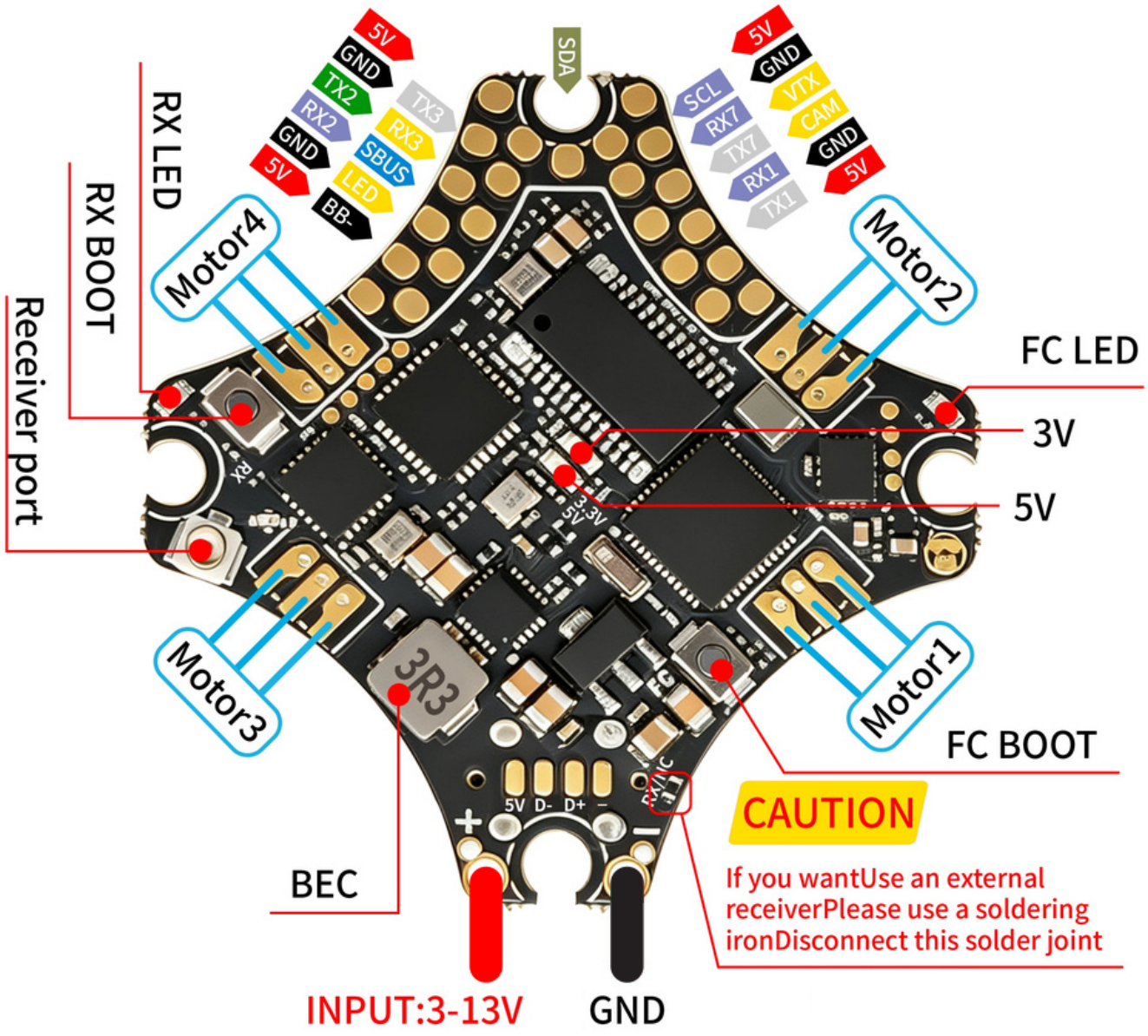
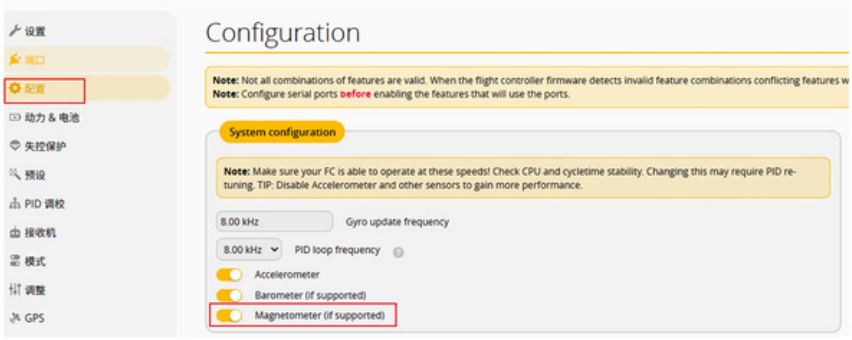
AlO Pad Overview: Front Side



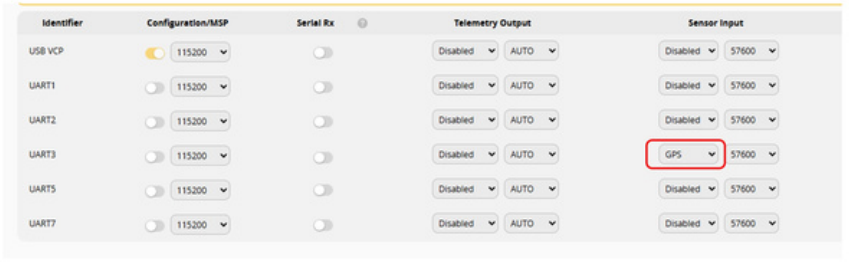
How to Connect GPS

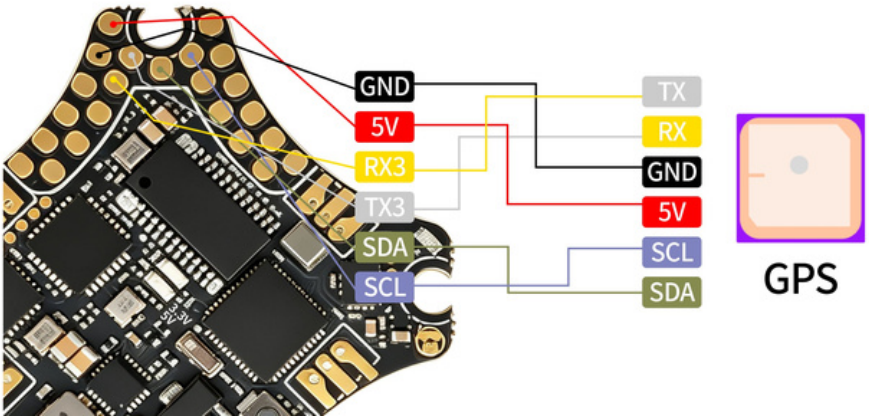
External GPS & compass supported. Solder as diagram, then enable Magnetometer in Betaflight.

Enable magnetometer:



Port Settings:





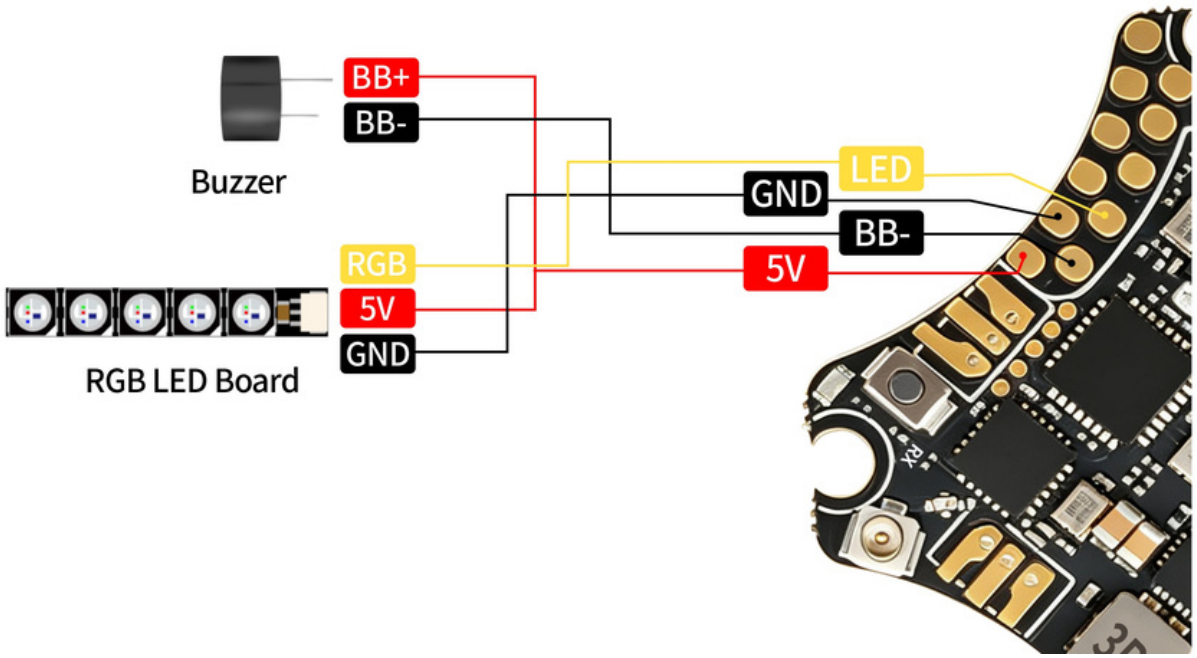
LED/Buzzer

Supports 5V RGB LED programmable light strip and buzzer alarm. Please solder as shown in the figure.

Port Settings:

Buzzer Configuration	
ON	GYRO_CACIBRATED
ON	RX_LOST
ON	RX_LOST_LOADING
ON	.....

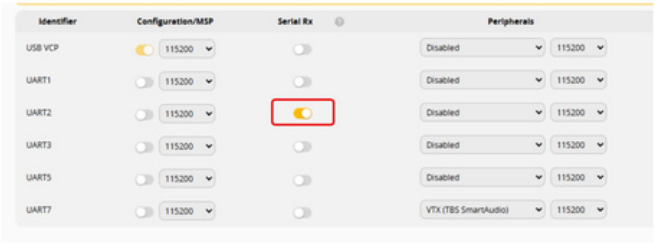
Other Functions	
OFF	TELEMETRY
ON	LED_STRIP
OFF	DISPLAY



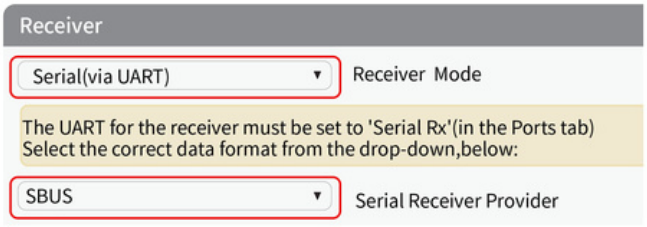
How to Connect SBUS Receiver

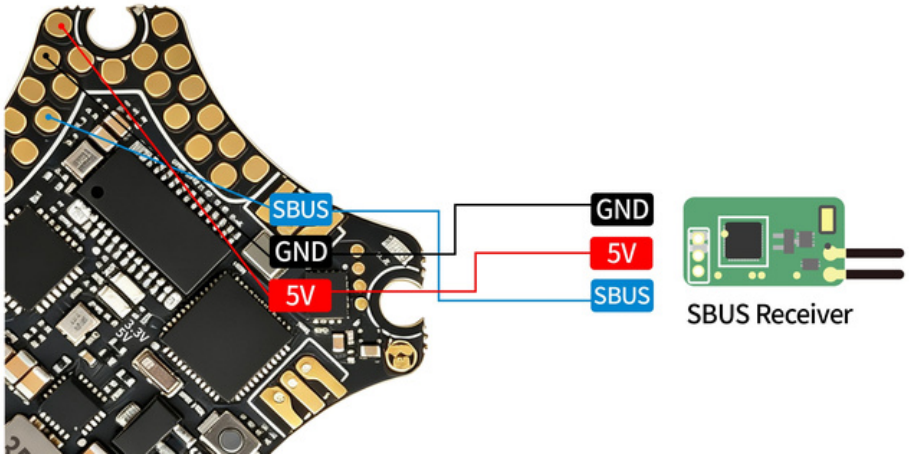
Supports SBUS receiver.Wire as shown, set UART2 to Serial RX in Betaflight Ports, select SBUS receiver protocol.

Port Settings:



Protocol Settings:

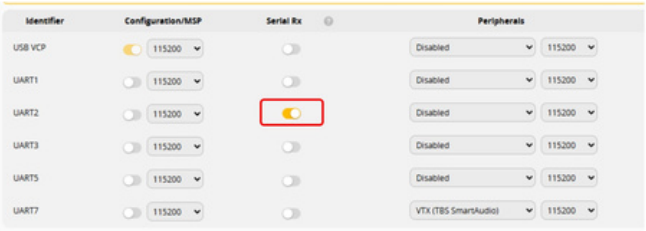




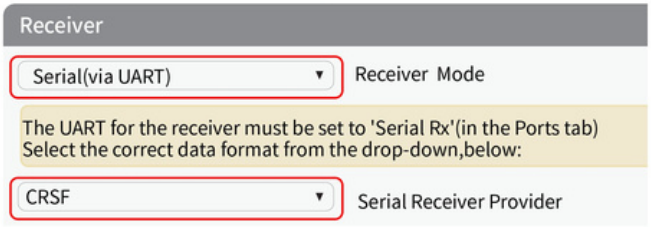
How to Connect ELRS/TBS Receiver

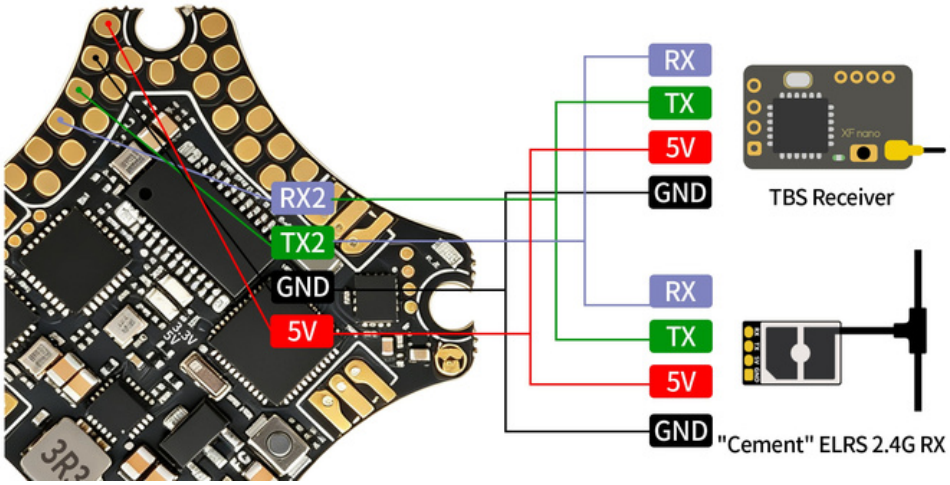
Supports external ELRS/TBS CRSF receivers.Wire as shown, set UART2 to Serial RX in Betaflight Ports, select CRSF receiver protocol.

Port Settings:



Protocol Settings:





How to connect HD digital VTX (DJI O4)

HD VTX port defaults to BAT power, with a 0Ω resistor between BAT and middle pad.Switch to 5V for 1S LiPo:
Desolder the 0Ω resistor from BAT, resolder it between middle and 5V pad.Or short middle & 5V pad directly with solder.HD VTX port defaults to BAT power, with a 0Ω resistor between BAT and middle pad.Switch to 5V for 1S LiPo:Desolder the 0Ω resistor from BAT, resolder it between middle and 5V pad.Or short middle 5V pad directly with solder.



Default state: BAT power
(0Ω resistor on BAT circuit)

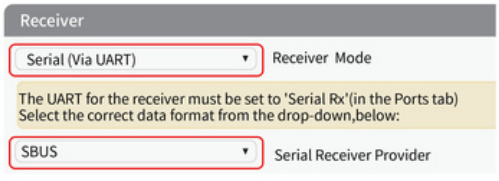


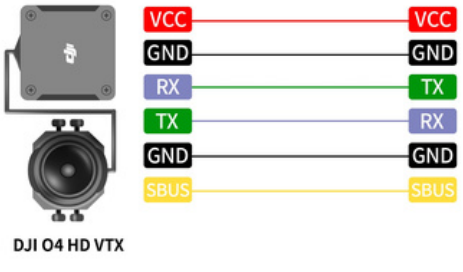
1S LiPo state: Move 0Ω
resistor to 5V circuit

Port Settings:



For built-in DJI SBUS receiver, set receiver protocol to SBUS in Betaflight.





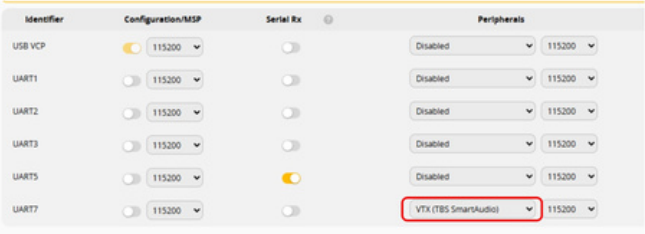
DJI O4 HD VTX



How to connect 5.8G analog VTX and camera

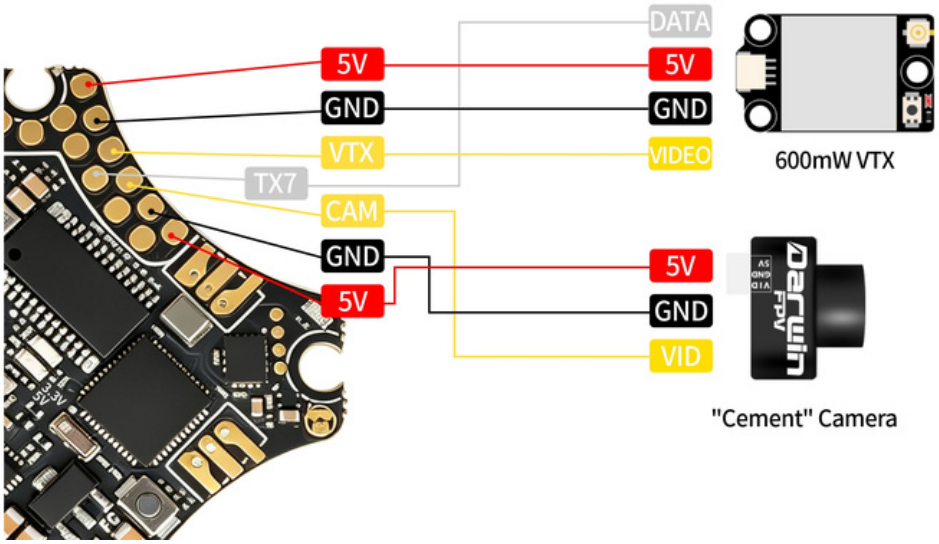
Complete wiring per diagram.
In Betaflight Ports tab, set UART7 peripheral to VTX (TBS SmartAudio).
Enable OSD on Features tab and save. You can adjust VTX settings by radio with flight data on screen.

Analog VTX:



Camera:

Other Features		
	AIRMODE	Permanently enable Airmode
	OSD	On Screen Display
	DYNAMIC_FILTER	Dynamic gyro notch filtering



AIO Rear Connector Definition

