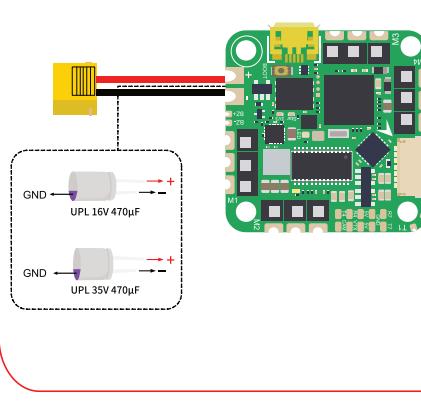


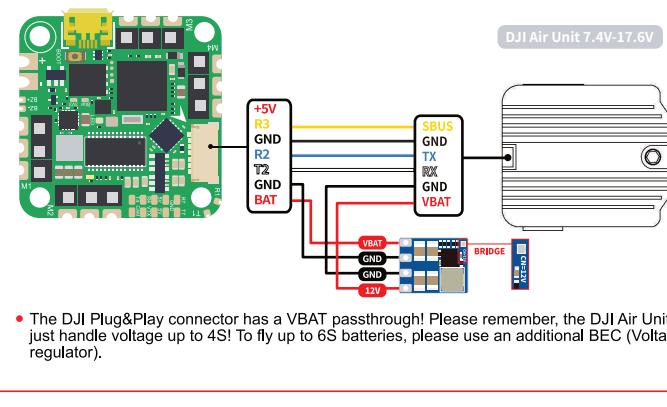
# IFLIGHT Beast H7 55A AIO Wiring Diagram

## 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.

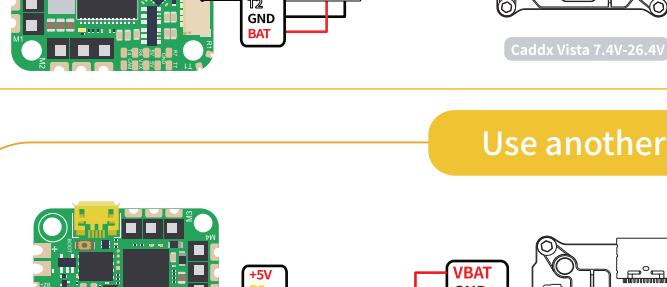
- Small 4S motors usually need 16V/220µF and up, for bigger and more aggressive 6S motors use at least 35V/470µF. It's necessary to protect the hardware from motor generated back EMF and voltage spikes.



- 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

Firmware Target:IFLIGHT\_H743\_AIO  
ESC Firmware:G-H-30 BLS 16.7

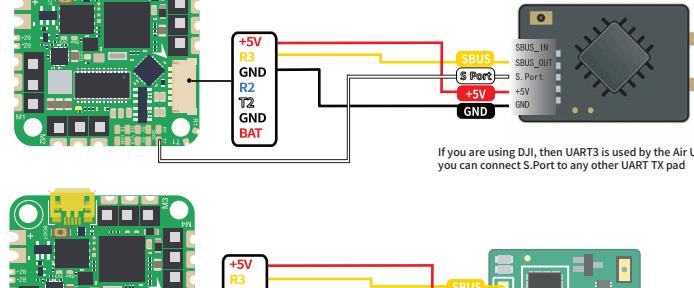


Identifier	Configuration/MSP	Serial Rx
USB VCP	115200	<input type="checkbox"/>
UART1	115200	<input type="checkbox"/>
UART2	115200	<input type="checkbox"/>
UART3	115200	<input checked="" type="checkbox"/>
UART4	115200	<input type="checkbox"/>
UART5	115200	<input type="checkbox"/>
UART6	115200	<input type="checkbox"/>
UART7	115200	<input type="checkbox"/>
UART8	115200	<input type="checkbox"/>

Please check your protocols, otherwise your DJI Radio won't input signals!  
Both Gopro 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, Gopro protocol set to NORMAL

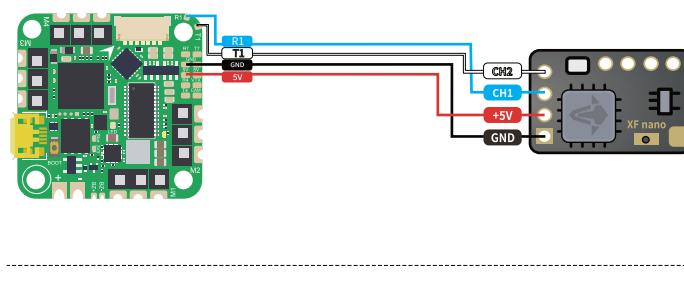
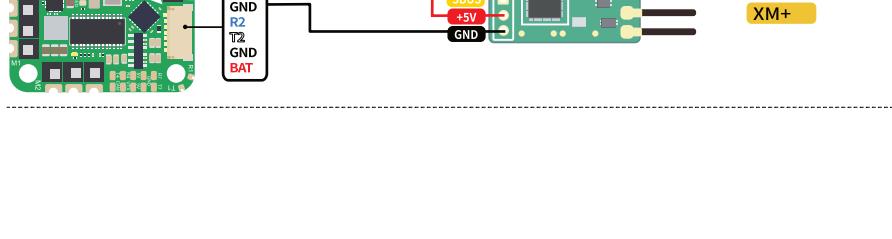
Receiver	Serial-based receiver (SPEKSAT, S)	Receiver Mode
Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.		
SBUS	Serial Receiver Provider	

## Use another transmitter(HD)

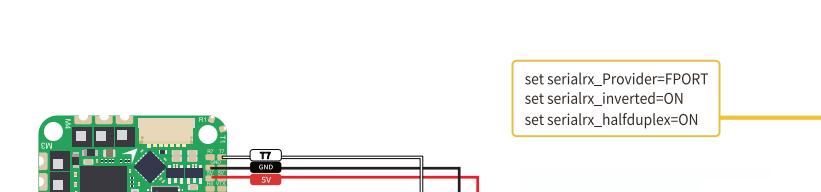


When not using the DJI remote controller, don't connect the SBUS and GND.

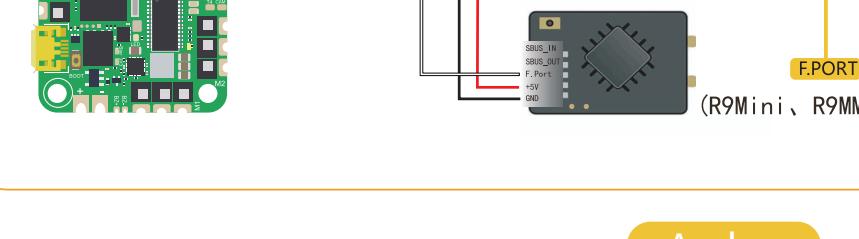
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USB VCP	115200	<input type="checkbox"/>
UART1	115200	<input type="checkbox"/>
UART2	115200	<input checked="" type="checkbox"/>
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UART4	115200	<input type="checkbox"/>
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UART7	115200	<input type="checkbox"/>
UART8	115200	<input type="checkbox"/>



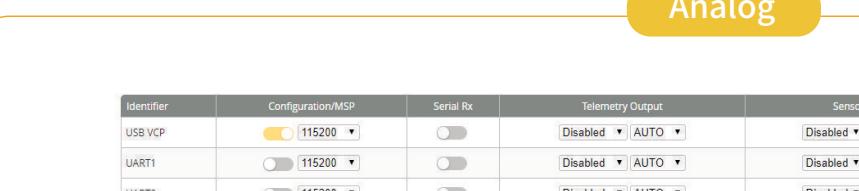
Identifier	Configuration/MSP	Serial Rx
USB VCP	115200	<input type="checkbox"/>
UART1	115200	<input type="checkbox"/>
UART2	115200	<input checked="" type="checkbox"/>
UART3	115200	<input type="checkbox"/>
UART4	115200	<input type="checkbox"/>
UART5	115200	<input type="checkbox"/>
UART6	115200	<input type="checkbox"/>
UART7	115200	<input type="checkbox"/>
UART8	115200	<input type="checkbox"/>



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USB VCP	115200	<input type="checkbox"/>
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UART4	115200	<input type="checkbox"/>
UART5	115200	<input type="checkbox"/>
UART6	115200	<input type="checkbox"/>
UART7	115200	<input type="checkbox"/>
UART8	115200	<input type="checkbox"/>



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USB VCP	115200	<input type="checkbox"/>
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UART4	115200	<input type="checkbox"/>
UART5	115200	<input type="checkbox"/>
UART6	115200	<input type="checkbox"/>
UART7	115200	<input type="checkbox"/>
UART8	115200	<input type="checkbox"/>



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USB VCP	115200	<input type="checkbox"/>
UART1	115200	<input type="checkbox"/>
UART2	115200	<input checked="" type="checkbox"/>
UART3	115200	<input type="checkbox"/>
UART4	115200	<input type="checkbox"/>
UART5	115200	<input type="checkbox"/>
UART6	115200	<input type="checkbox"/>
UART7	115200	<input type="checkbox"/>
UART8	115200	<input type="checkbox"/>

## Analog

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART2	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART5	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART6	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART7	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO)
UART8	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART2	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART5	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART6	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART7	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART8	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO)

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART2	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART5	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART6	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART7	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART8	115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	VTX (IRC Tran)

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals


</tbl\_r