

SPAN-F7-BT-HD

Manual V1.0

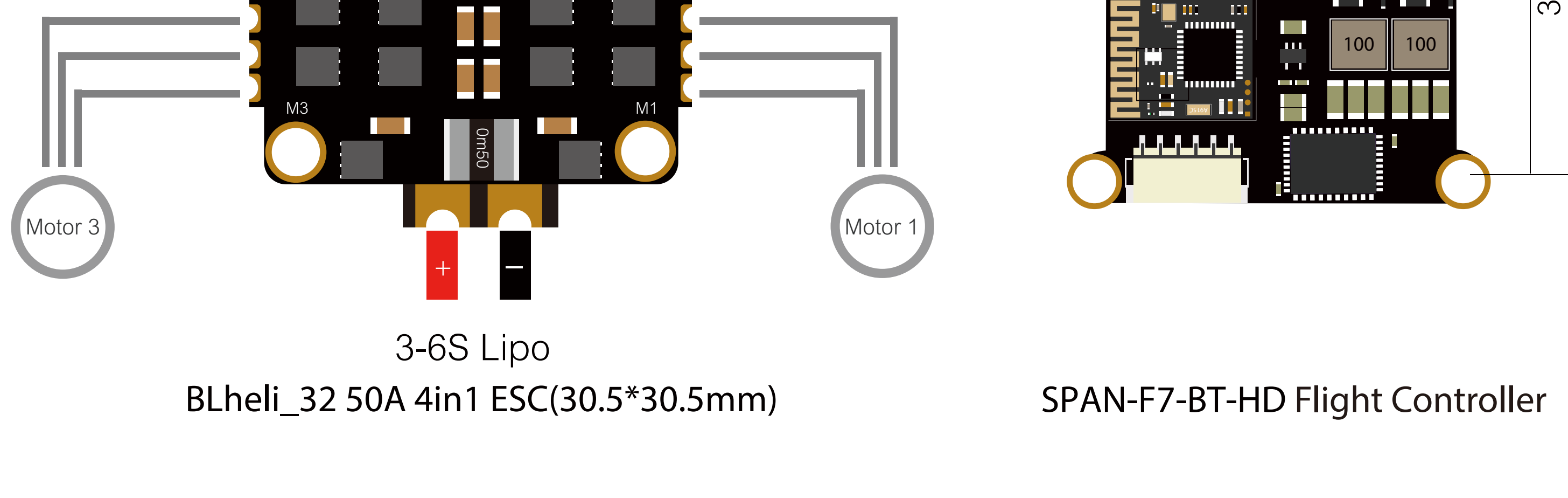


SPECS:

F722 DUAL ICM20689 Flight Controller:
 MCU: STM32F722RET6
 IMU: 2x ICM20689(SPI)
 DJI FPV Air Unit Supported.
 Build-In: Bluetooth wireless adapter (SpeedyBee APP)
 BlackBox: 32Mb onboard Flash
 OSD: BetaFlight OSD w/ AT7456E chip
 Baro: BMP280
 BEC Output: 5V@3A
 Integrated LC Filter
 Firmware target: EXF722DUAL
 Size: 36x36mm board, $\varnothing$ 4mm with Grommets $\varnothing$ 3mm
 Power input: 3-6S Lipo
 5x UART
 8x Motor outputs

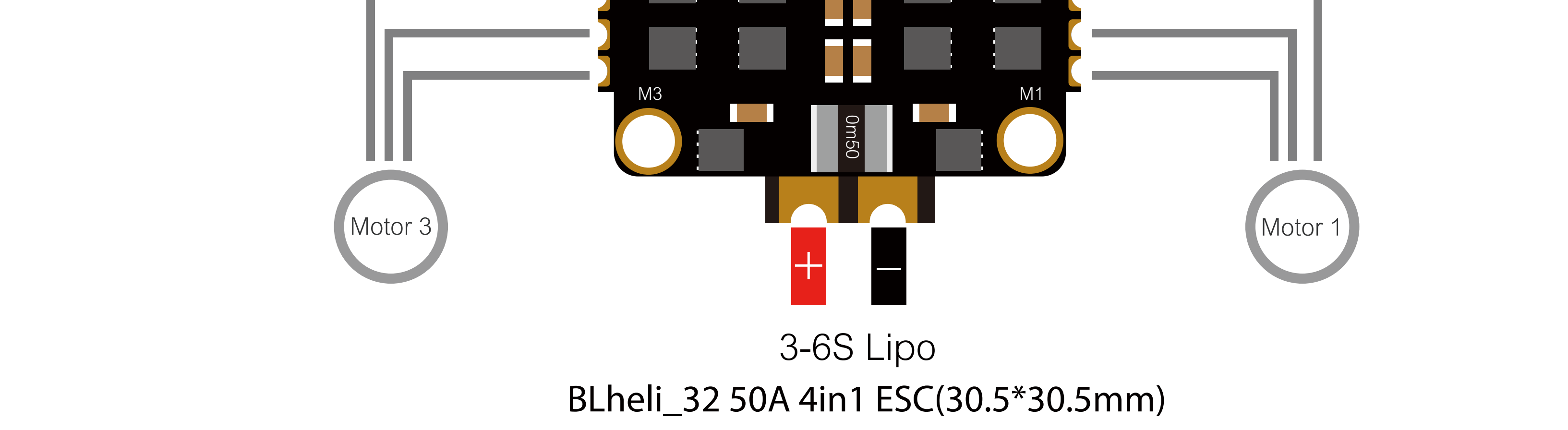
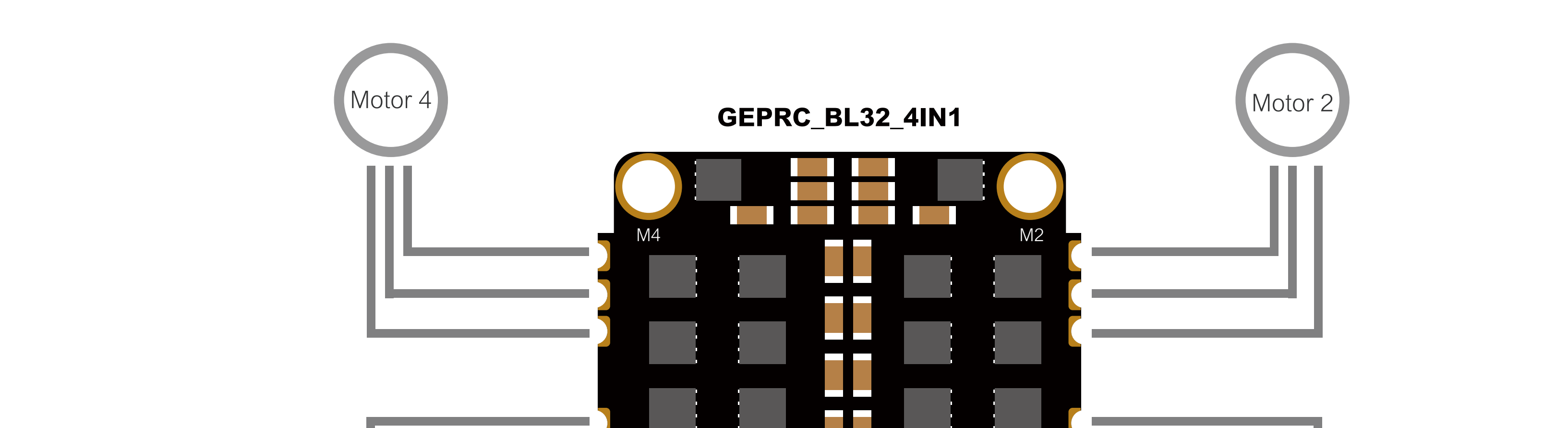
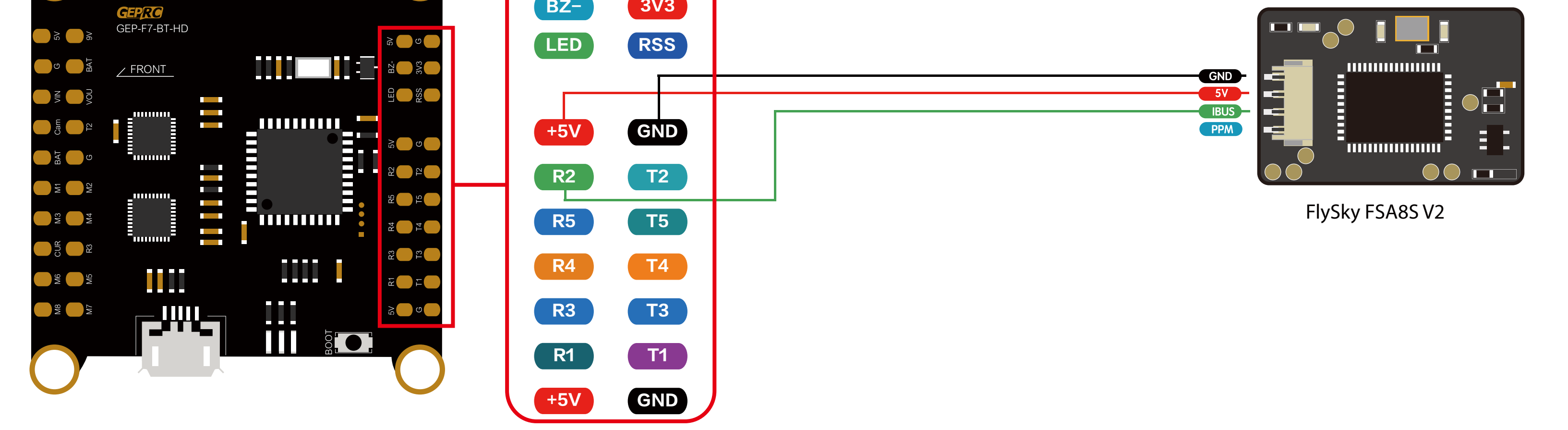
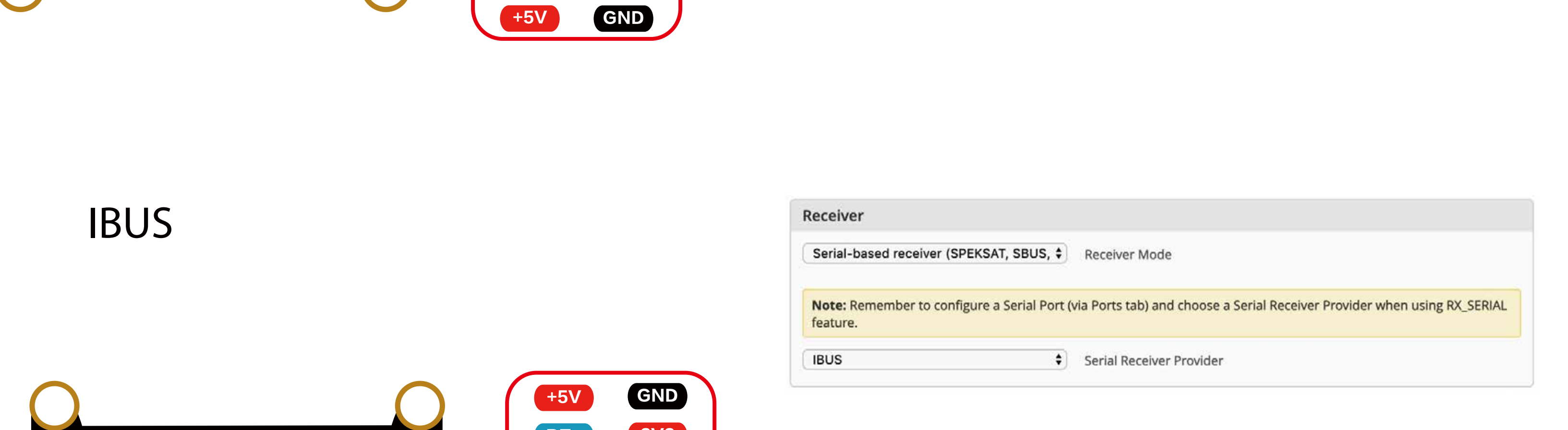
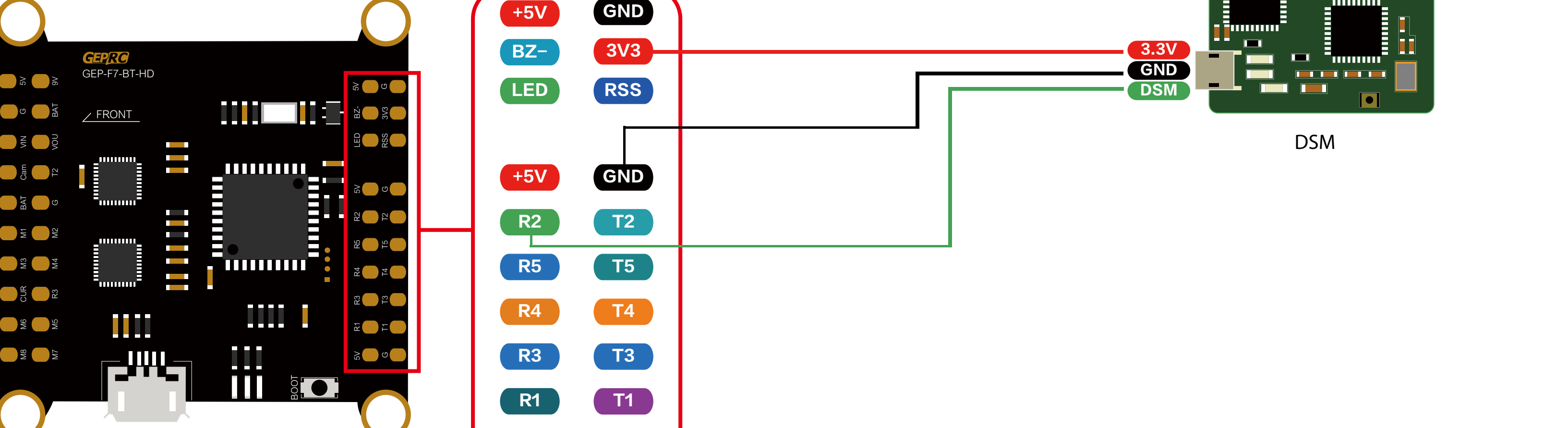
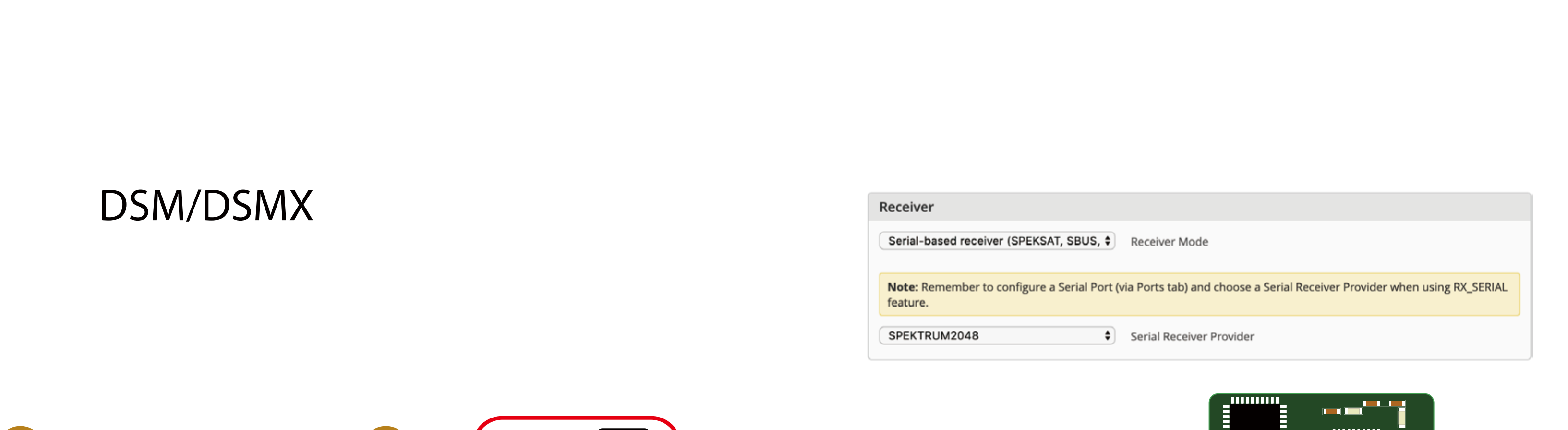
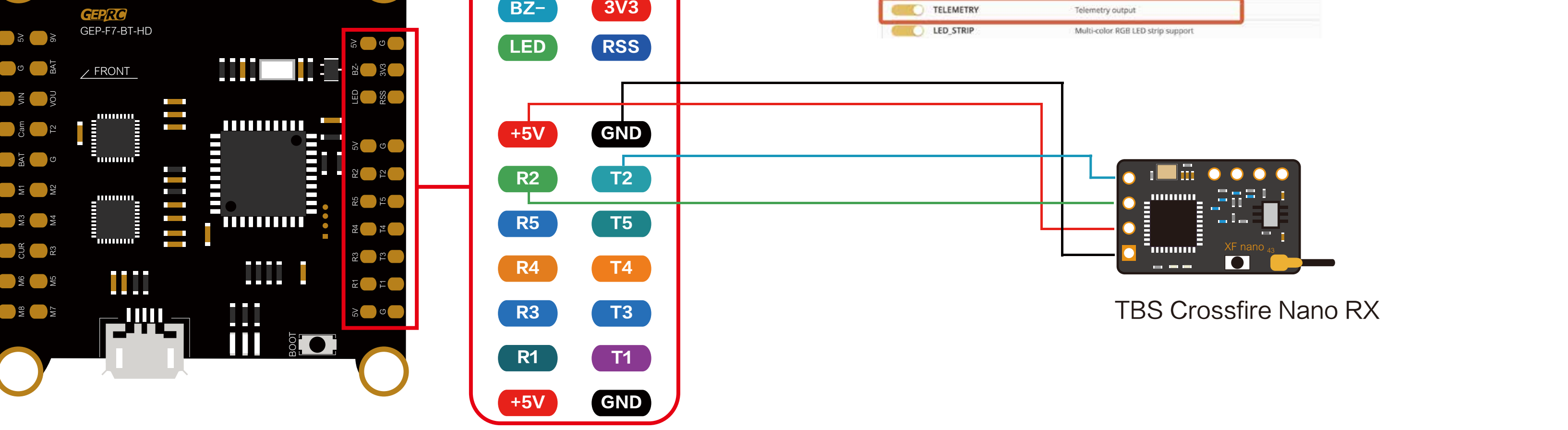
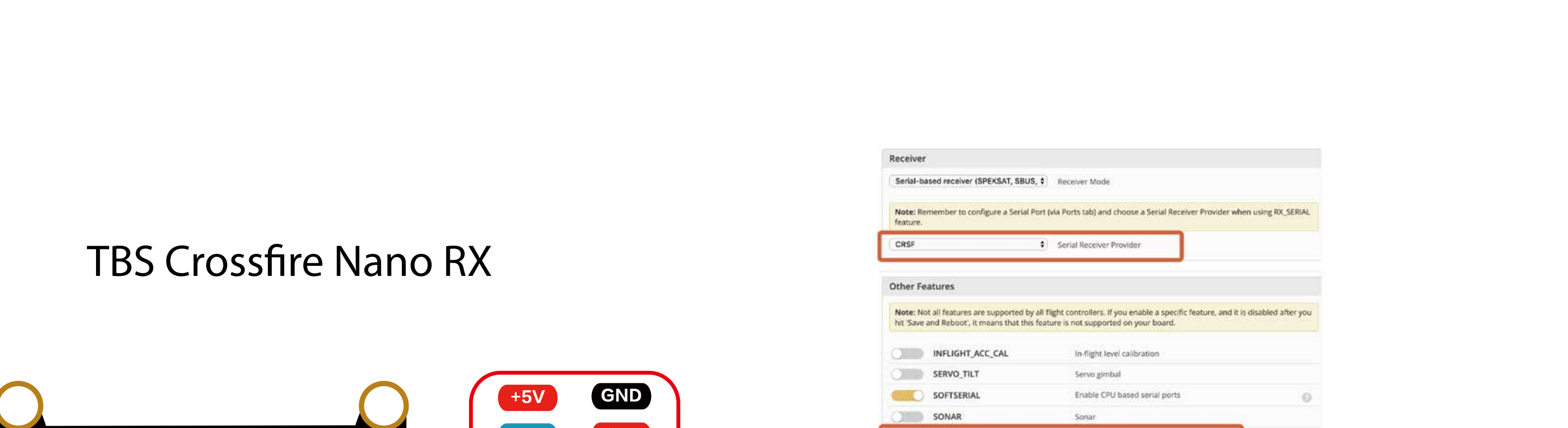
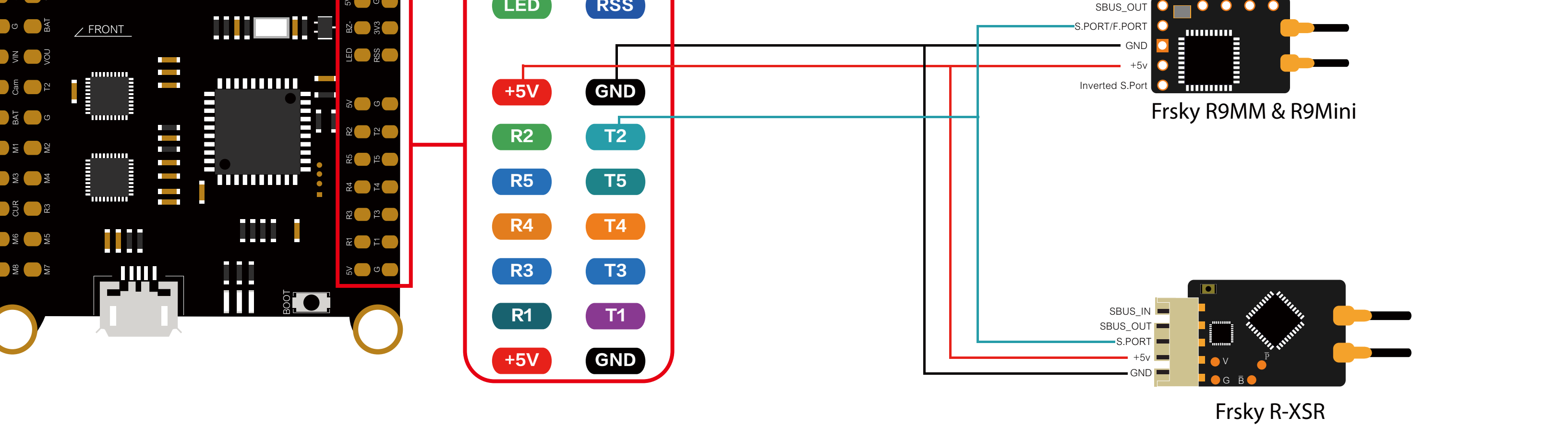
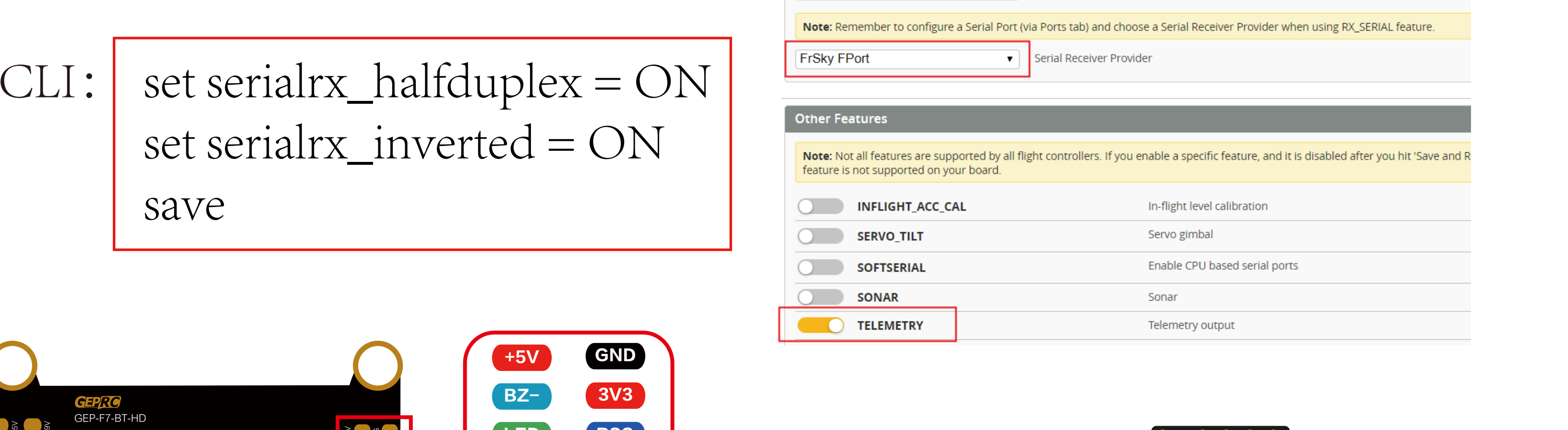
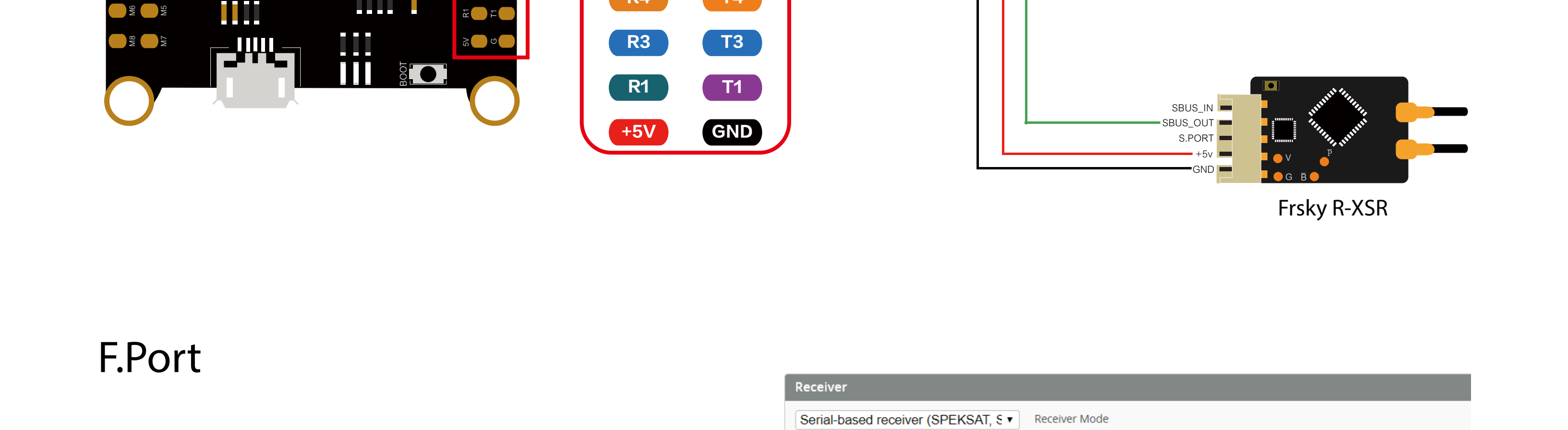
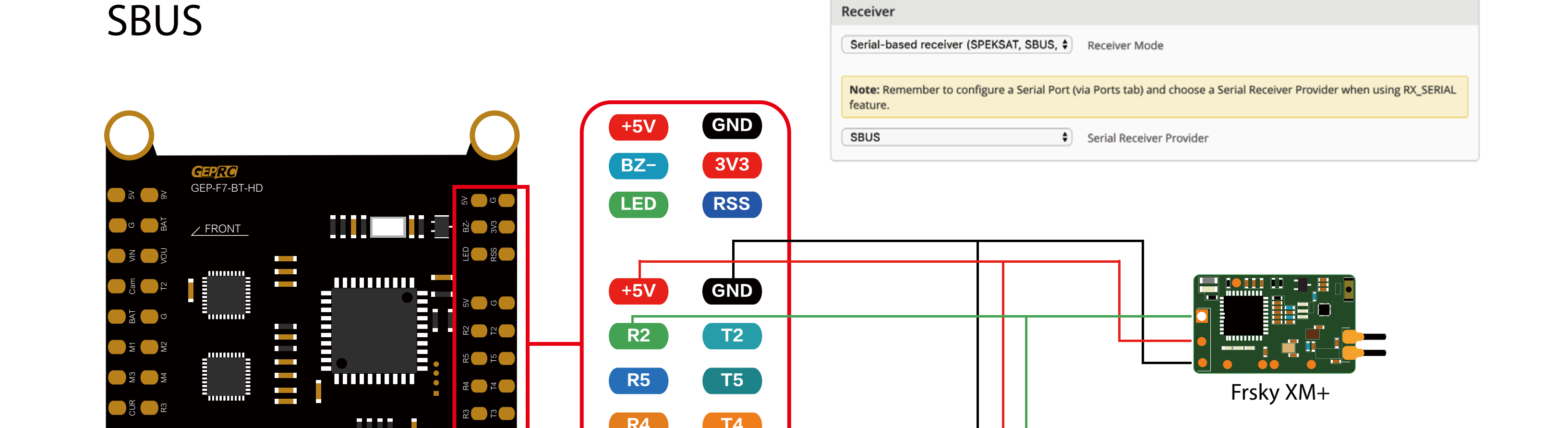
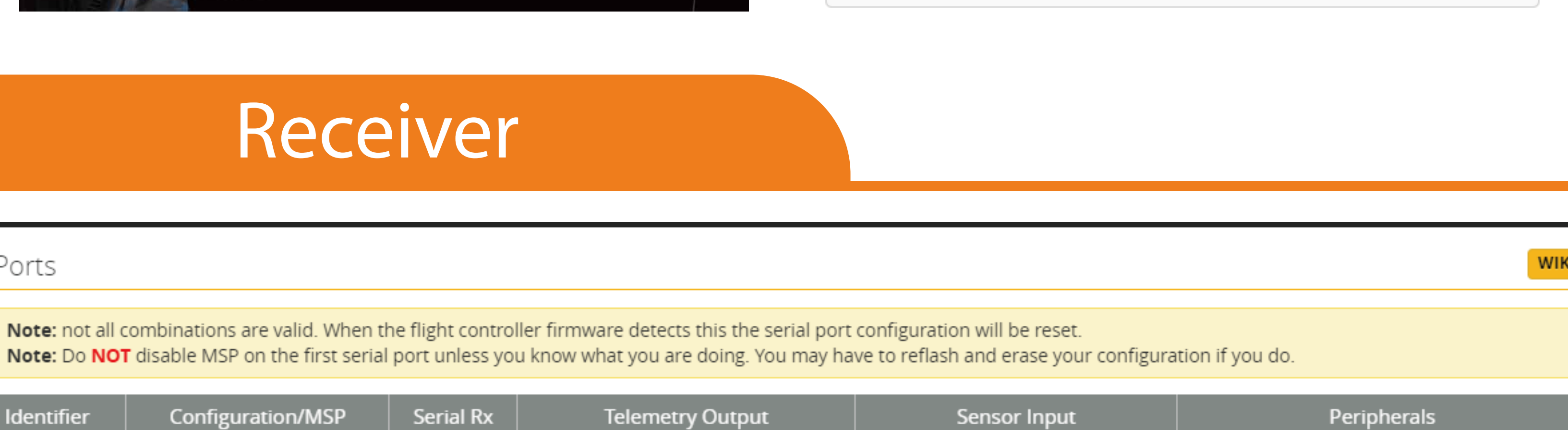
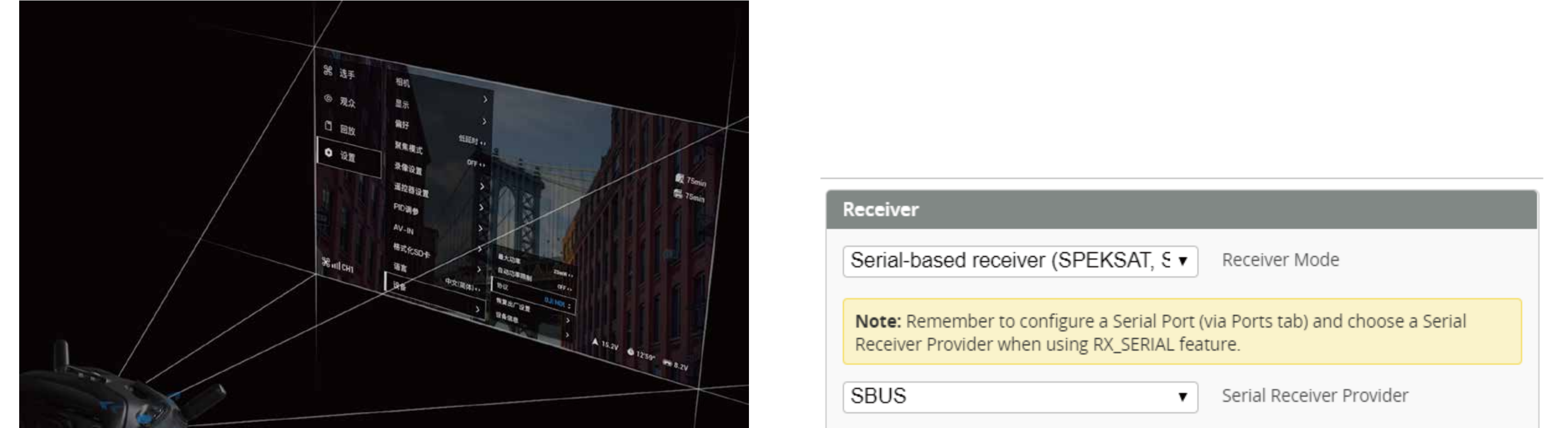
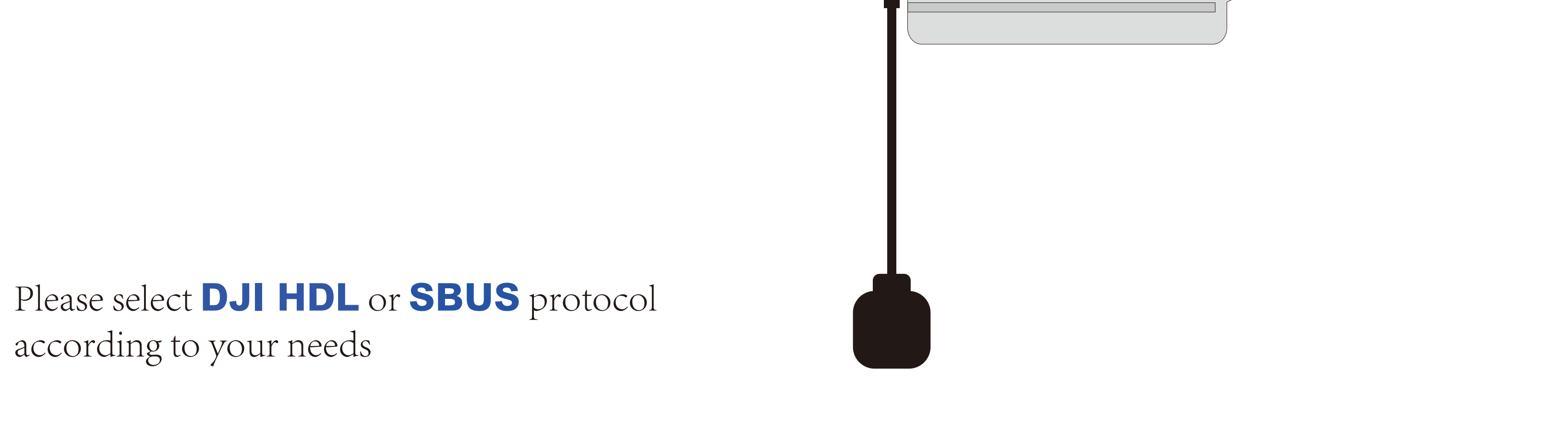
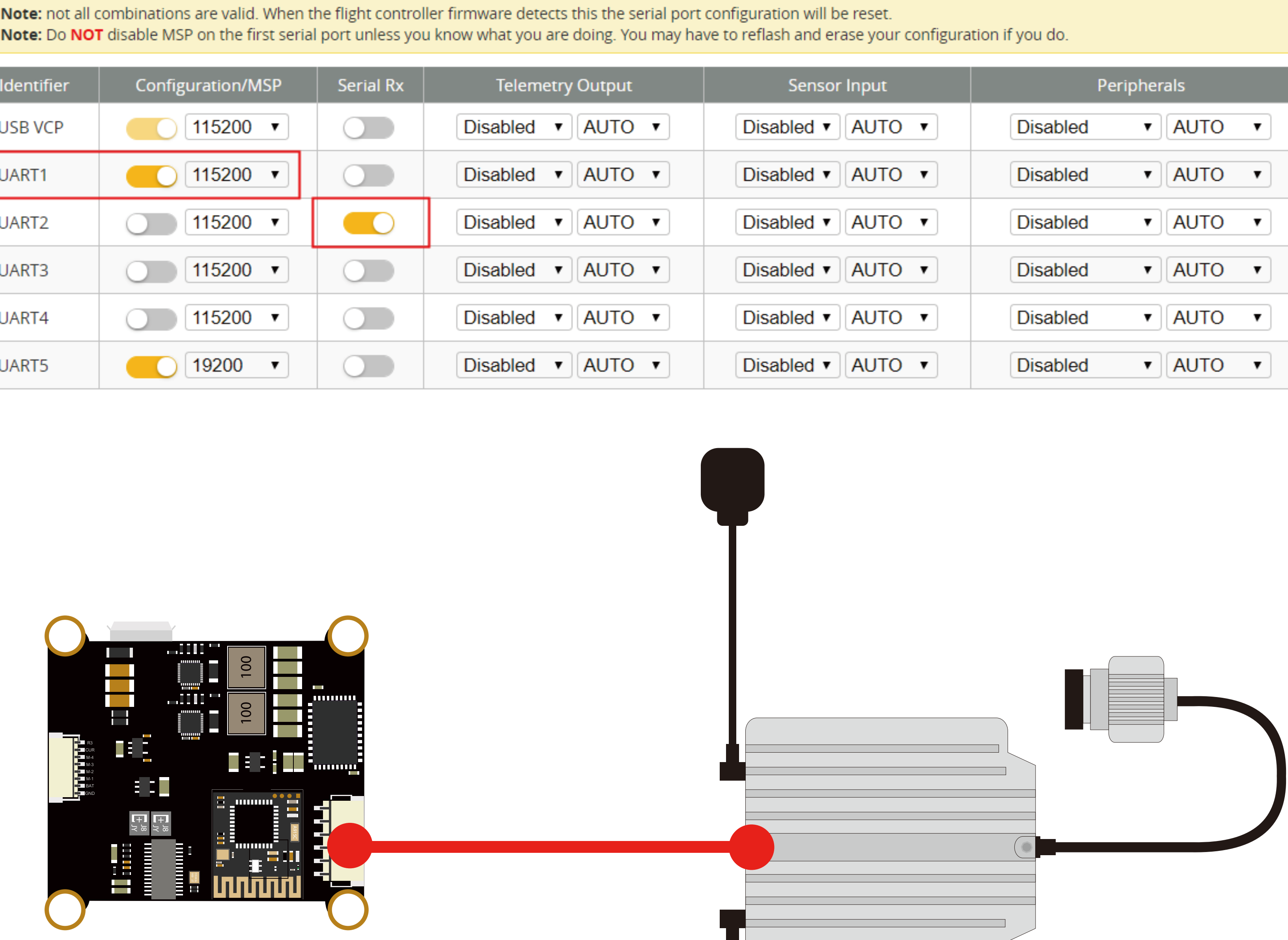
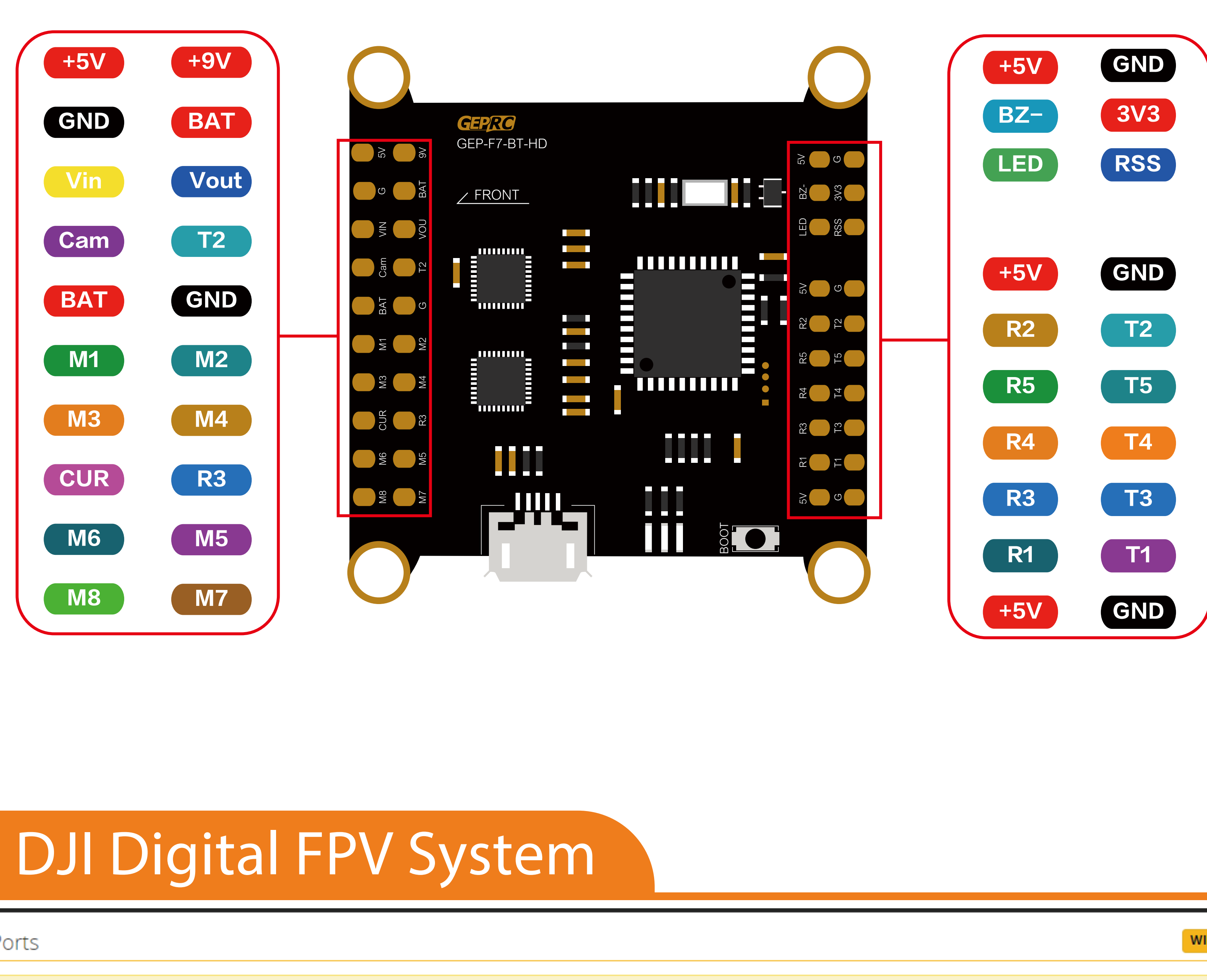
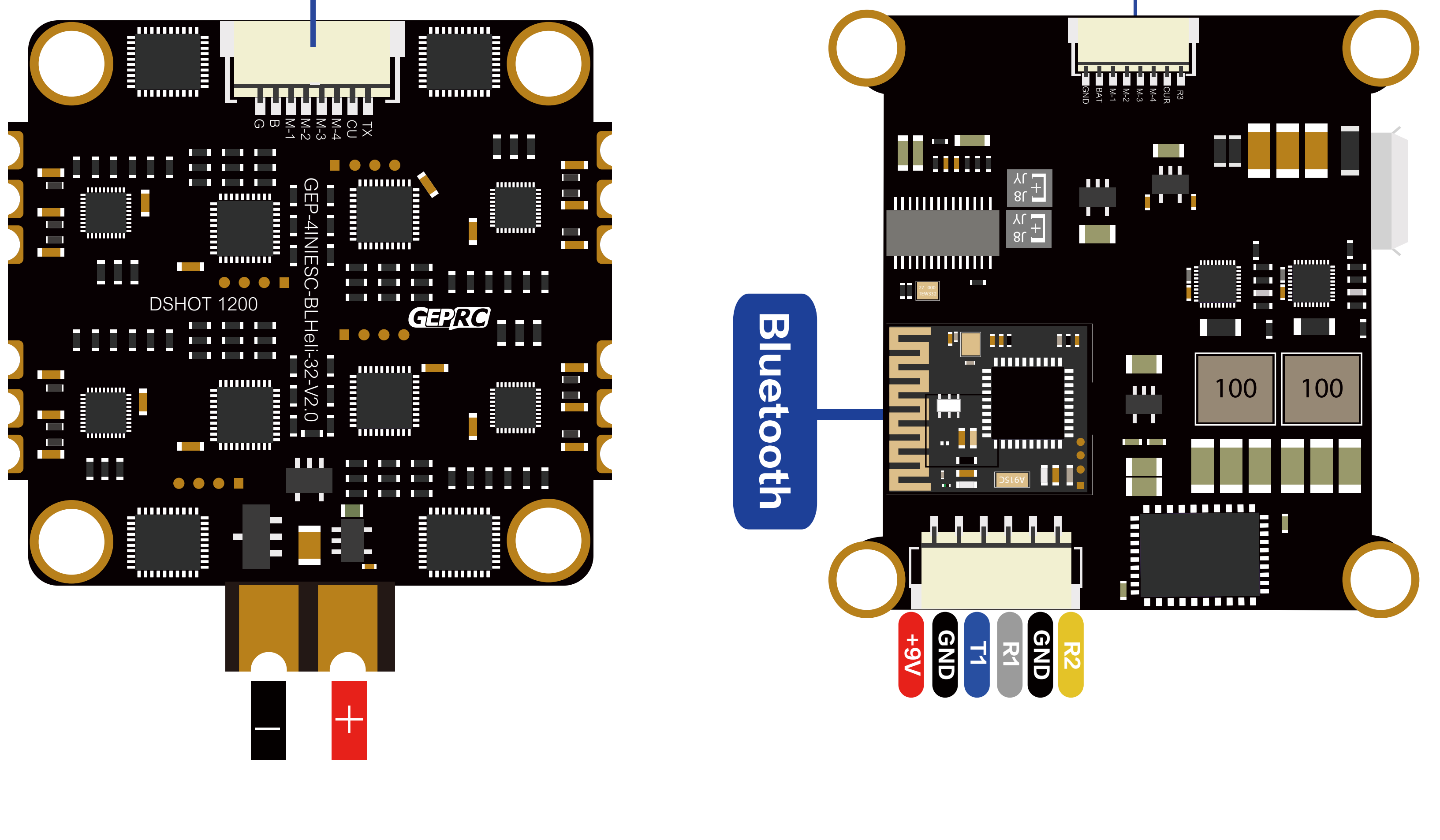
BL32 50A ESC 4in1:
 MCU: STM32F051K86(32bit 48mHz)
 Continuous Current: 50A
 Peak Current: 55A (5S)
 Current sensor: YES
 Telemetry: Supported
 Support DSHOT1200/DSHOT600, PWM, Multishot, OneShot
 Firmware Version: GEPRC-BL32-4in1
 Input Voltage: 3-6S Lipo

Instruction Diagram

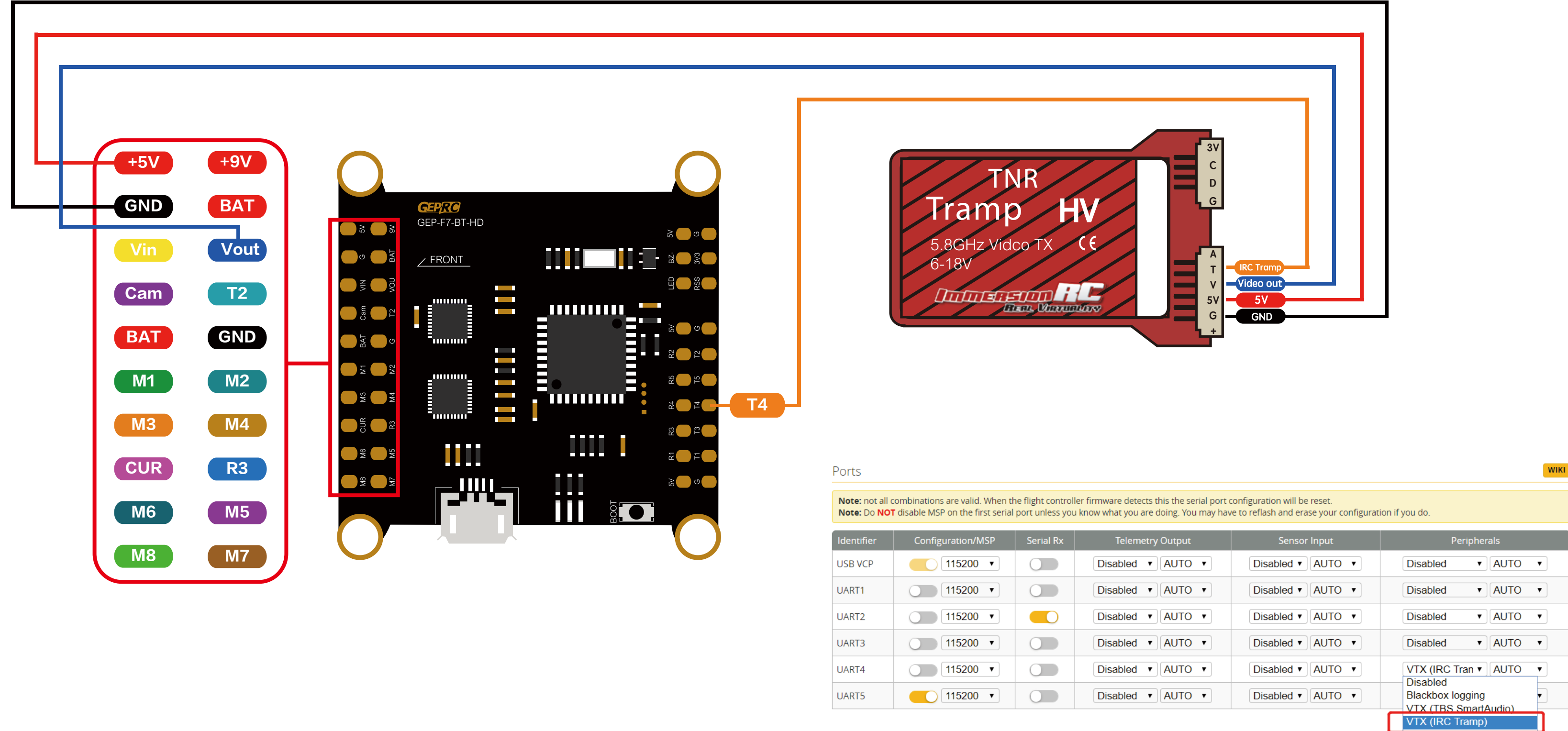
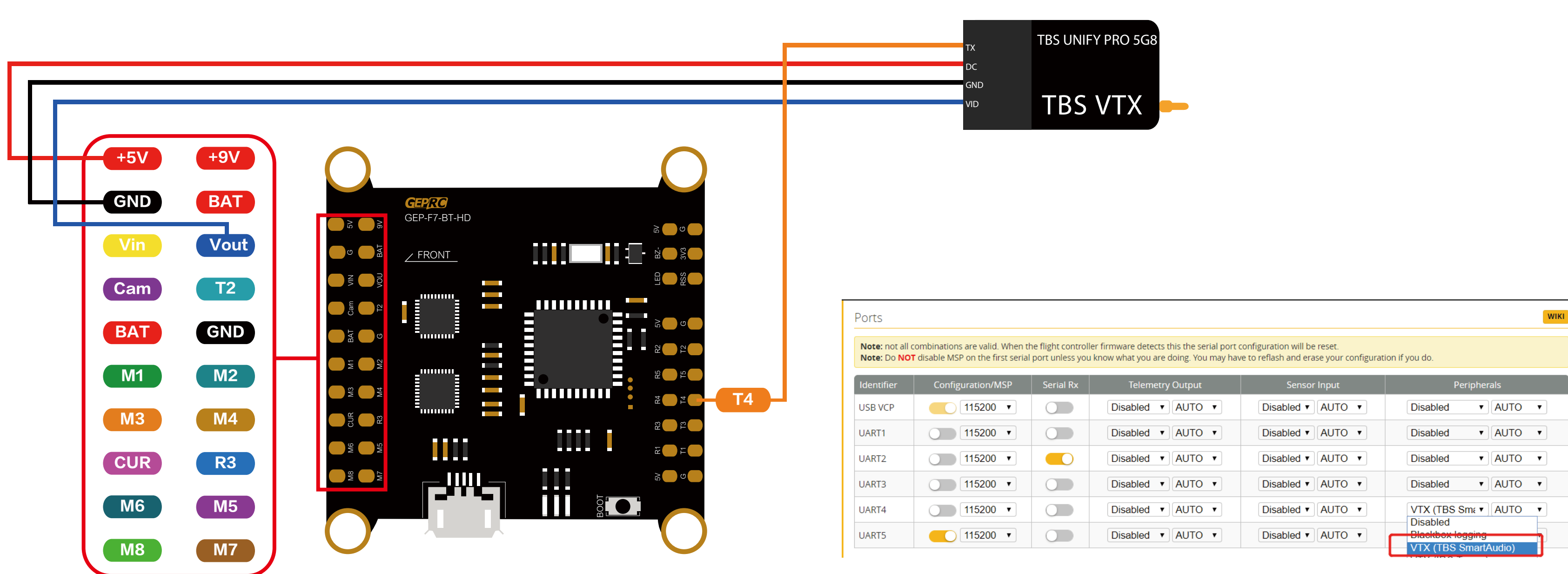


3-6S Lipo
BLHeli_32 50A 4in1 ESC(30.5*30.5mm)

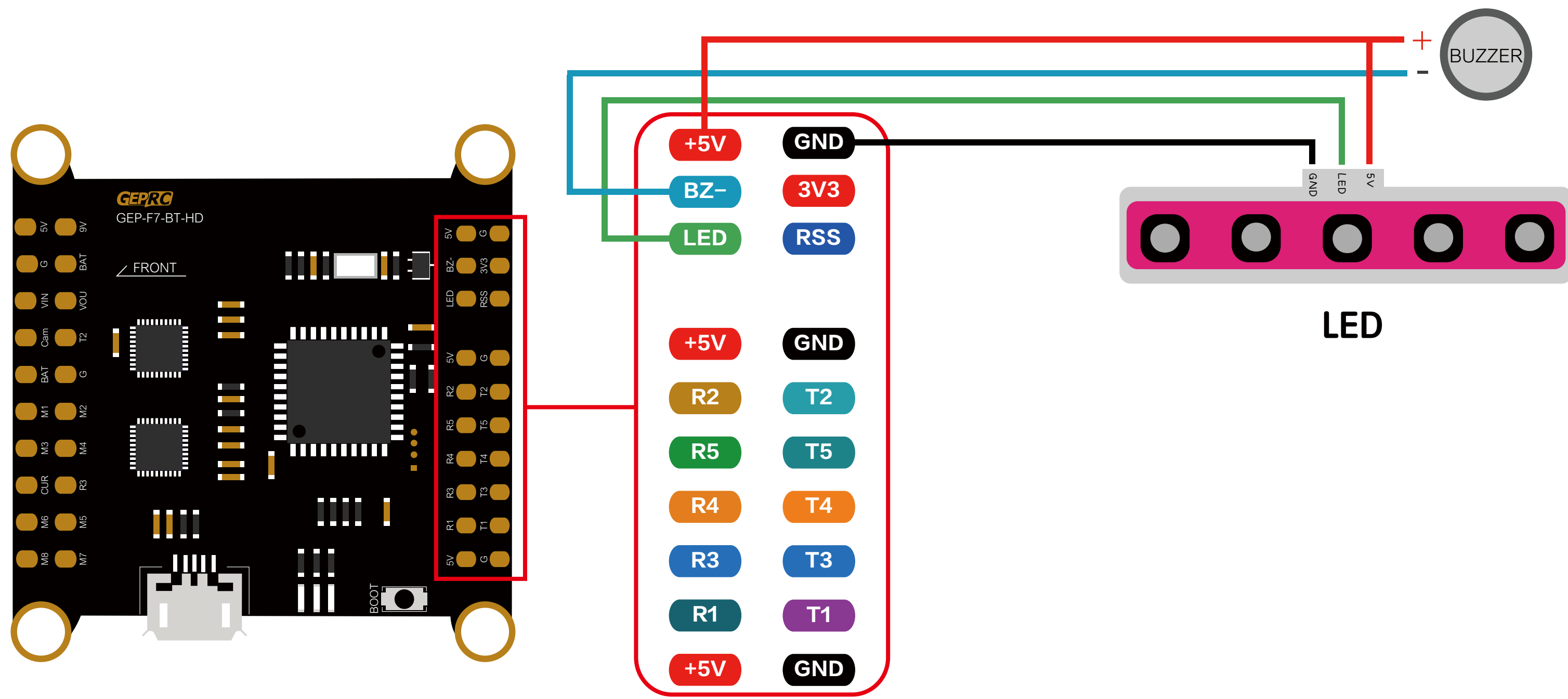
SPAN-F7-BT-HD Flight Controller



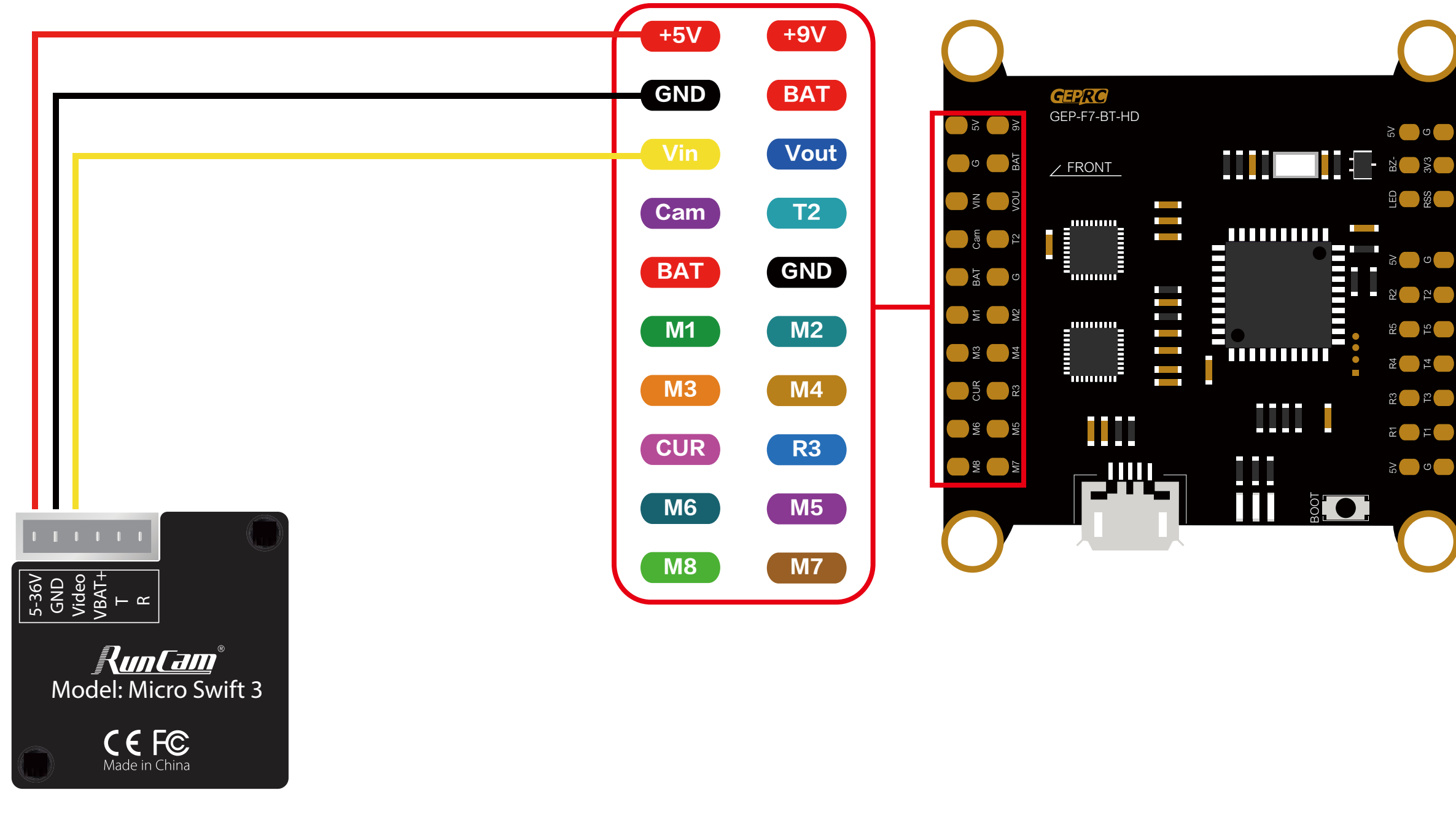
VTX



LED & Buzzer



Camera

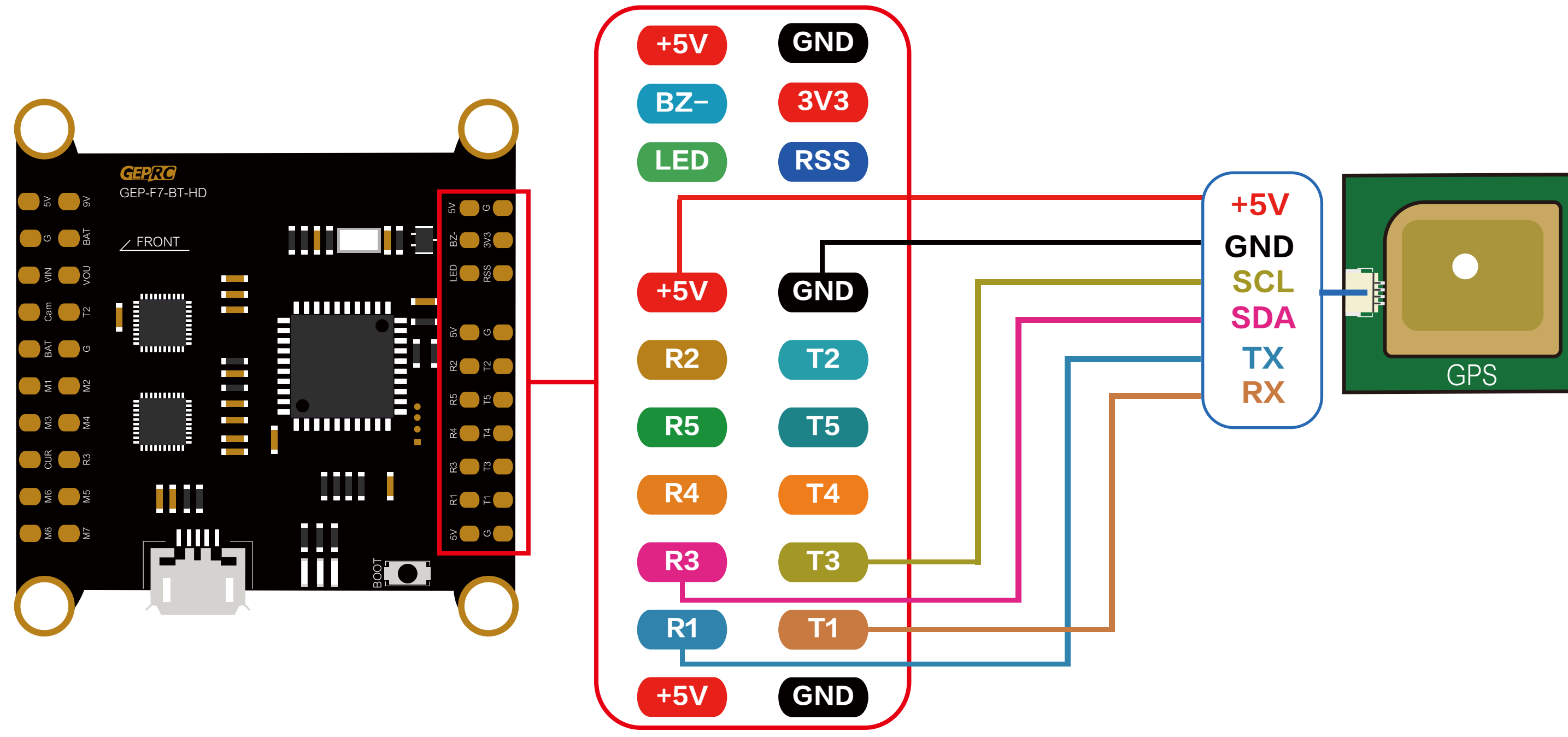


GPS & Compass

Ports					
Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.					
Note: Do NOT disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.					
Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART1	115200		Disabled / AUTO	GPS / AUTO	Disabled / AUTO
UART2	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO

Attention! Because the compass function is not complete on BF firmware, please use it carefully. If you want to have the complete compass function, please use INAV firmware.

INAV firmware: IFLIGHT F7 TWING

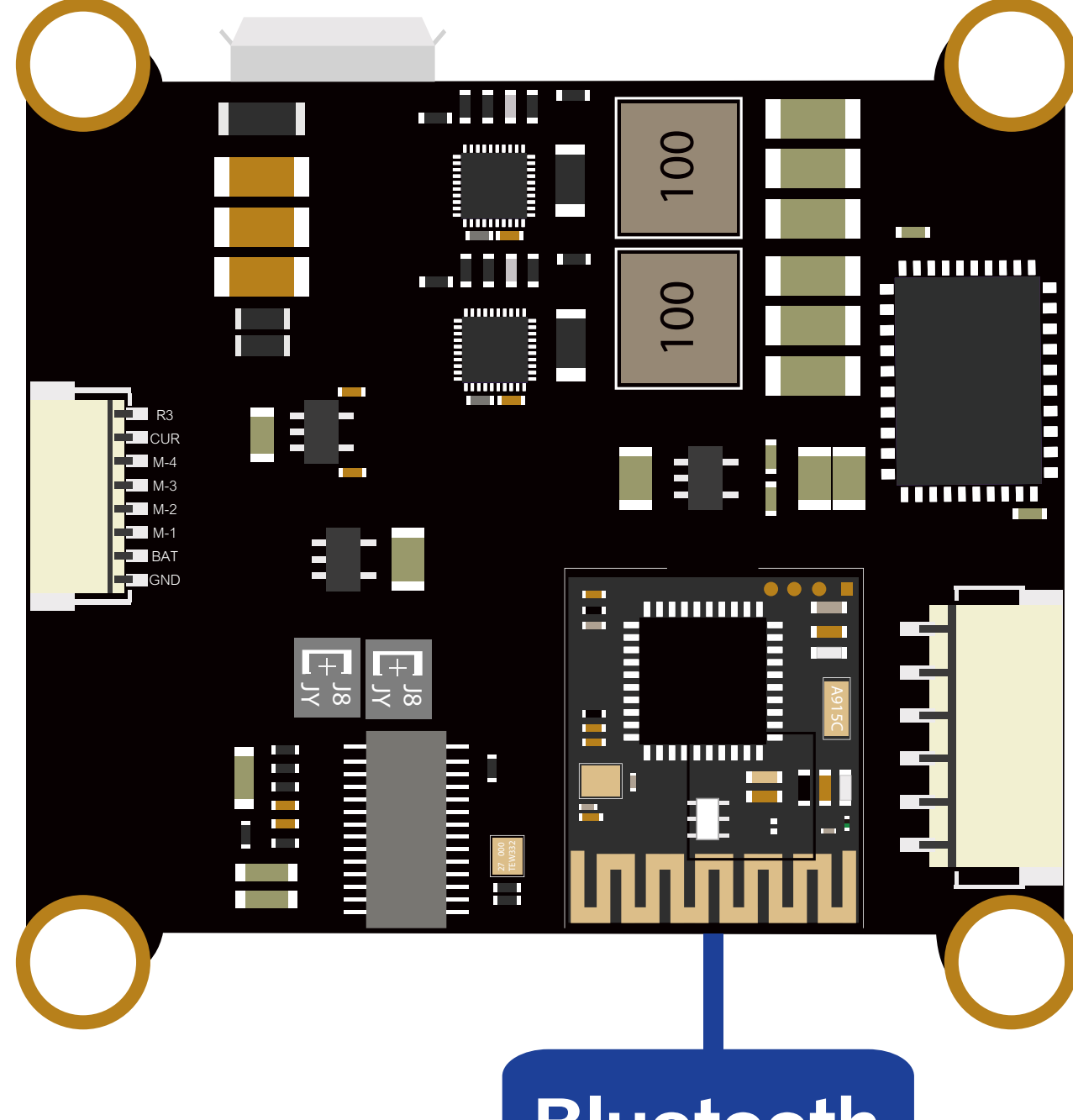


Bluetooth

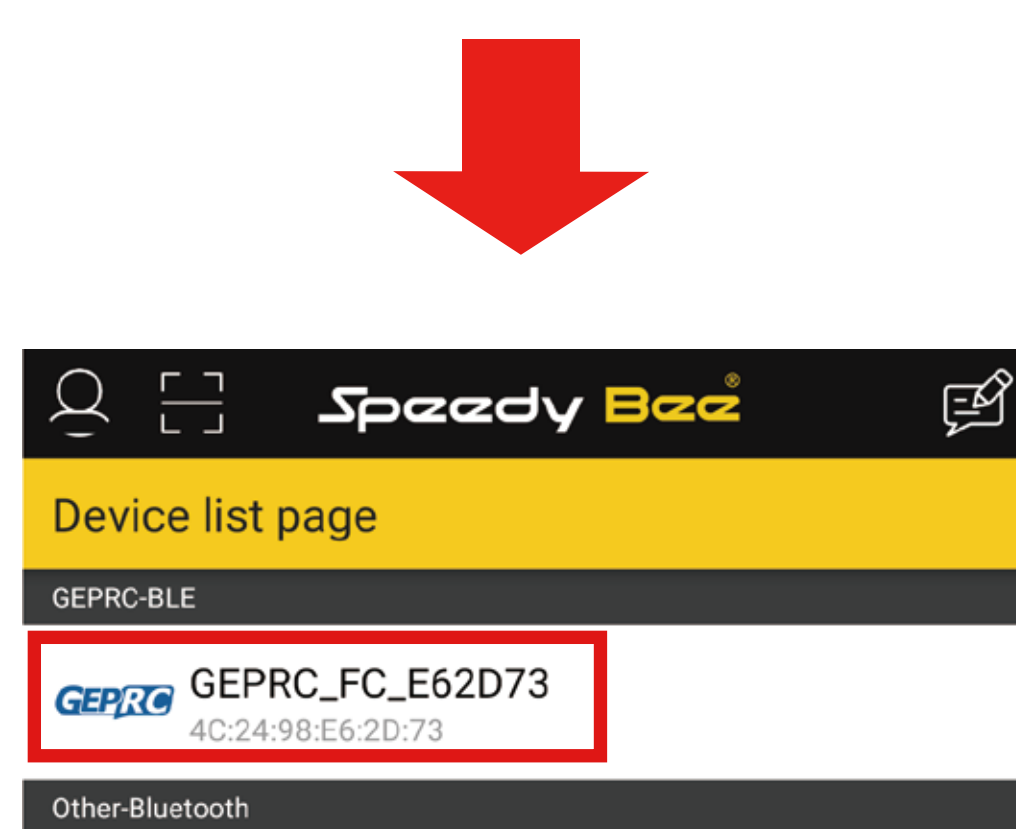
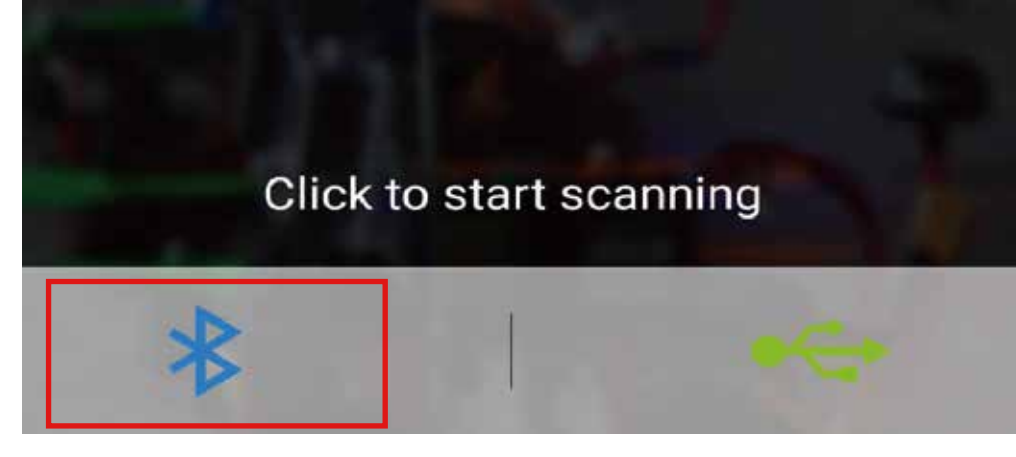
How to connect with APP?

1. Turn on the configuration /MSP feature of **UART5** and set the baud rate to **19200**.
2. Enter the cli command: `set pinio_config = 129,1,1,1`
`set pinio_box = 0,255,255,255`
`resource PINIO 1 C13`
`save`
3. Power the Flight controller (3s~6s battery or c USB).
4. Open the Speedy Bee APP.
5. Click on the screen to search for Bluetooth.
6. Select the **GEPRC** icon to connect.

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UART1	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART2	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART3	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART4	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART5	19200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO



Bluetooth



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