiver: Serial-based receiver (SPEKSAYS) Receiver Mode  
Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX\_SERIAL feature.  
CRSF Serial Receiver Provider

### ExpressLRS Wiring

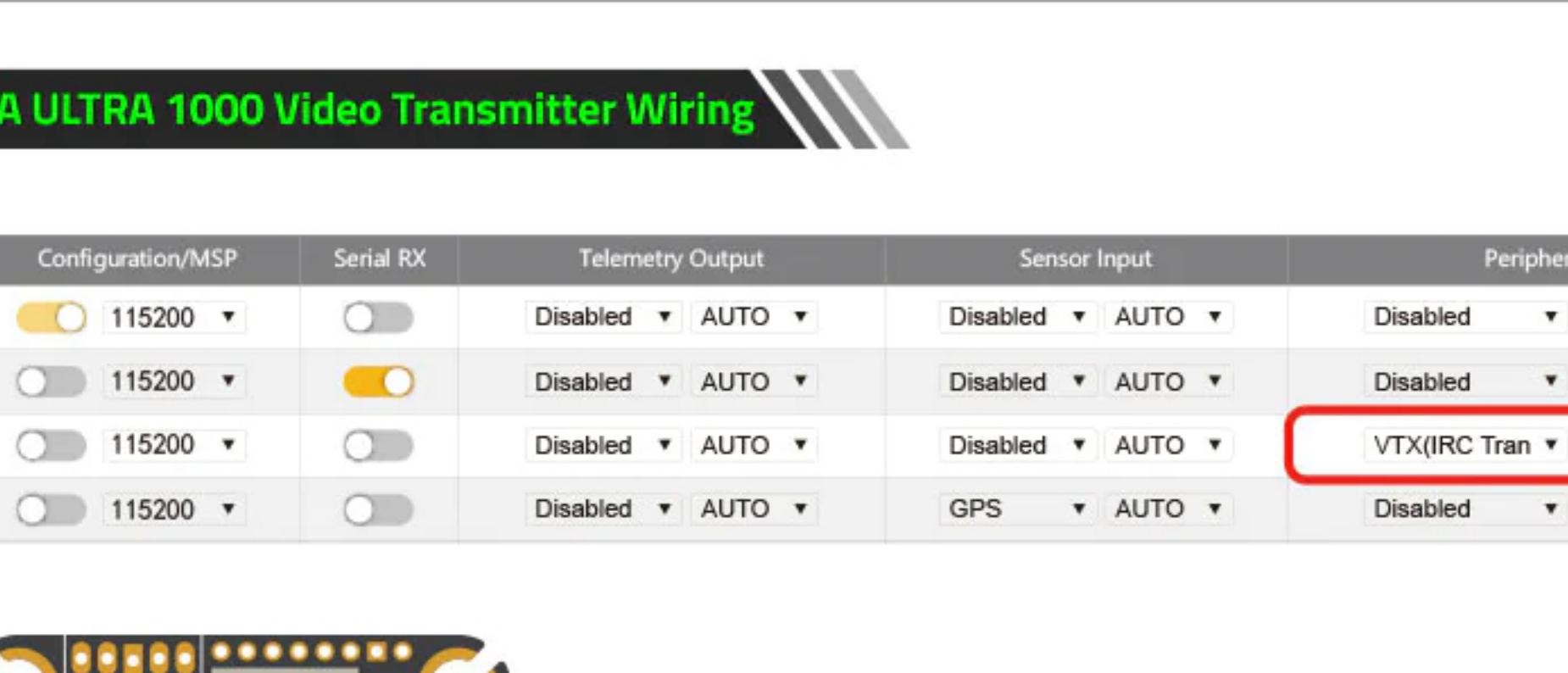
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USB VCP	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 1	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled



Receiver: Serial-based receiver (SPEKSAYS) Receiver Mode  
Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX\_SERIAL feature.  
CRSF Serial Receiver Provider

### DSM Wiring

Identifier	Configuration/MSP	Serial RX	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 1	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled



Receiver: Serial-based receiver (SPEKSAYS) Receiver Mode  
SPEKTRUM2048 Serial Receiver Provider

#### DSM接收机需要按步骤操作

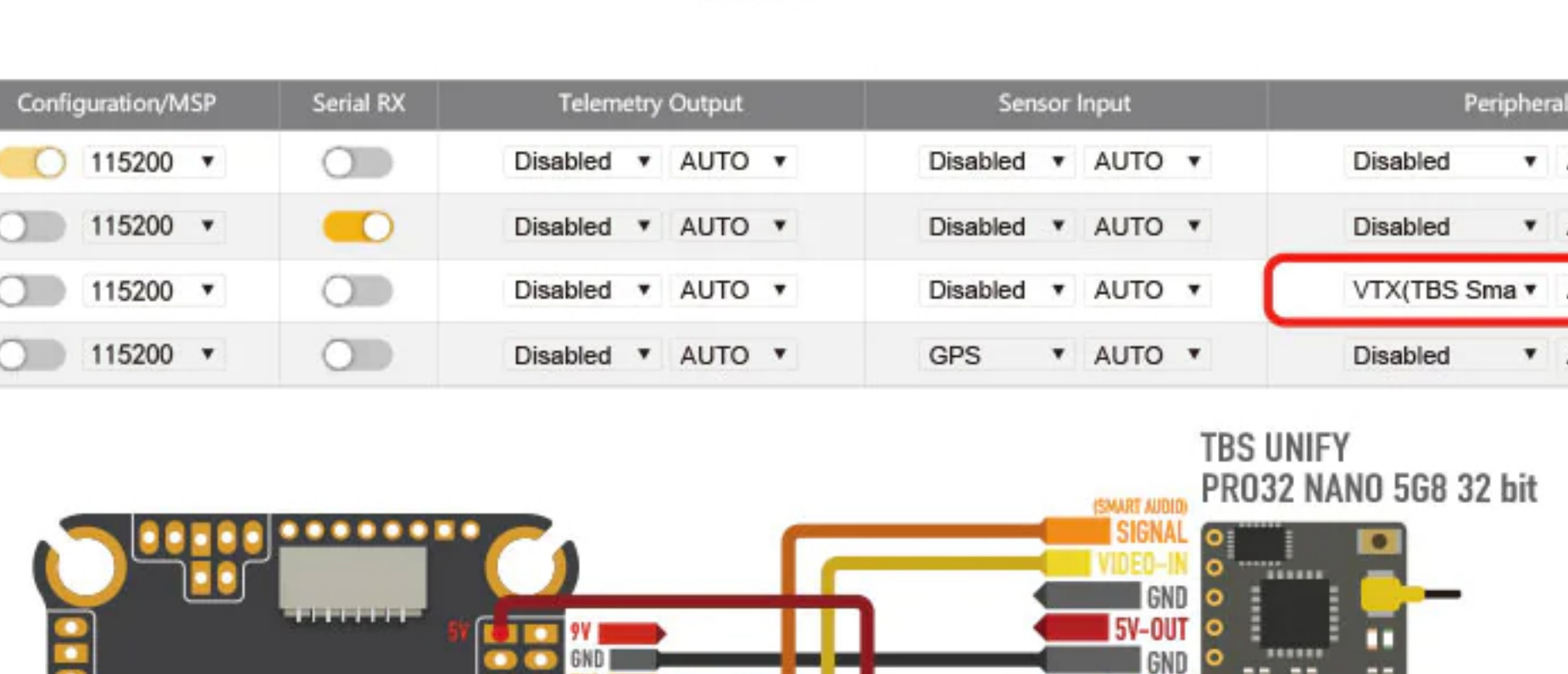
- 选择DSMX协议: (SPEKTRUM1024或SPEKTRUM2048)
- betafightt设置; cli命令行输入: `set spektrum_sat_bind = 5 save`
- 对频操作;
- 接收机对频完成后, betafightt设置; cli命令行输入: `set spektrum_sat_bind = 0 save`
- 完成。

#### DSM receivers need to follow the steps

- Select DSMX protocol (SPEKTRUM1024 or SPEKTRUM2048)
- betafightt settings; cli command line input: `set spektrum_sat_bind = 5 save`
- Frequency pairing operation.
- After the receiver completes the frequency pairing, set betafightt cli command line input: `set spektrum_sat_bind = 0 save`
- Finish

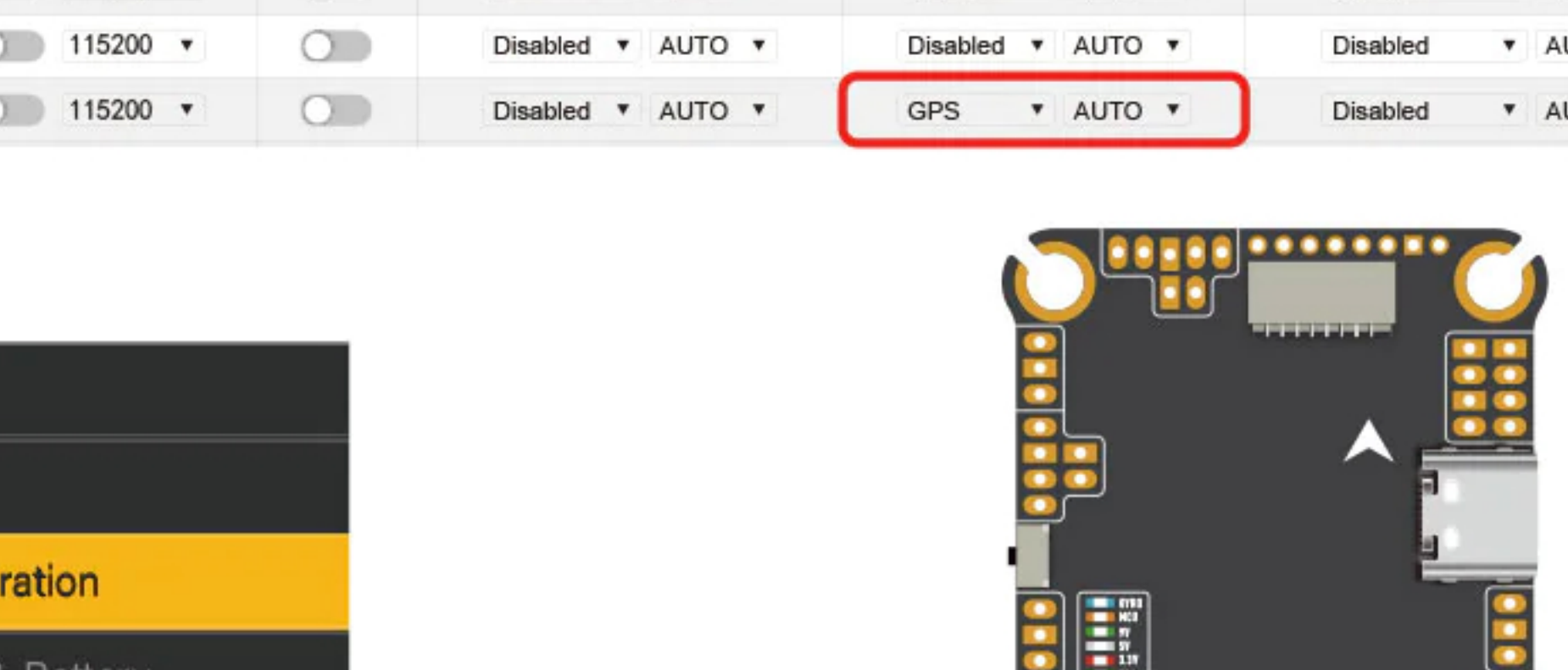
### MAMBA ULTRA TINY Video Transmitter Wiring

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UART 1	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	VTX(IIRC Tran) AUTO
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled



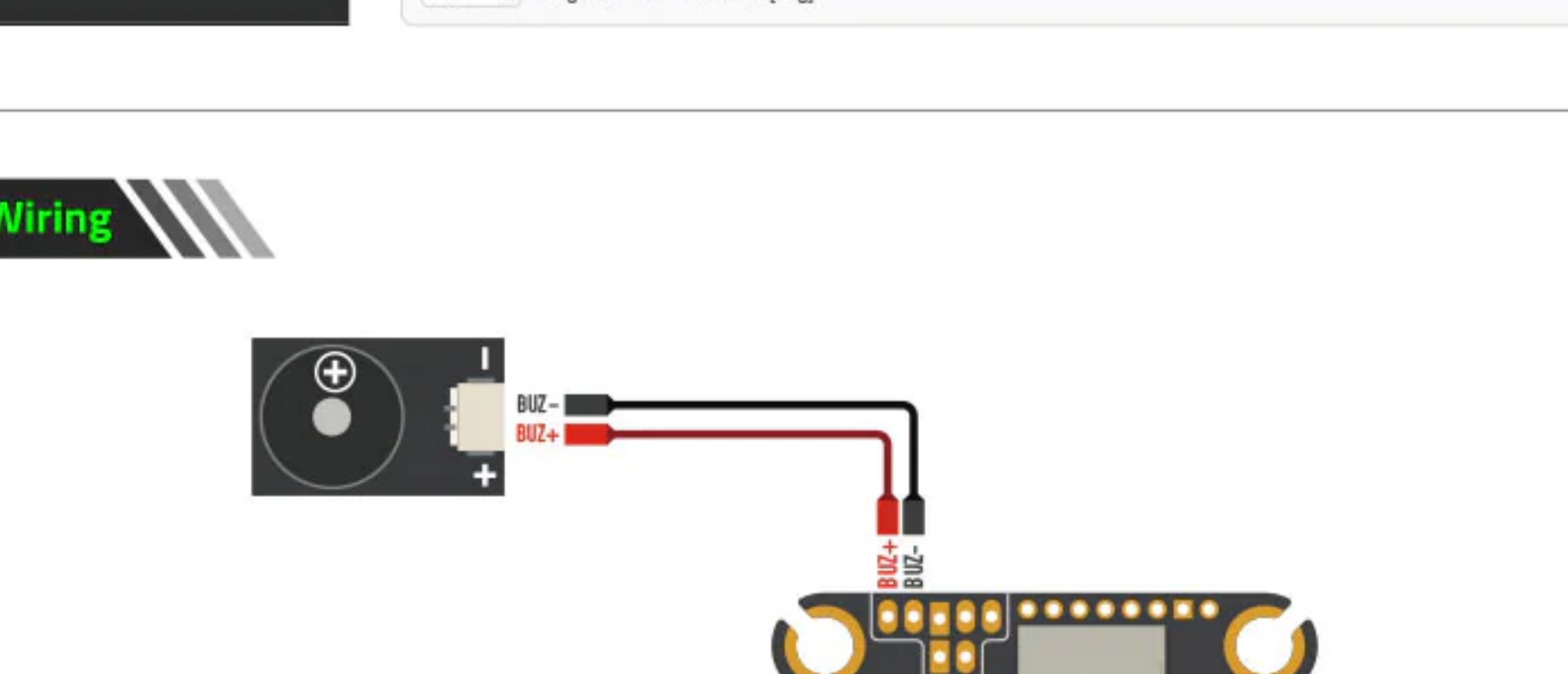
### MAMBA ULTRA 1000 Video Transmitter Wiring

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USB VCP	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 1	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	VTX(IIRC Tran) AUTO
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled



### TBS UNIFY PRO32 NANO 5G8 32 bit Wiring

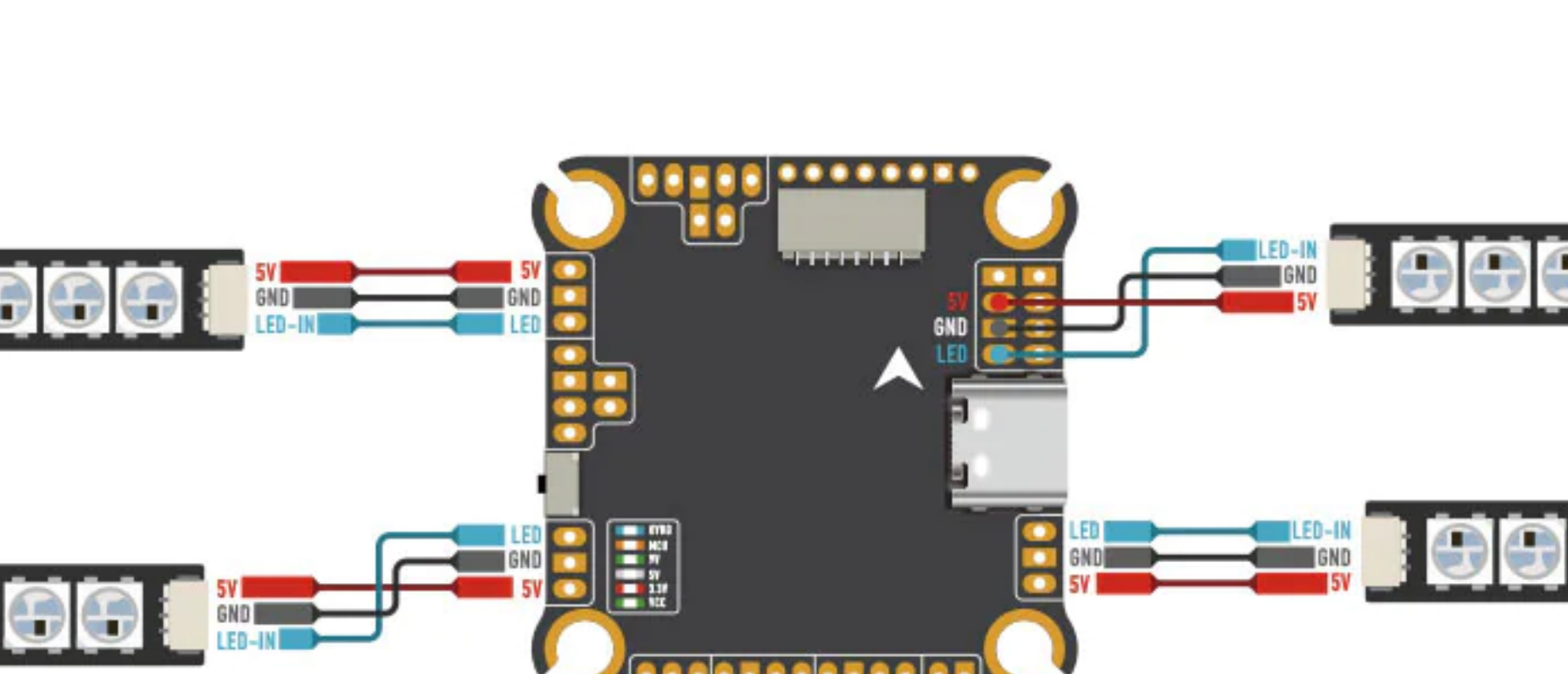
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USB VCP	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 1	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	VTX(TBS Sma) AUTO
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled



TBS UNIFY PRO32 NANO 5G8 32 bit

### MAMBA M22/M8 PLUS GPS Wiring

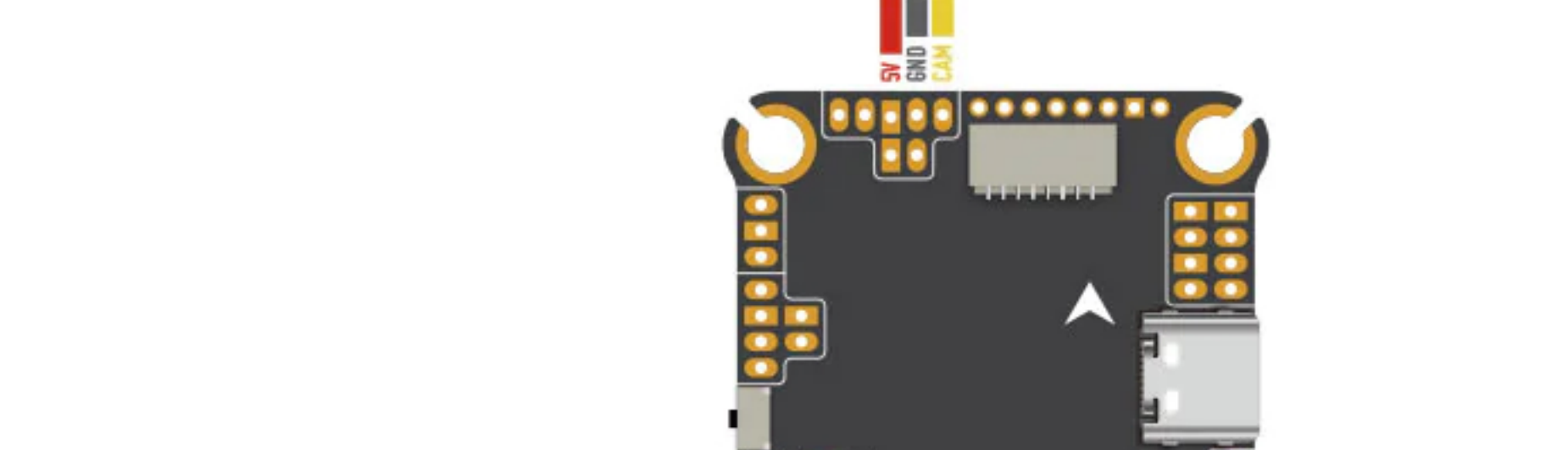
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UART 1	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 3	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled
UART 6	115200	<input type="checkbox"/>	Disabled	AUTO	GPS



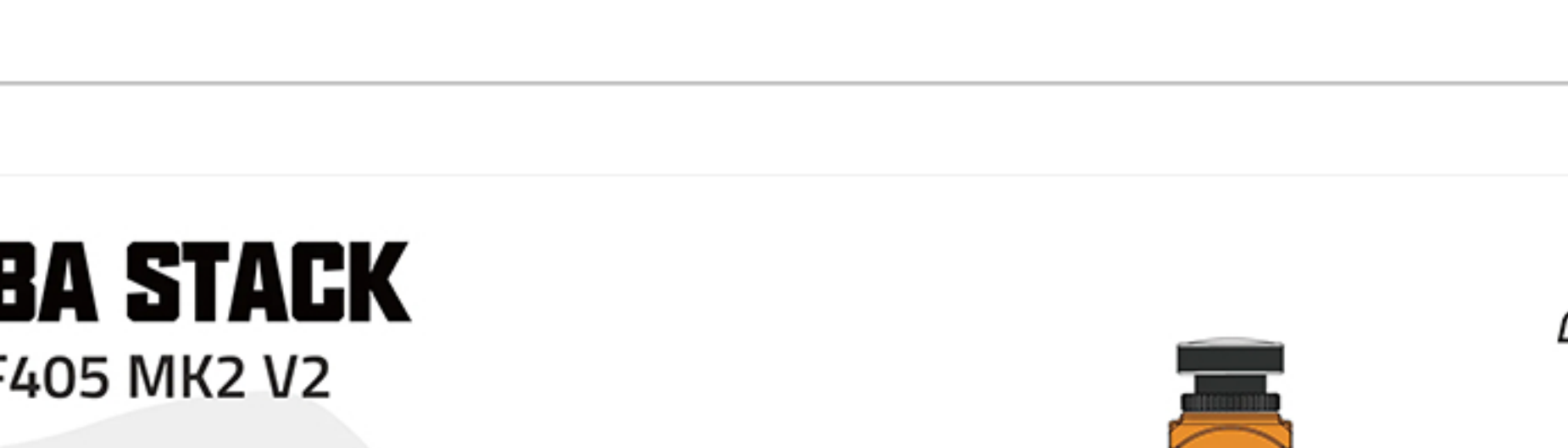
Setup: Configuration

GPS: GPS for navigation and telemetry. Note: Remember to configure a Serial Port (via Ports tab) when using GPS feature.

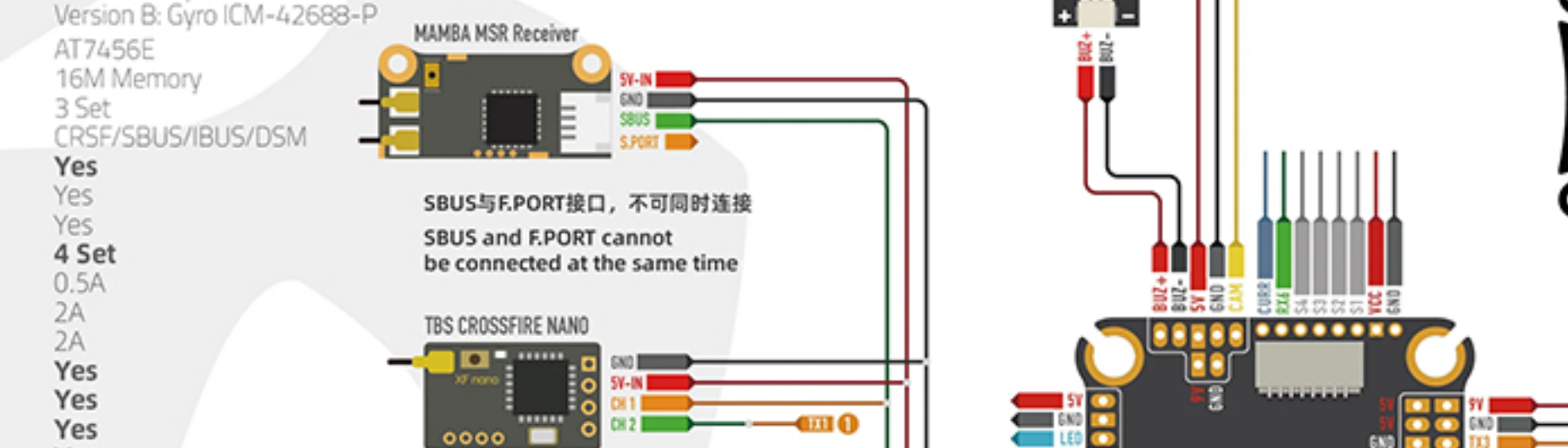
### BUZZER Wiring



### LED Wiring



### Camera Wiring



## MAMBA STACK MAMBA F405 MK2 V2

Stack Specifications:

- MCU: STM32F405
- Frequency: 168MHz
- GYRO: Version A: Gyro MPU6000; Version B: Gyro ICM-42688-B
- OSD: AT75UC
- Blackbox: 16M Memory
- UARTs: 3 Set
- Receiver: CRSF/SBUS/IBUS/DSM
- I2C: Yes
- Buzzer Pad: Yes
- CURSE Pad: Yes
- ESC Signal: 4 Set
- BEC 3.3V: 0.3A
- BEC 5V: 2A
- BEC 9V: 2A
- BL LED: Yes
- AIR UNIT Port: Yes
- BEC Protection: Yes
- Receiver Protection: Yes
- TVS Protection: Yes
- Input: 6S Lipo
- Soft Ware: Betaflight
- Mounting: 30.5x30.5mm, Ø 3
- Size: 45.0x4.10x6.8mm
- Weight: 14g

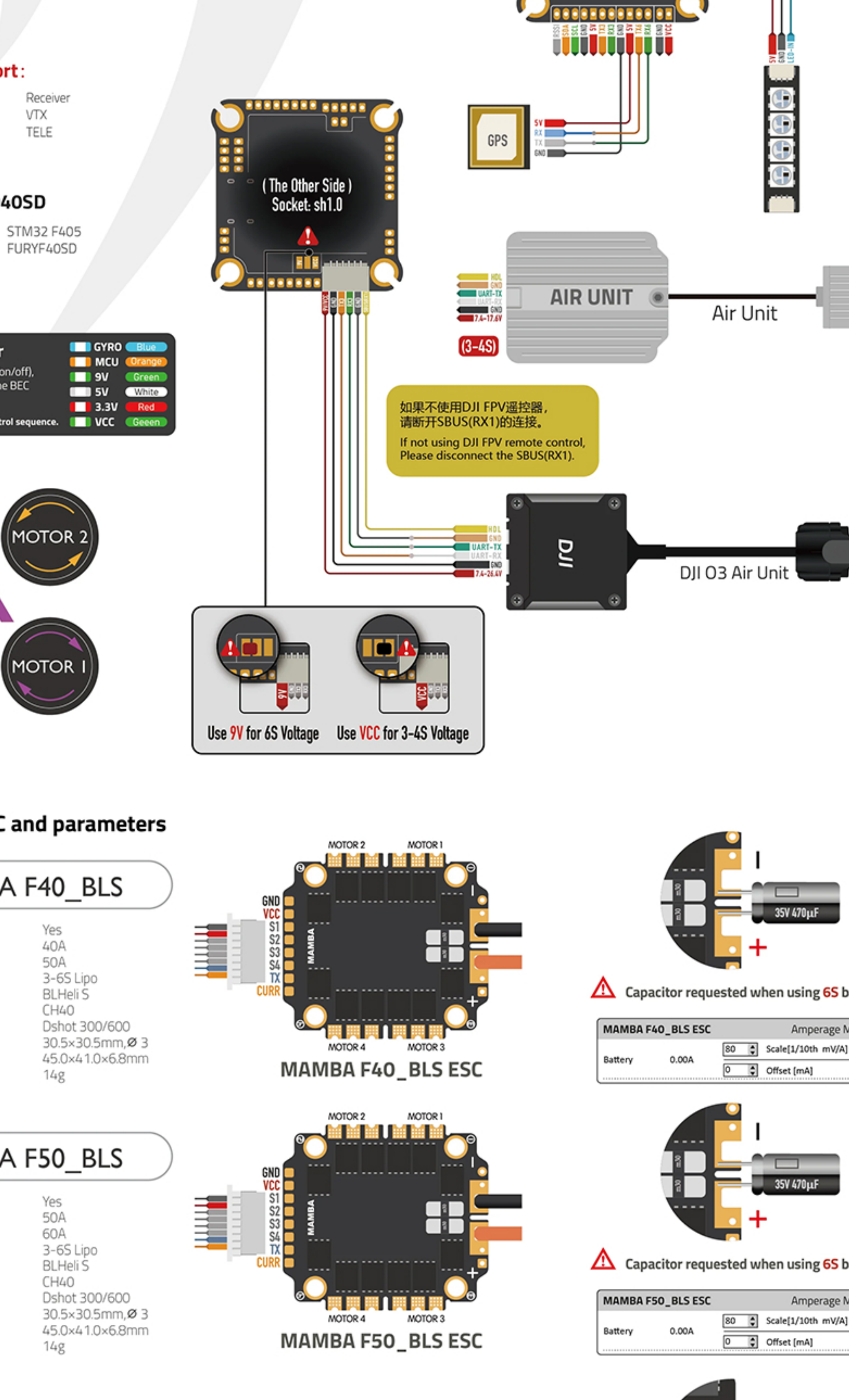
The Default Port:

- UART 1: VTX
- UART 3: TELE

Target: FURYD40SD

Main firmware: STM32 F405  
Config file: FURYF40SD

Power indicator: GYRO, MCU, 5V, 3.3V, VCC



Use 9V for 4S Voltage Use VCC for 3-4S Voltage

如果不用DJI FPV遥控器, 请断开SBus(RX1)的连接。 If not using DJI FPV remote control, please disconnect the SBus(RX1).

Betaflight是开源软件, 自行刷写固件将可能导致产品工作不稳定。为了你的安全, 地面站设置必须拆除螺旋桨。 Since Betaflight is open source software, and self-flashing the firmware will likely result in an unstable working product. For your safety, the propeller must be removed for betafightt setup.