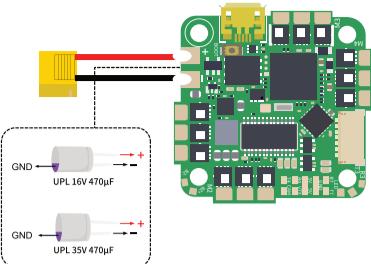
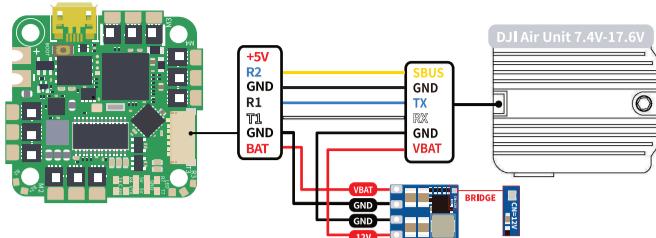


# iFlight Beast H743 55A AIO V2 Wiring Diagram

## Caution

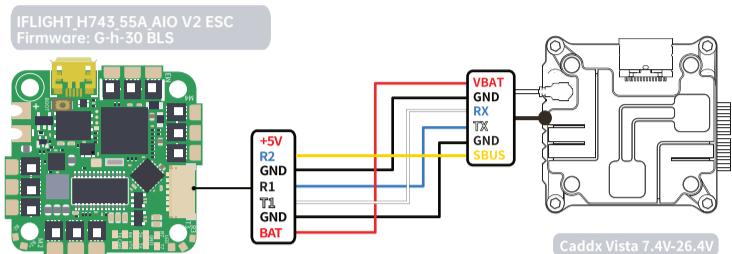


- This is a tiny high power AIO board! It's necessary to add a low ESR capacitor on your battery pads or battery lead! There's a choice of capacitors already in the package.
- Small 4S motors usually need 16V/220μF and up, for bigger and more aggressive 6S motors use at least 35V/470μF. It's necessary to protect the hardware from motor generated back EMF and voltage spikes.



- The DJI Plug&Play connector has a VBAT passthrough! Please remember, the DJI Air Unit can just handle voltage up to 4S! To fly up to 6S batteries, please use an additional BEC (Voltage regulator).

## DJI Digital Transmitters



Identifier	Configuration/MSP	Serial Rx
USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	ON
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

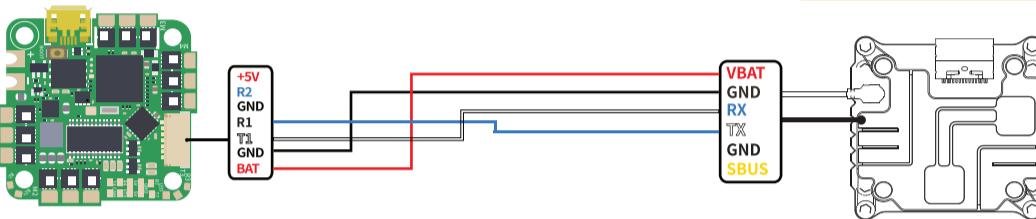
- Please check your protocols, otherwise your DJI Radio won't input signals!
- DJI Goggle protocol and Betaflight protocol has to match! For lower signal latency use the SBUS\_BAUD\_FAST protocol option on both ends.
- For Betaflight Copy/Paste "set sbus\_baud\_fast=on" into your Betaflight Configurator CLI then hit enter. Use "save" and hit enter to save the changes.
- Default: sbus\_baud\_fast=off, Goggle protocol set to NORMAL

Receiver

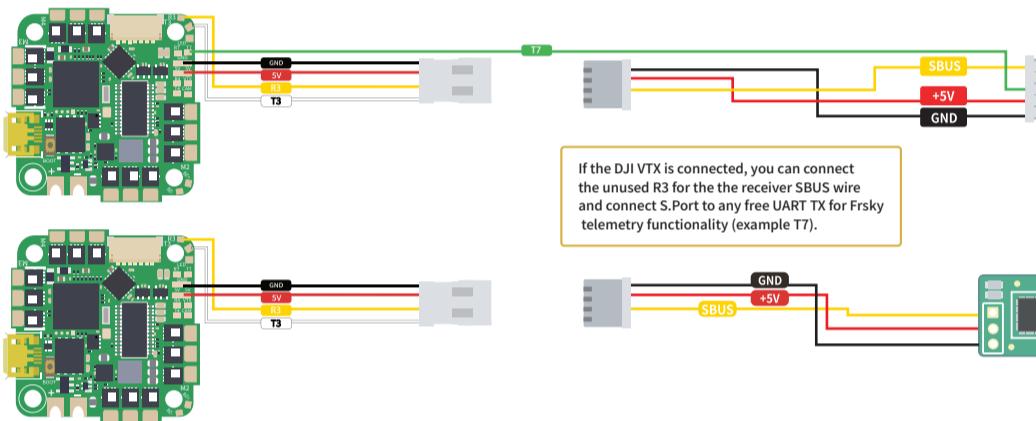
Serial-based receiver (SPEKSAT, S) Receiver Mode

Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX\_SERIAL feature.

SBUS Serial Receiver Provider



## Use another transmitter(HD)



When not using the DJI remote controller, don't connect the SBUS and GND.



Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	ON
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

Receiver

Serial-based receiver (SPEKSAT, S) Receiver Mode

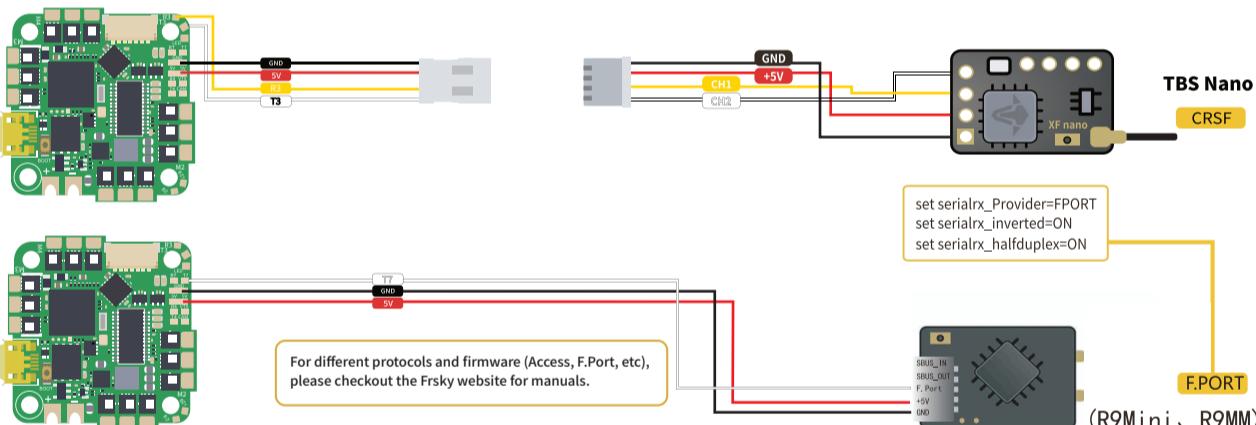
Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX\_SERIAL feature.

SBUS Serial Receiver Provider

Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

TELEMETRY



TBS Nano CRSF

set serialrx\_Provider=FPORT  
set serialrx\_inverted=ON  
set serialrx\_halfduplex=ON

Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

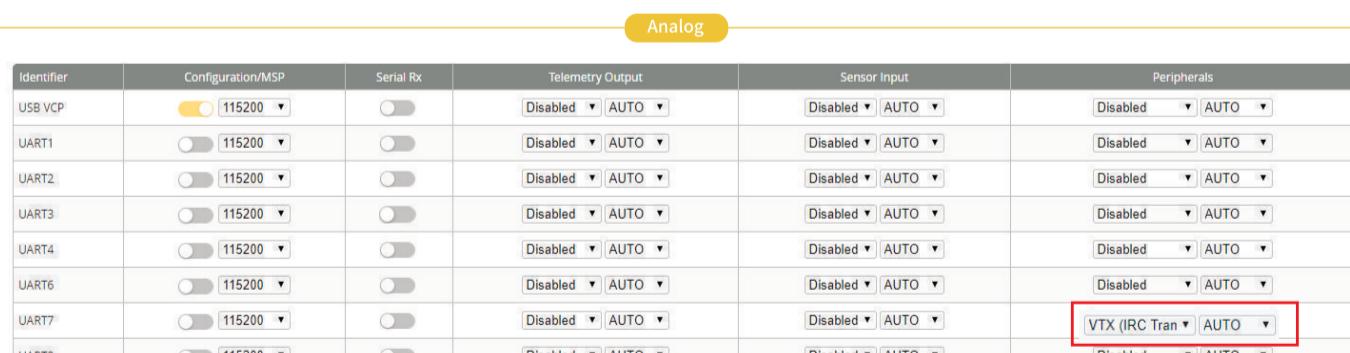
Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

TELEMETRY



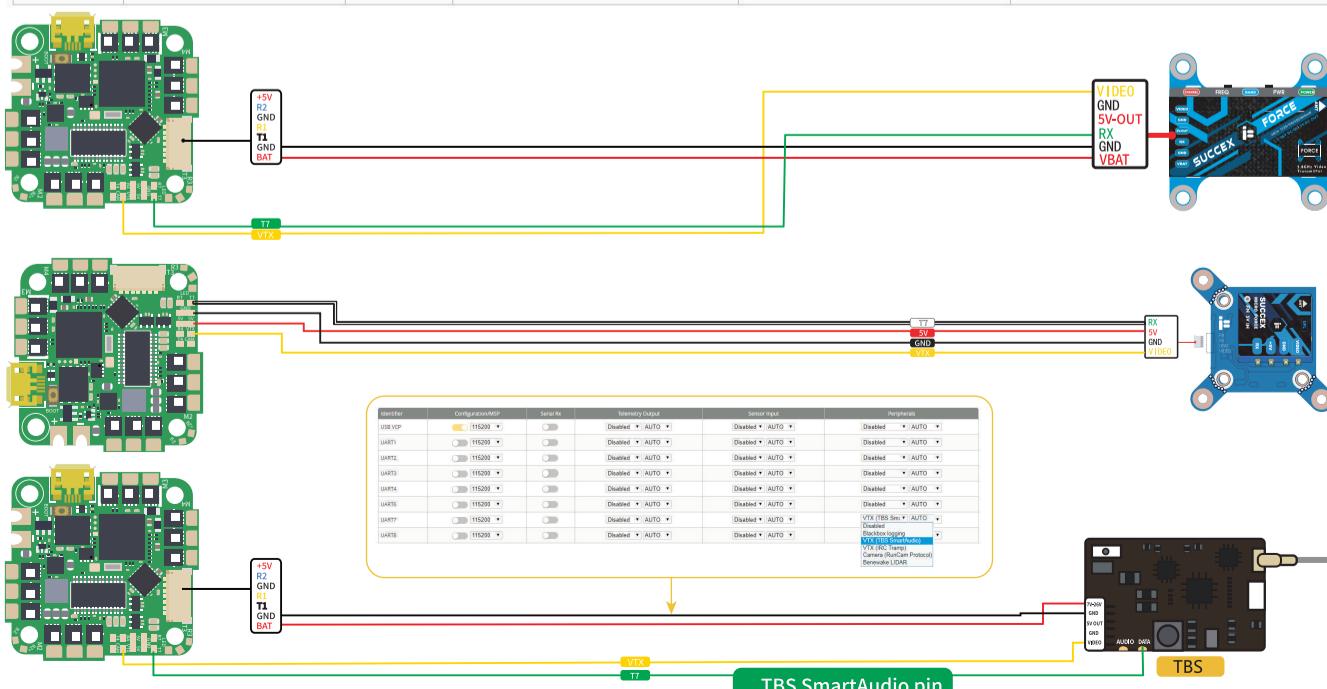
Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

TELEMETRY



Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

Identifier Configuration/MSP Serial Rx

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UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

Identifier Configuration/MSP Serial Rx

USB VCP	115200	OFF
UART1	115200	OFF
UART2	115200	OFF
UART3	115200	OFF
UART4	115200	OFF
UART6	115200	OFF
UART7	115200	OFF
UART8	115200	OFF

Start FC startup successful Blue LED is visible