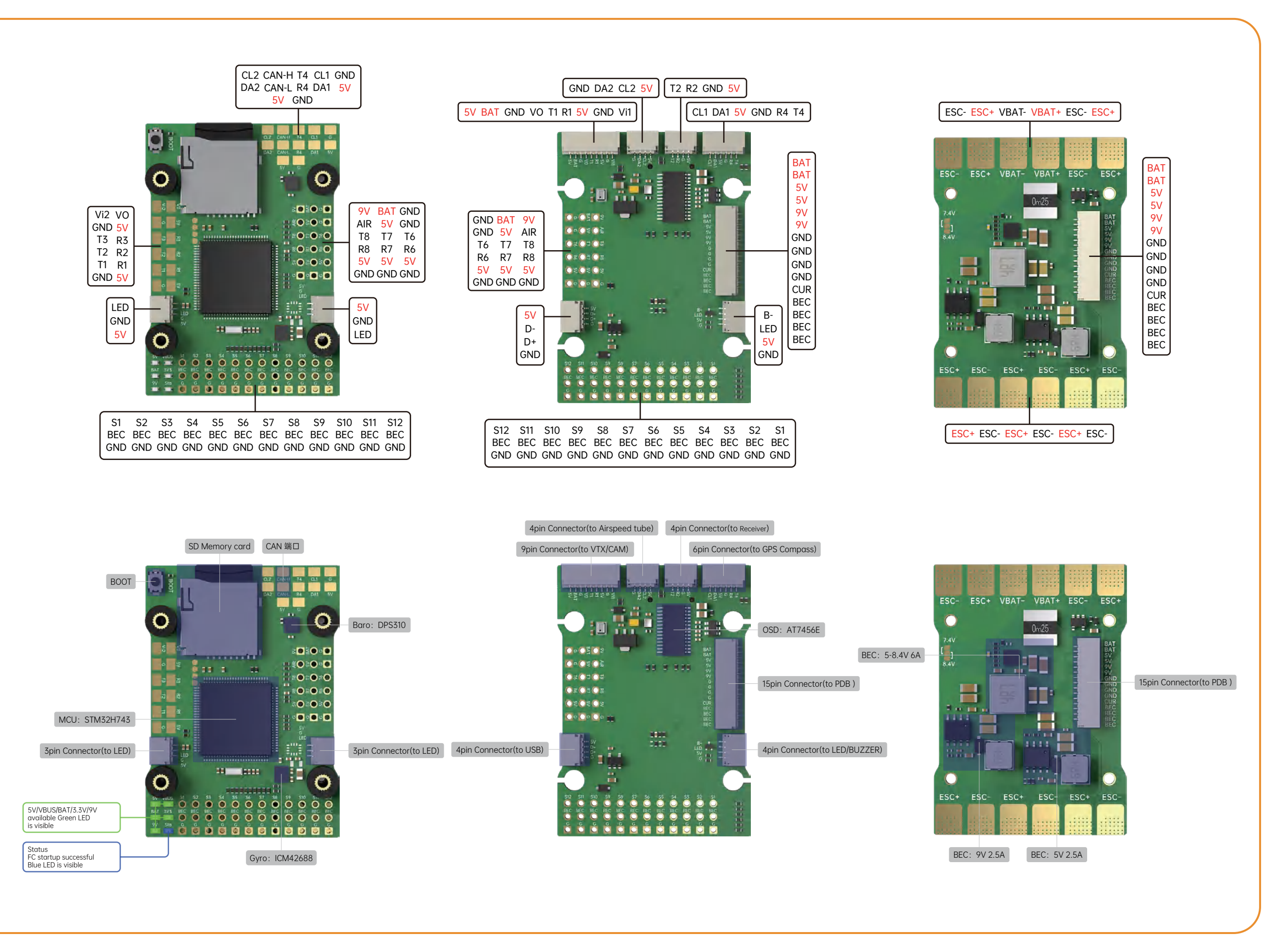
iFlight BLITZ Wing H743 Instructions

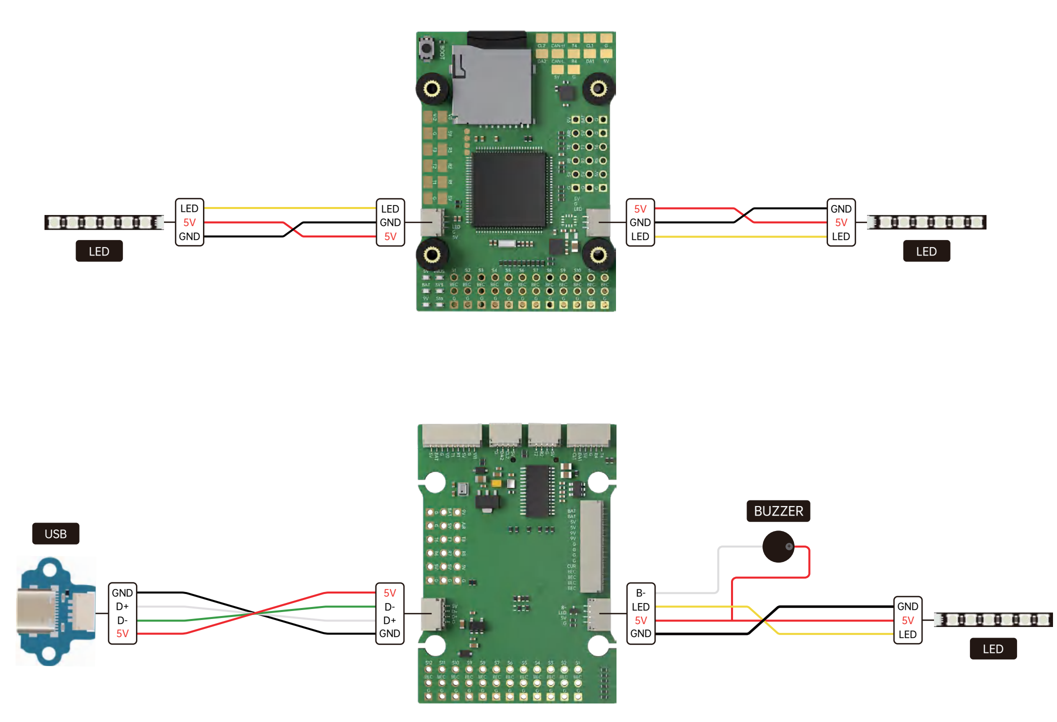
Parameters:

MCU: STM32H743
Gyro: ICM42688P
Baro: DPS310
OSD: AT7456E
①BEC: Output 5V 2.5A continuous output current, 3A peak current 15 seconds (for FC)
②BEC: Output 9V 2.5A continuous output current, 3A peak current 15 seconds (for VTX)
③BEC: Output 5V6A 7.4V6A 8.4V6A continuous output current (for Servo)
(Adjust via pad jumpers)
BlackBox: MicroSD card
Uart: 8*UART(UART1, UART2, UART3, UART4, UART6, UART7, UART8)
2×I2C, 1*CAN
12*PWM outputs
UART1 for VTX HD/Analog
UART2 for Receiver
UART4 for GPS
UART2, UART6, UART7 for free
8×Dshot/PWM outputs
2×I2C
1xSH1.0 5pin connector for HD VTX/Analog VTX&CAM (R1/T1/G/9V/VO)
1xSH1.0 10pin connector for ESC (R6/CUR/M4/M3/M2/M1/BAT/BAT/G/G)
1xSH1.0 6pin connector for Any Receiver or DJI (3V3/R2/5V /G/R2/T2)
1xSH1.0 4pin connector GPS (T4/R4/G/5V)
1xSH1.0 4pin connector LED&Beeper (5V/G/VI/NC)
6×0402 LEDs for FC STATUS (5V) / (BAT) / (9V) / (5V) / (3.3V) / (Start)
Smartaudio&IRCTramp VTX protocol supported
WS2812ledStrip: Yes
Beeper: Yes
Switchable dual camera inputs
Switchable 5V/7.4V/8.4V outputs
7-36V DC IN (2-8S)
Dimensions: 36.9*52mm
Mounting hole: 30.5*30.5mm/ϕ4
Weight: 35g

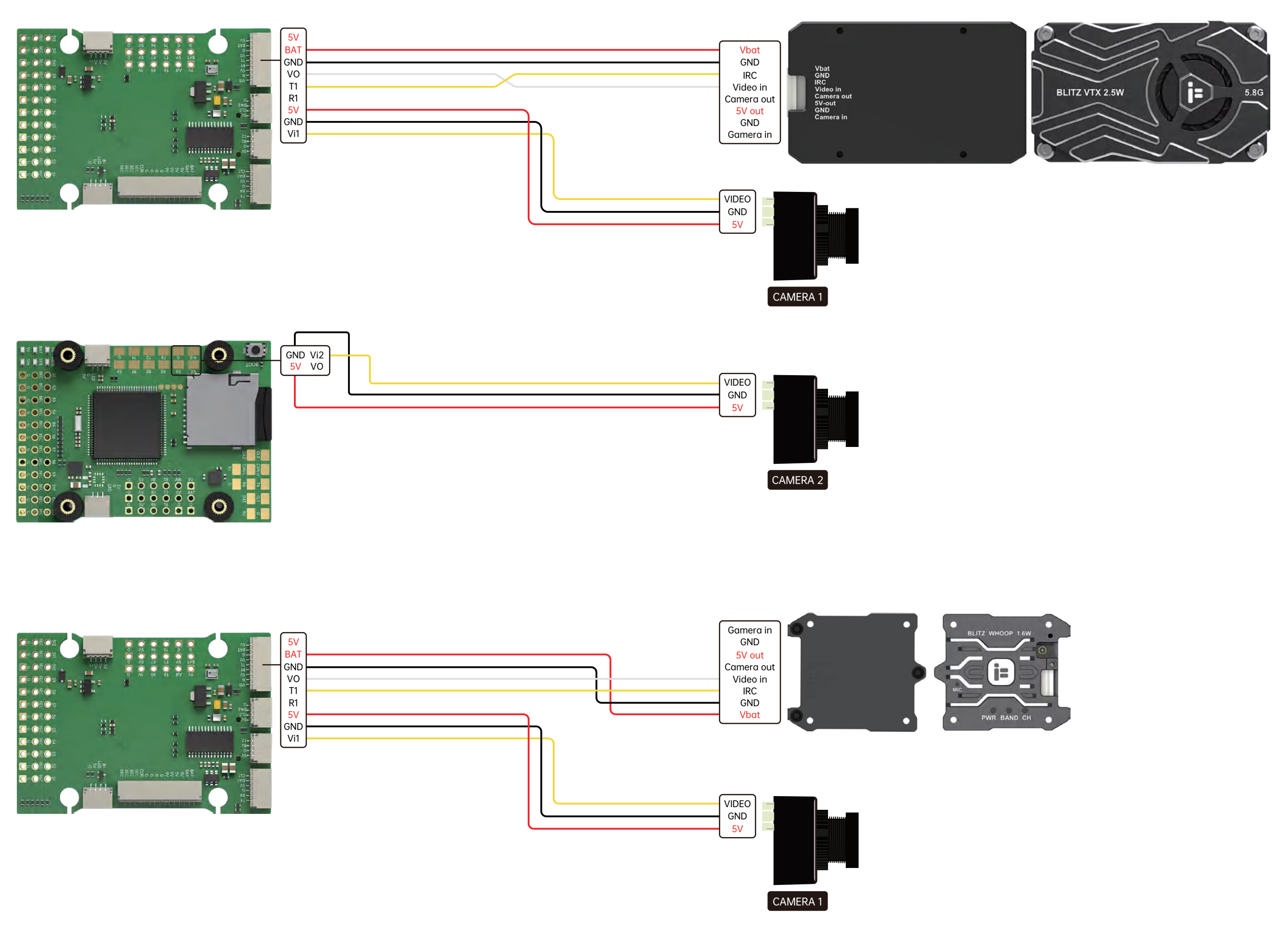
Firmware target:
INAV: IFLIGHT_BLITZ_Wing_H743
Ardupilot: BlitzWingH743

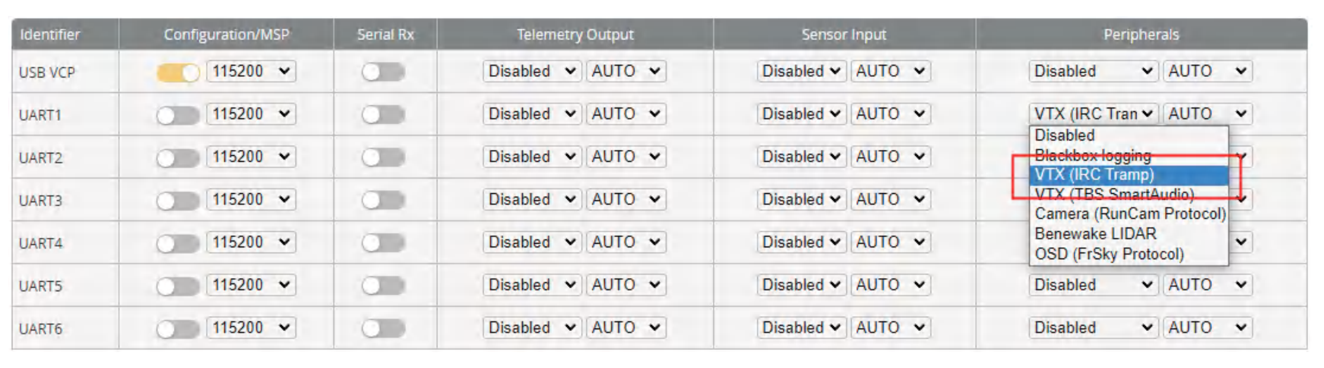


LED/USB/BUZZER

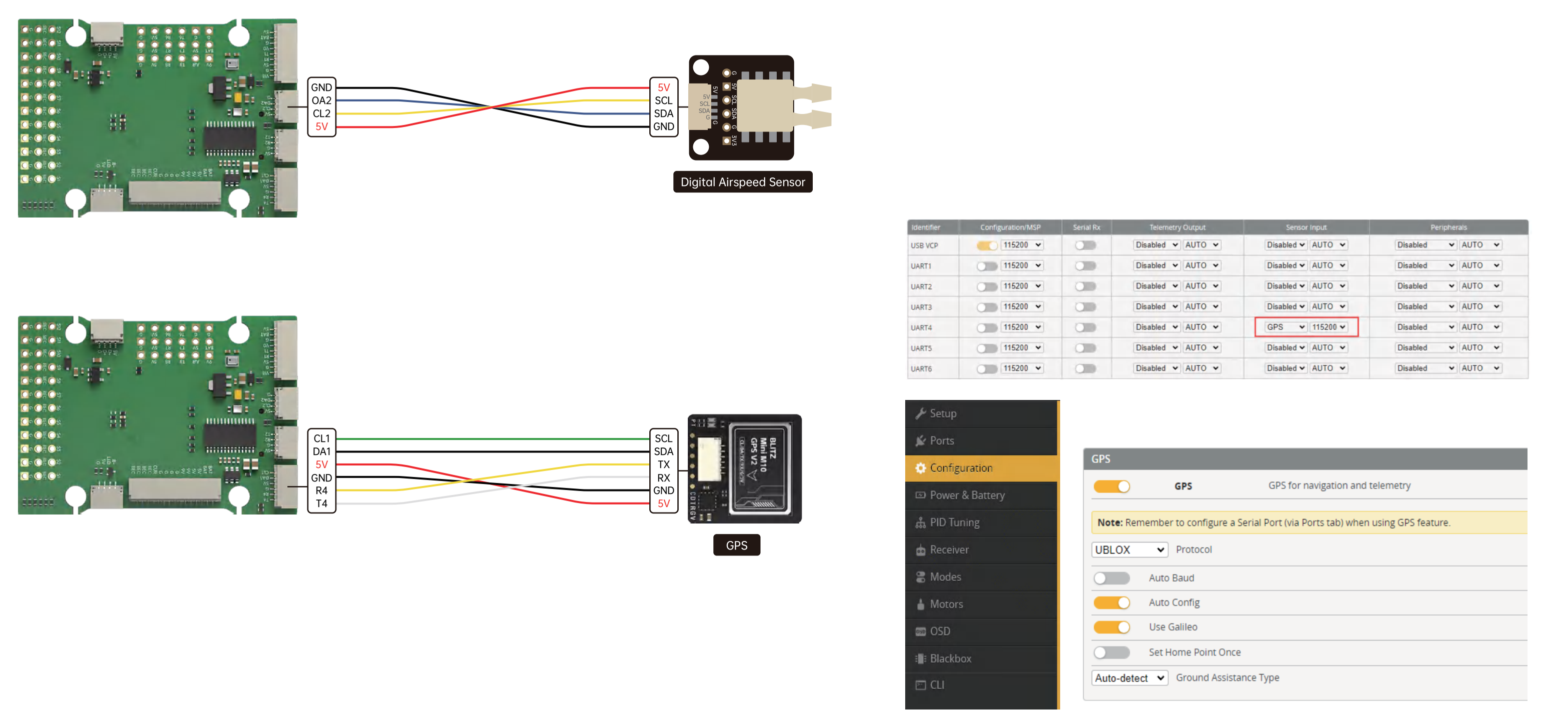


VTX/CAM

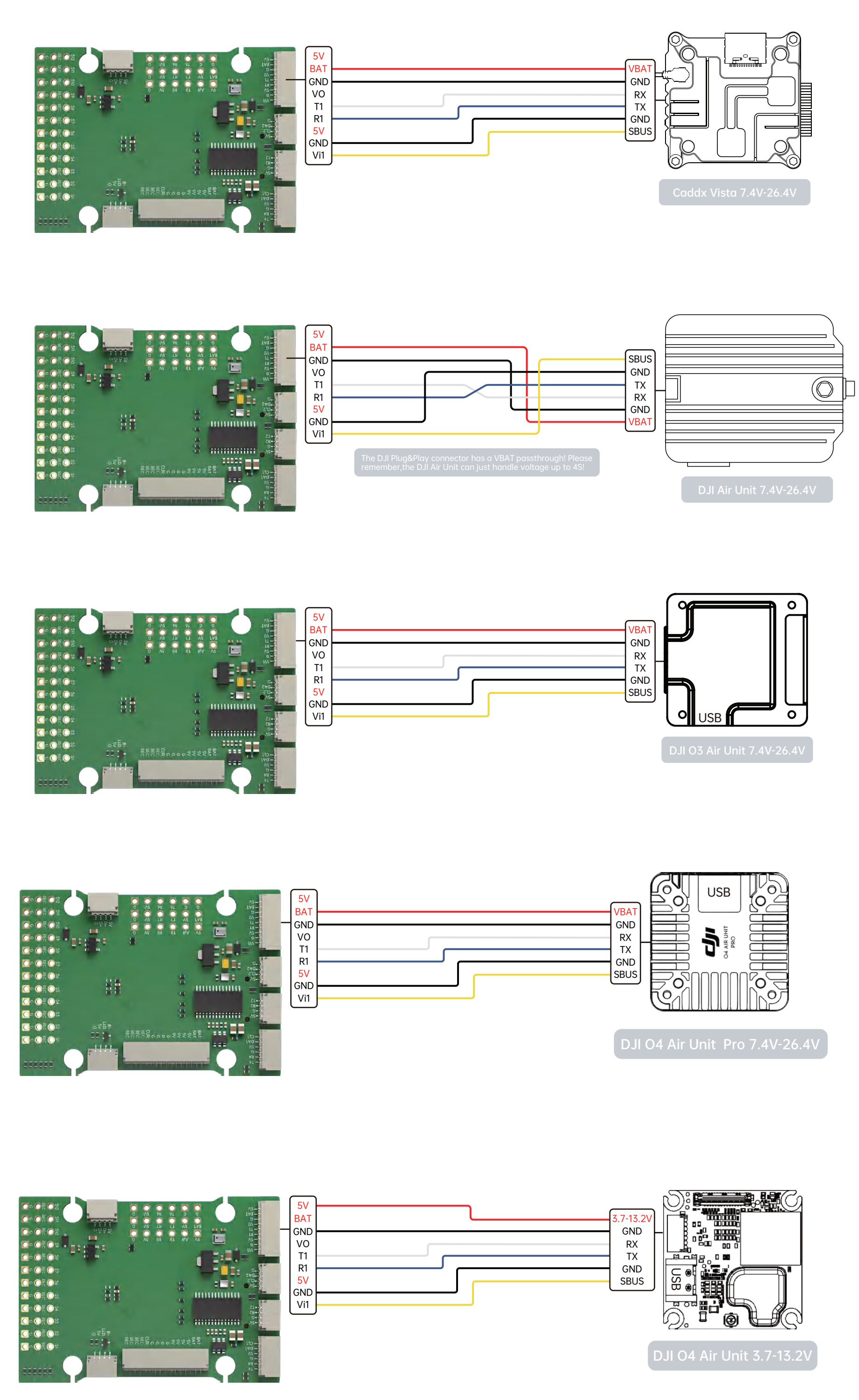


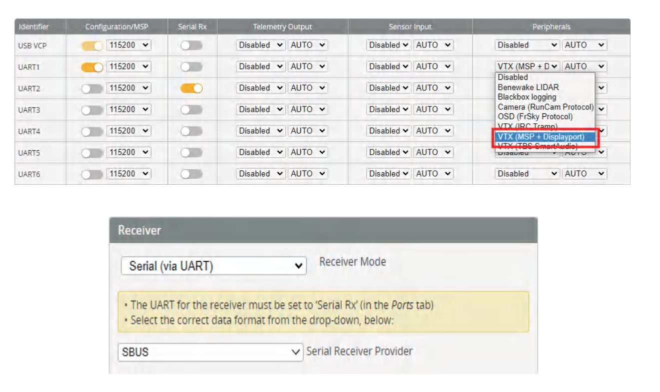


DIGITAL AIRSPEED SENSOR/GPS



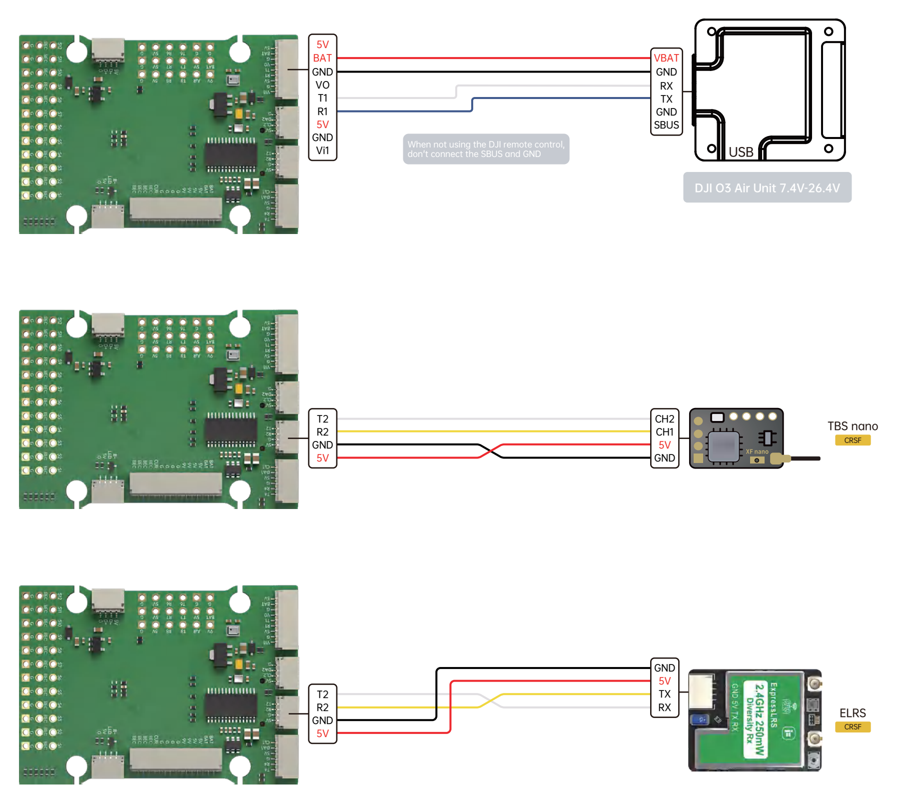
DJI Digital Transmitters

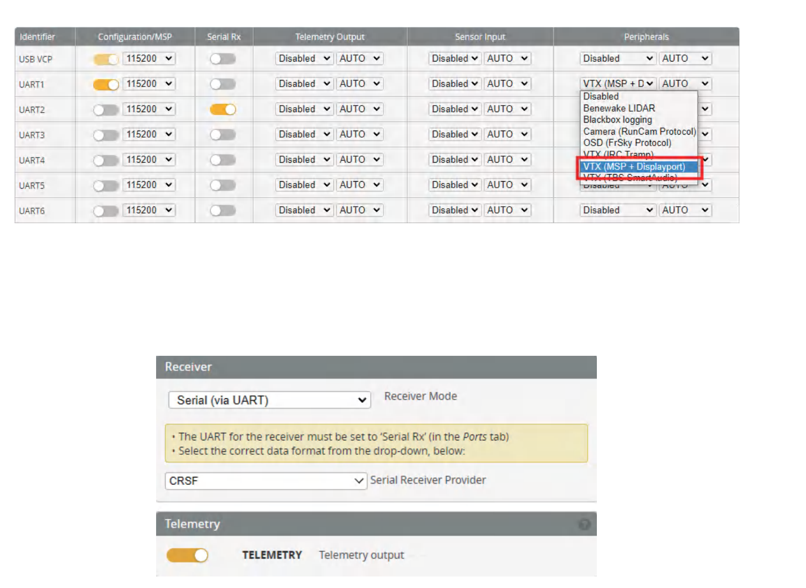




- To enable the air unit OSD under Betaflight 4.4 version, you need to select VTX (MSP+Displayport) in the peripheral port where the air unit signal is connected to the port interface.
- note: DJI FPV Remote Controller2 is for DJI O3 Air Unit
  DJI FPV Remote Controller is for DJI Air Unit and Vista
- Please check your protocols, otherwise your DJI Radio won't input signals!
  DJI Goggle protocol and Betaflight protocol has to match!
  For lower signallatency use the SBUS BAUD FAST protocol option on both ends.
- For Betaflight Copy Paste"set sbus baud fast=on"into your Beataflight Configurator CLI then hit enter.
  Use"save"and hit enter to save the changes.
  Default: sbus baud fast=off, Goggle protocol set to NORMAL

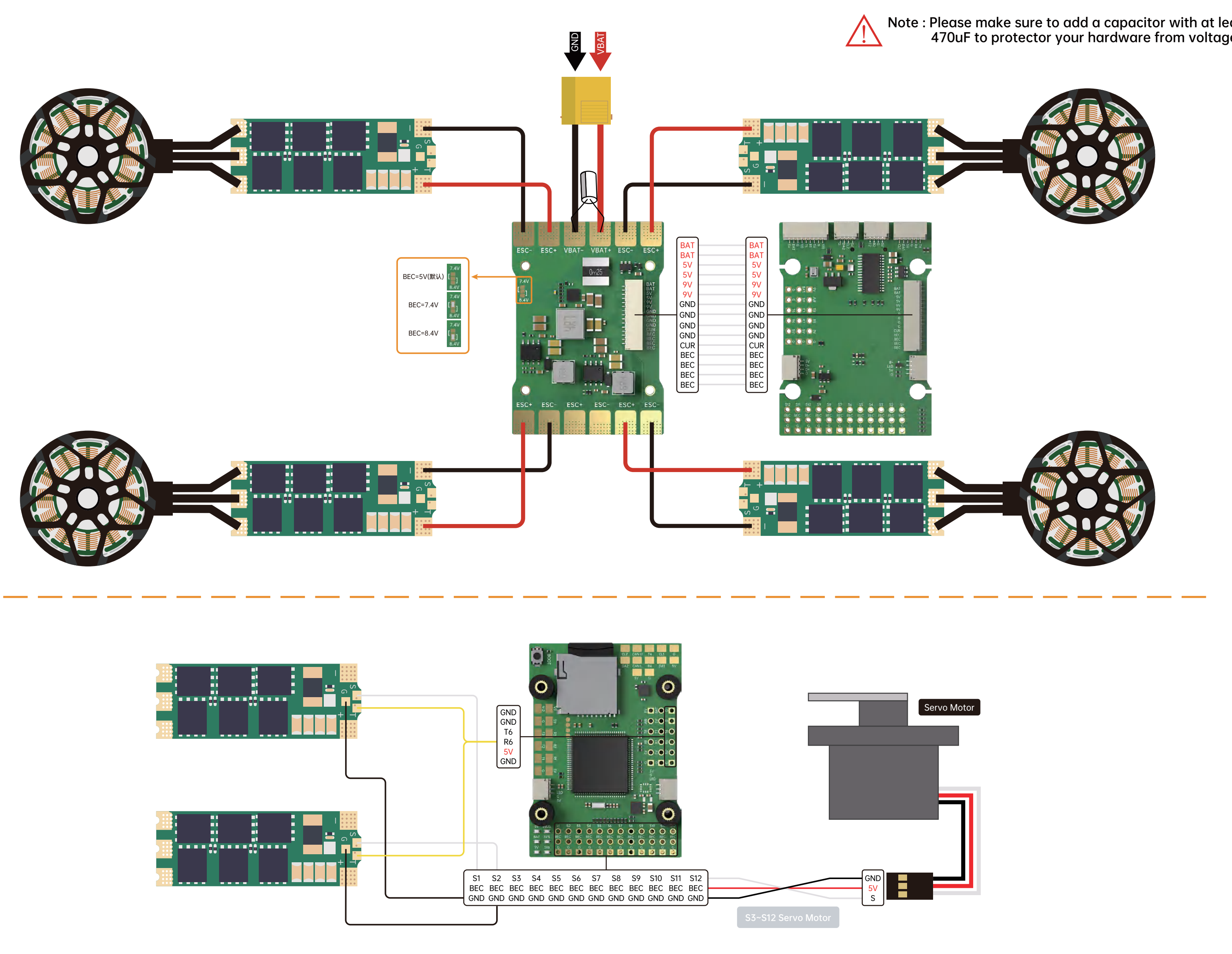
Any other Receiver





ESC/Servo Motor

⚠ Note : Please make sure to add a capacitor with at least 50V 470uF to protector your hardware from voltage spikes!



Dimensions/Mounting pattern