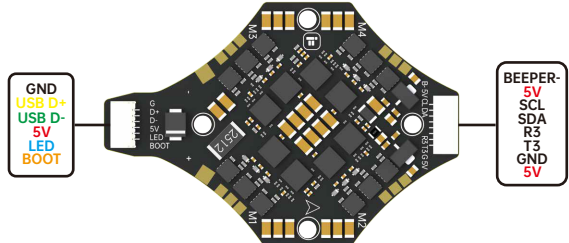
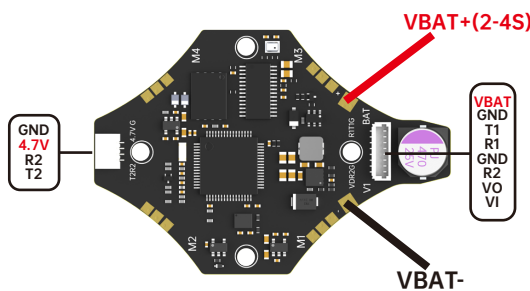
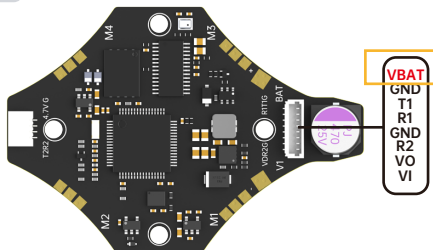


iFlight Defender 25 F7 AIO Wiring Diagram

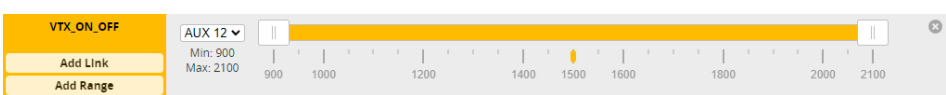


Notice

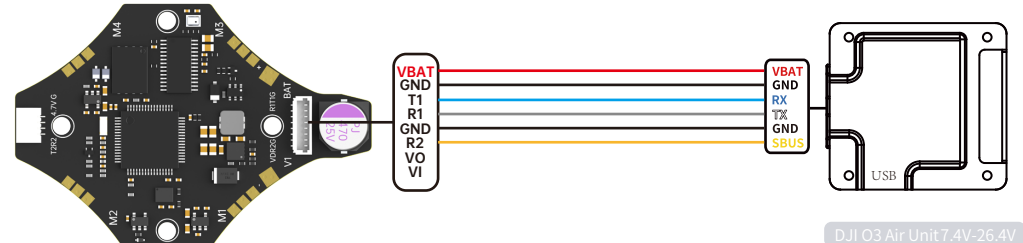
FC Firmware: (F400F, B01F, F702, A0, S1)



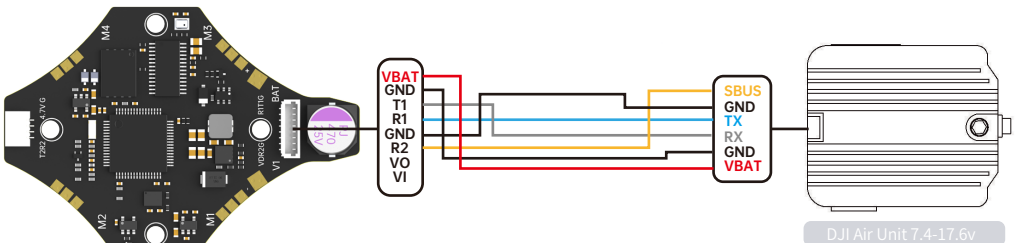
VBAT is a controllable output port. When the DJI Air Unit or any VTX is connected to VBAT, ensure that VTX_ON_OFF is always enable in Betaflight (place the AUX in any idle one), and set the AUX channel corresponding to the remote control switch if you wanna the VTX power to be controllable.



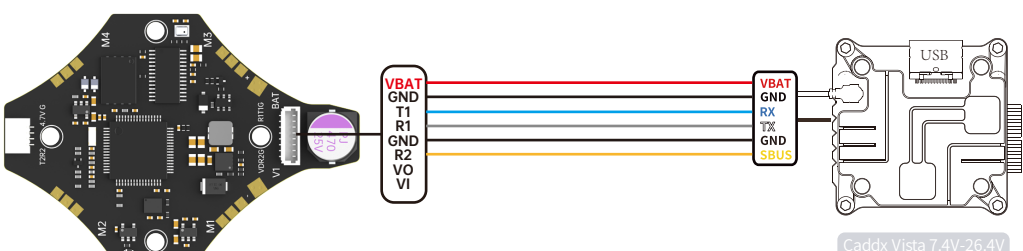
DJI Digital transmitters



DJI O3 Air Unit 7.4V-26.4V



DJI Air Unit 7.4-11.6v



Caddx Vista 7.4V-26.4V

Identifier	Configuration/MSP	Serial Rx
USB VCP	☒ 115200	☐
UART1	☒ 115200	☐
UART2	☒ 115200	☒
UART3	☐ 115200	☐
UART4	☐ 115200	☐
UART5	☐ 115200	☐
UART6	☐ 115200	☐

Receiver

Serial (via UART)

Receiver Mode

The UART for the receiver must be set to 'Serial Rx' in the Ports tab

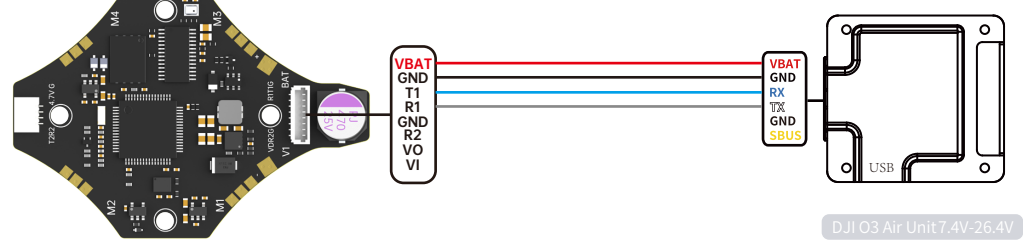
Select the correct data format from the drop-down, below

SBUS

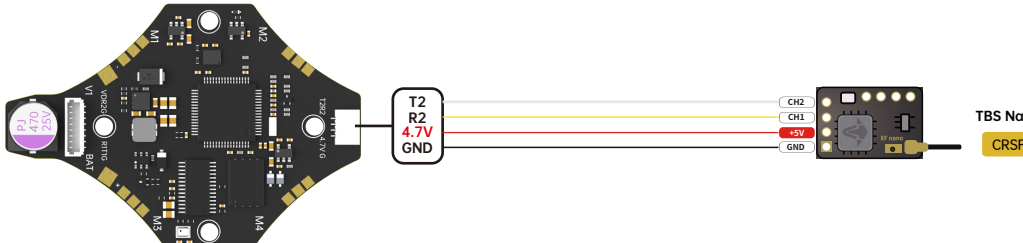
Serial Receiver Provider

- For DJI O3 Air Unit, in the Betaflight Configurator CLI, Set osd device to MSP: "set osd displayport device = MSP" Specify the serial port of msp displayport as 0 (the number in this place should be the serial port number minus 1): "set displayport msp serial = 0" then type "save" and exit
- note: DJI FPV Remote Controller 2 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 signal latency use the SBUS_BAUD_FAST protocol option on both ends.
- For Betaflight Copy/Paste "set sbus_baud_fast=on" into your Betaflight Configurator CLI then hit enter. Use "save" and hit enter to save the changes. Default: sbus_baud_fast=off, Goggle protocol set to NORMAL

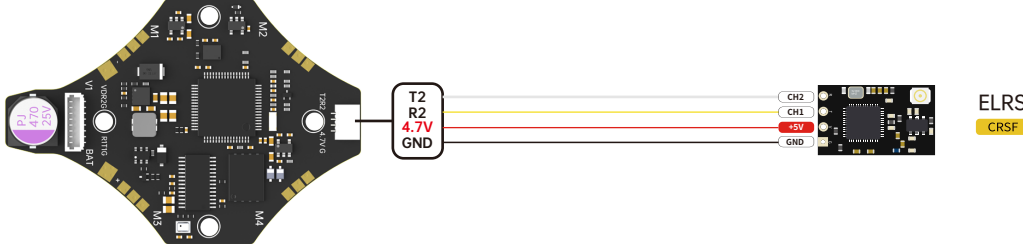
Any other receiver



DJI O3 Air Unit 7.4V-26.4V



TBS Nano CRSF



ELRS CRSF

Do not connect "SBUS" to the FC while using any other receiver

Identifier	Configuration/MSP	Serial Rx
USB VCP	☒ 115200	☐
UART1	☒ 115200	☐
UART2	☐ 115200	☐
UART3	☐ 115200	☐
UART4	☐ 115200	☐
UART5	☐ 115200	☐
UART6	☐ 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

CRSF

Serial Receiver Provider

Identifier	Configuration/MSP	Serial Rx
USB VCP	☒ 115200	☐
UART1	☐ 115200	☐
UART2	☐ 115200	☒
UART3	☐ 115200	☐
UART4	☐ 115200	☐
UART5	☐ 115200	☐
UART6	☐ 115200	☐

Telemetry

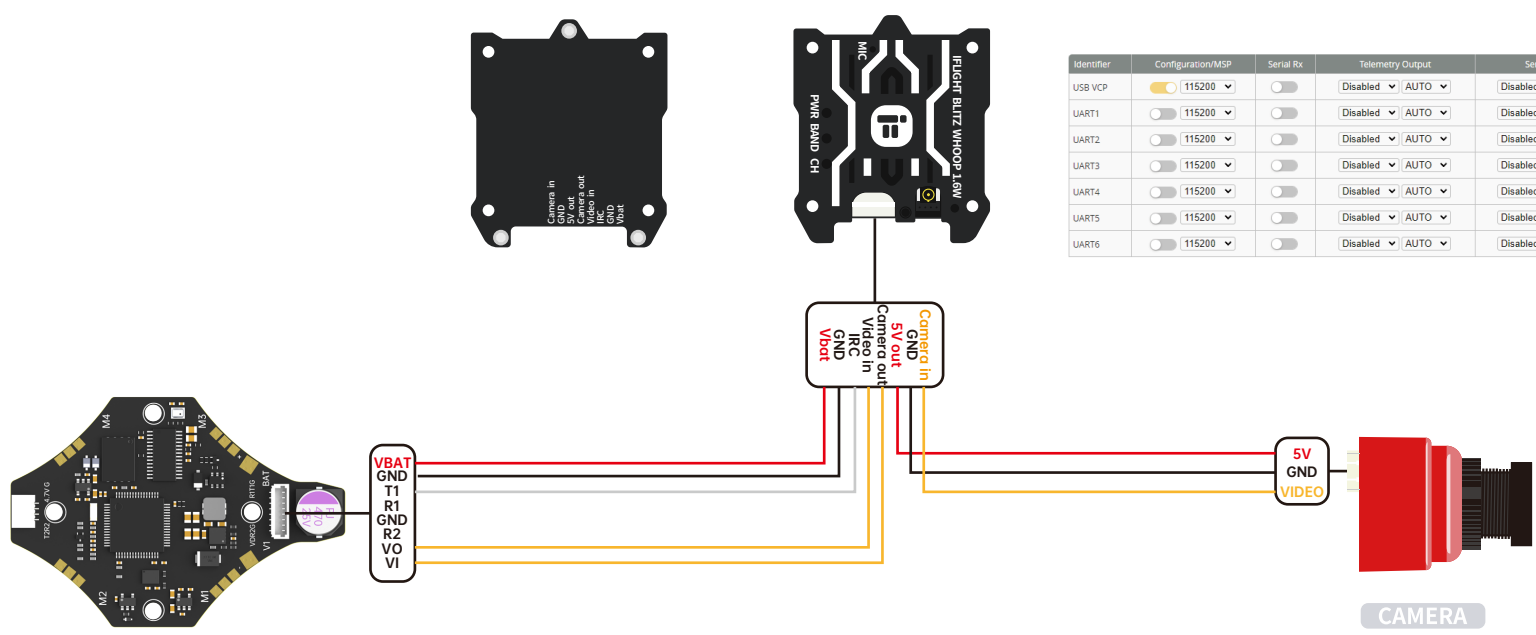
TELEMETRY

Telemetry output

Anti-Spark filter

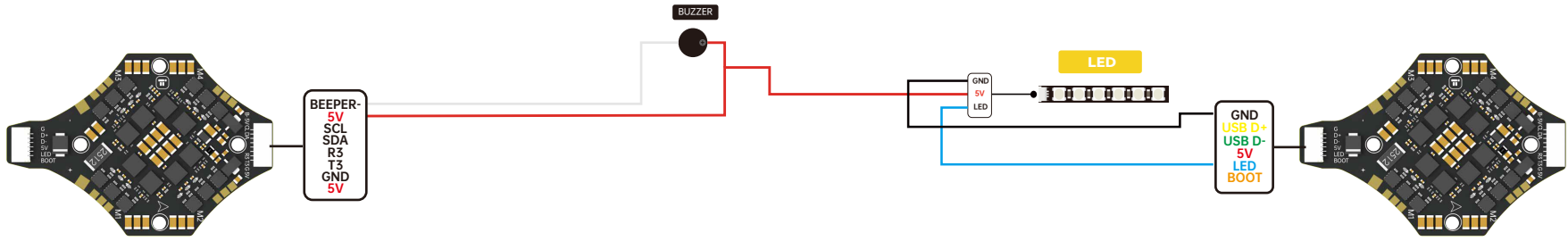


VTX & CAMERA

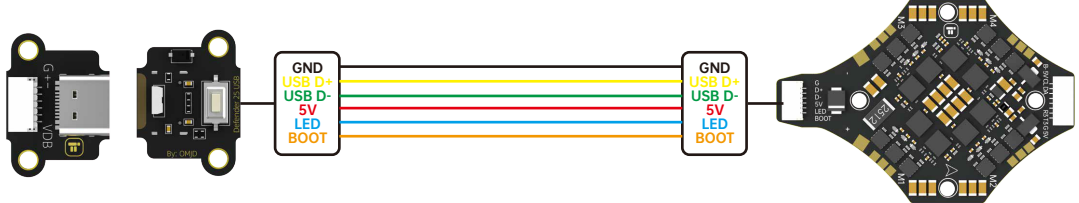


Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripheral
USB VCP	☒ 115200	☐	Disabled	AUTO	Disabled
UART1	☐ 115200	☐	Disabled	AUTO	Disabled
UART2	☐ 115200	☐	Disabled	AUTO	Disabled
UART3	☐ 115200	☐	Disabled	AUTO	Disabled
UART4	☐ 115200	☐	Disabled	AUTO	Disabled
UART5	☐ 115200	☐	Disabled	AUTO	Disabled
UART6	☐ 115200	☐	Disabled	AUTO	Disabled

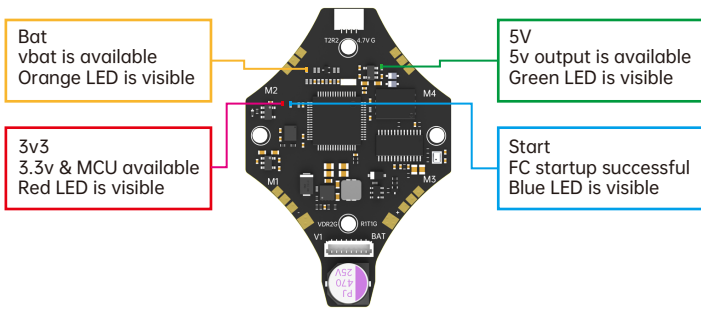
LED



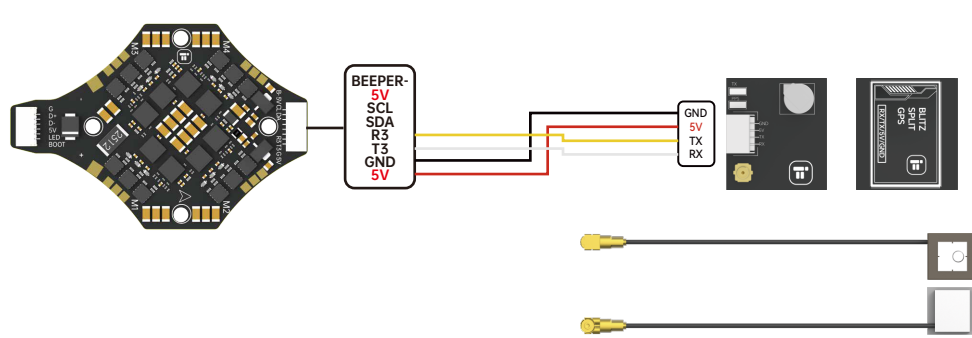
USB board



Status indicator



GPS



Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripheral
USB VCP	☒ 115200	☐	Disabled	AUTO	Disabled
UART1	☐ 115200	☐	Disabled	AUTO	Disabled
UART2	☐ 115200	☐	Disabled	AUTO	Disabled
UART3	☐ 115200	☐	Disabled	AUTO	Disabled
UART4	☐ 115200	☐	Disabled	AUTO	Disabled
UART5	☐ 115200	☐	Disabled	AUTO	Disabled
UART6	☐ 115200	☐	Disabled	AUTO	Disabled