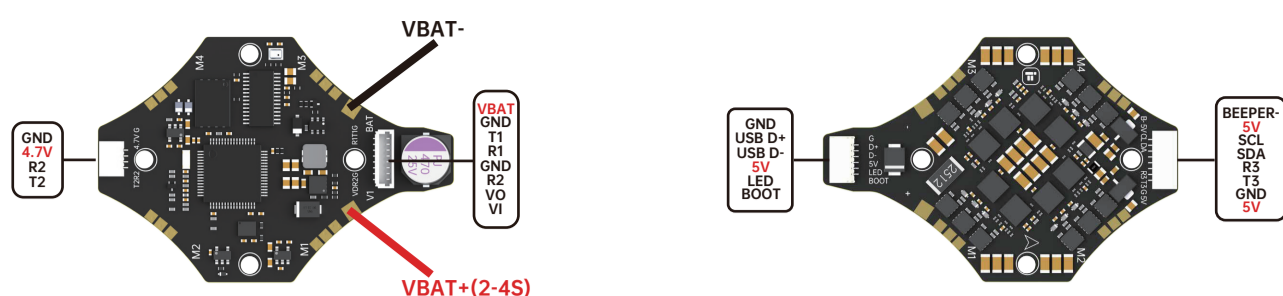
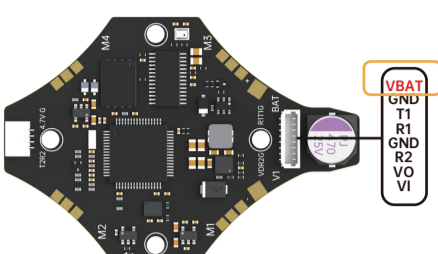


iFlight Defender 25 F7 AIO Wiring Diagram

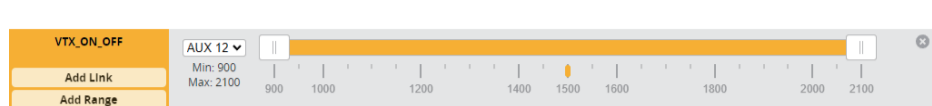


Notice

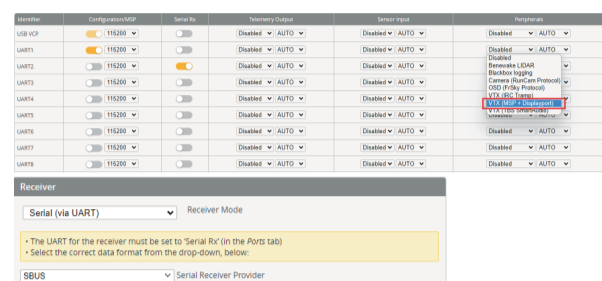
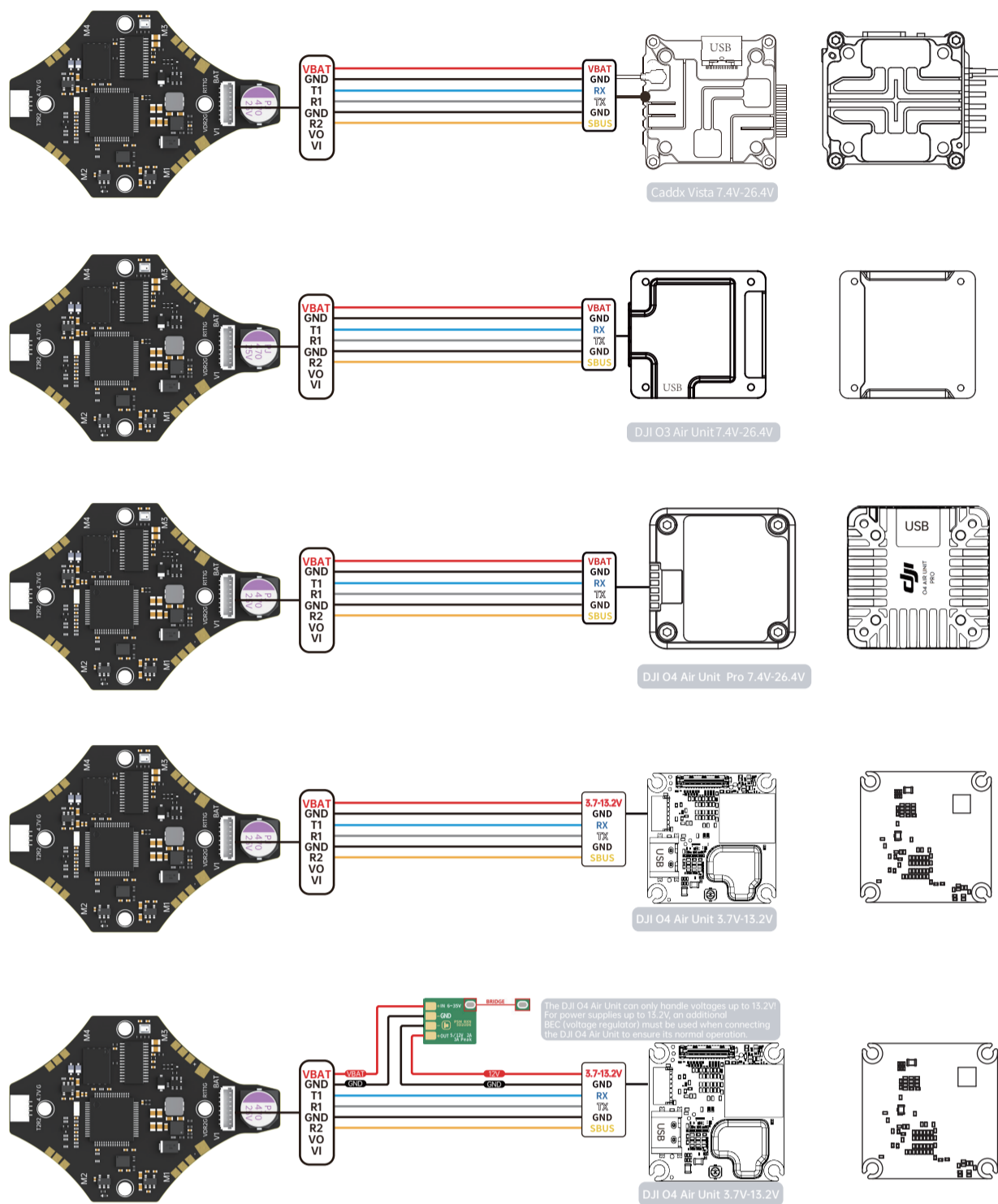
FC Firmware: iFLIGHT DEFENDER 7.02 AIO V1



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 want the VTX power to be controllable.

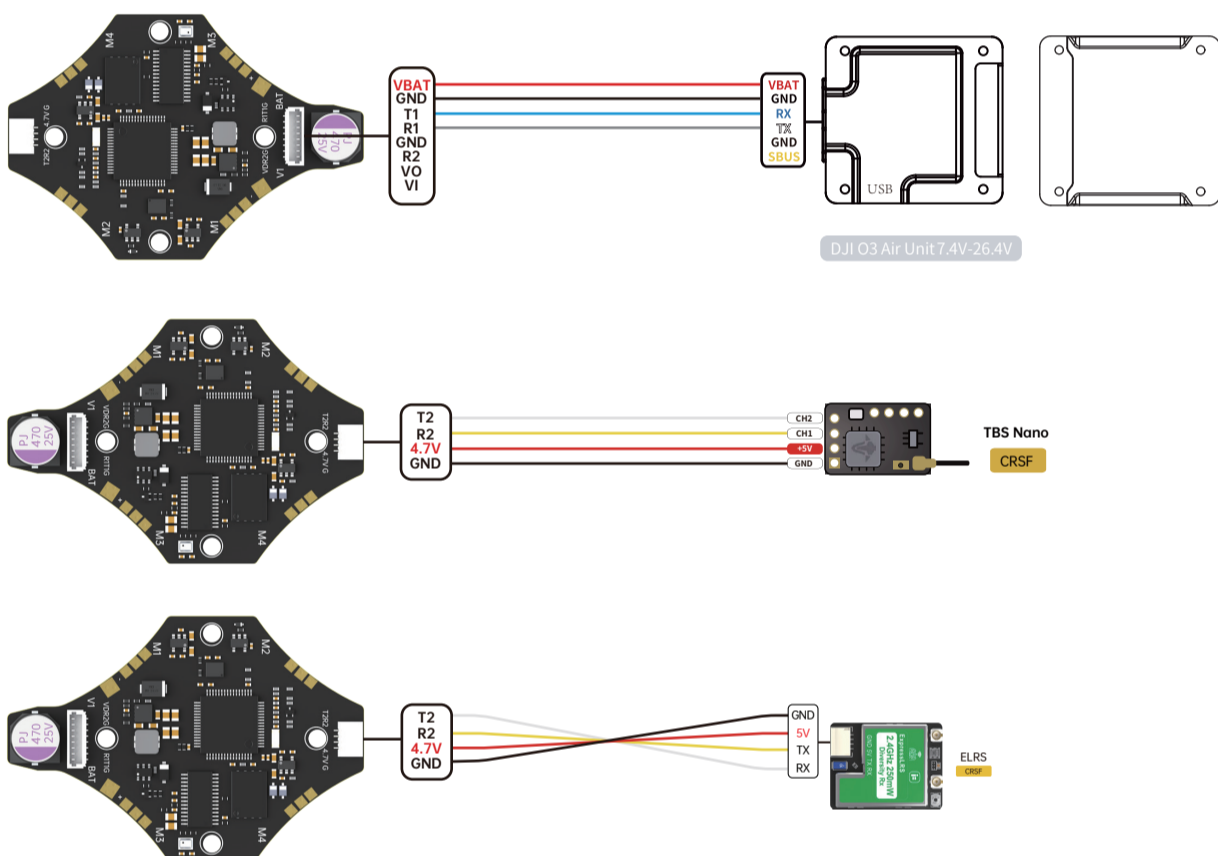


DJI Digital Transmitters



- 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
- 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_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

Others Receivers

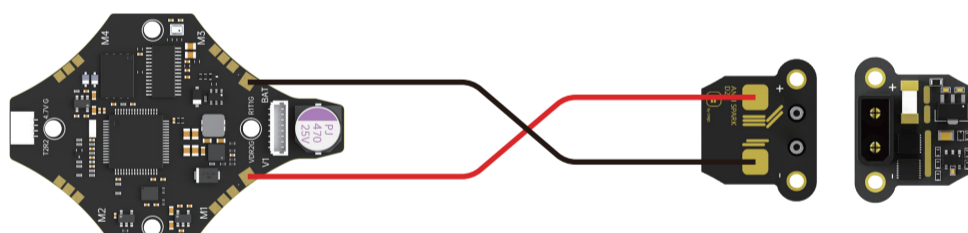


Do not connect "SBus" to the FC while using any other receiver

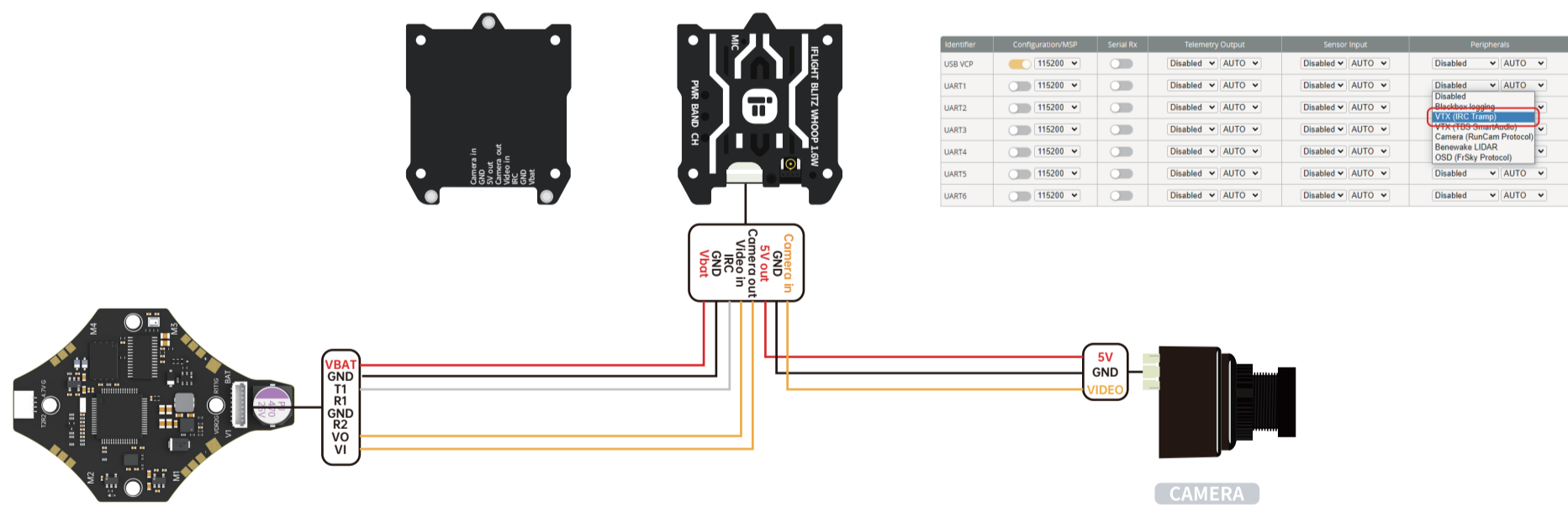
Identifier	Configuration/MSP	Serial Rx
USB VCP	115200	
UART1	115200	
UART2	115200	
UART3	115200	
UART4	115200	
UART5	115200	
UART6	115200	

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

Anti-Spark filter

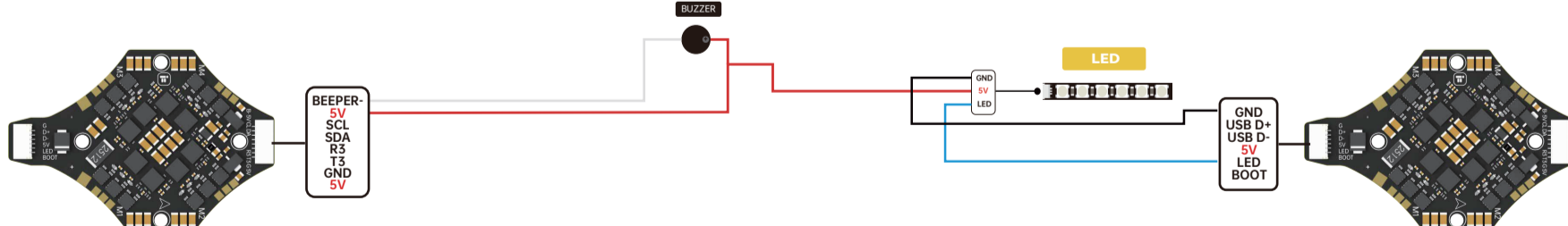


VTX & CAMERA



Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Serial Input	Receiver
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

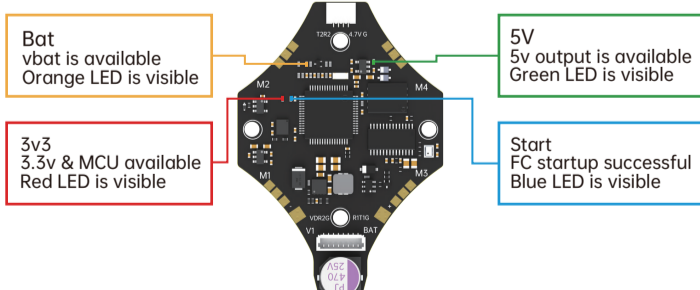
LED



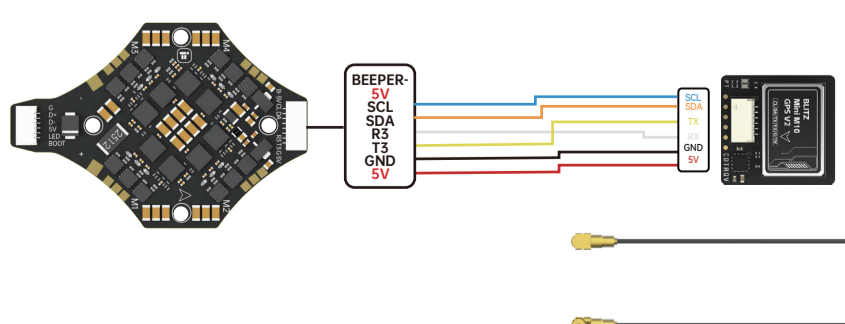
USB



Status indicator



GPS



GPS configuration settings:

- GPS: Enabled
- NOTE: Remember to configure a Serial Port (via Ports tab) when using GPS feature.
- NOBLEX: Protocol
- Auto Baud: Disabled
- Auto Config: Disabled
- Use Galileo: Enabled
- Set Home Point Once: Disabled
- Auto-detect: Ground Assistance Type

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Serial Input	Receiver
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