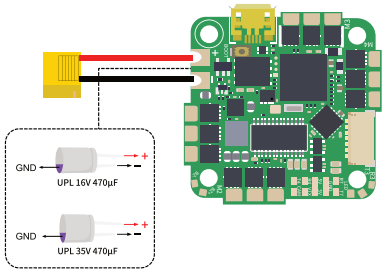
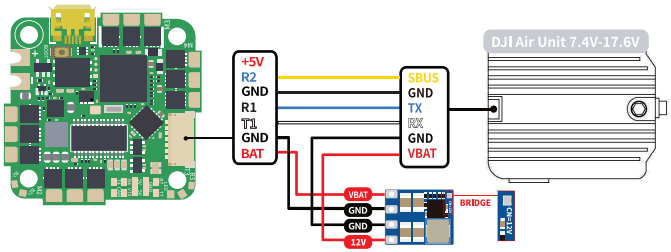
IFLIGHT Beast F745A V1.2 AIO Wiring Diagram

Caution



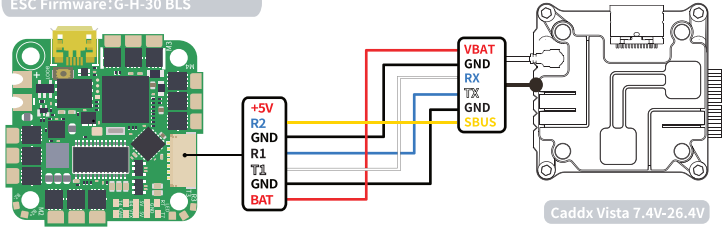
- This is a tiny high power AIO board! It's neccesary to add a low ESR capacitor on your battery pads or battery lead! There's a choice of capacitors already in the package.
- Small 4S motors usually need 16V/220μF and up, for bigger and more aggressive 6S motors use at least 35V/470μF. It's necessary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

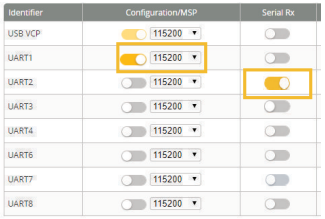


- The DJI Plug&Play connector has a VBAT passthrough! Please remember, the DJI Air Unit canjust handle voltage up to 4S! To fly up to 6S batteries, please use an additional BEC (Voltage regulator).

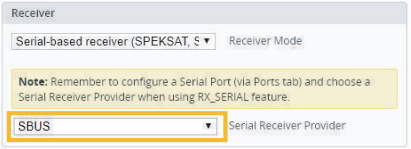
DJI Digital Transmitters

Firmware Target:IFLIGHT_F745_AIO
ESC Firmware:G-H-30 BLS

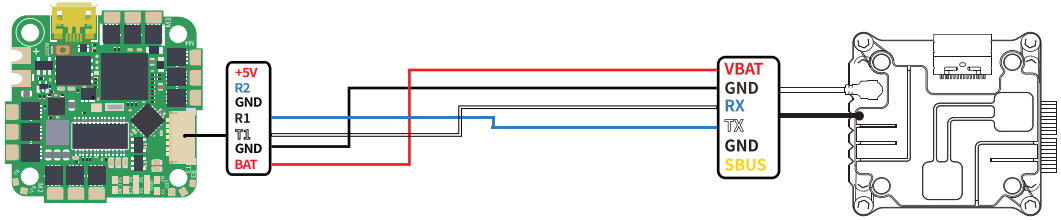




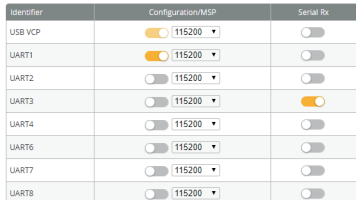
- Please check your protocols, otherwise your DJI Radio won' t input signals!
  DJI Goggle protocol and Betaflight protocol has to match!
  For lower signal latency use the SBUS_BAUD_FAST protocol option on both ends.
  For Betaflight Copy\Paste "set sbus_baud_fast=on" into your Beataflight Configurator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

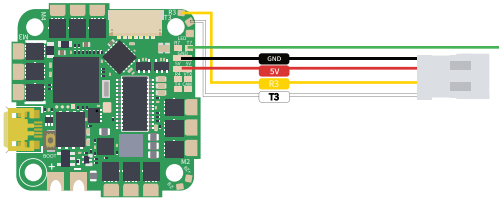


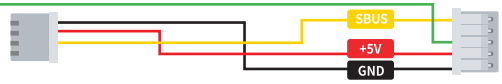
Use another transmitter(HD)

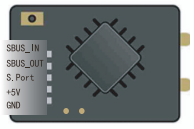


When not using the DJI remote controller, don't connect the SBUS and GND.



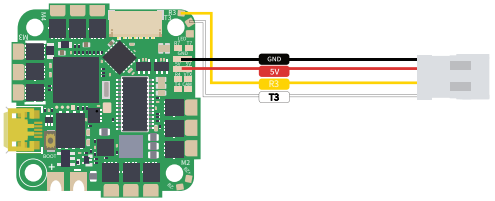




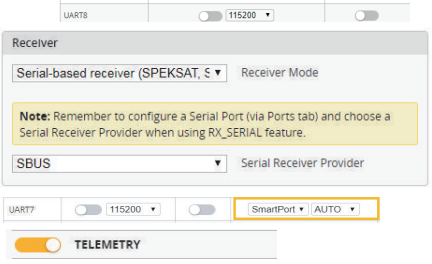


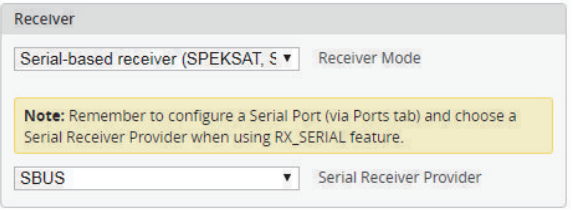
FrSKY
R-XSR
SBUS
+S.port
(R9Mini、R9MM)

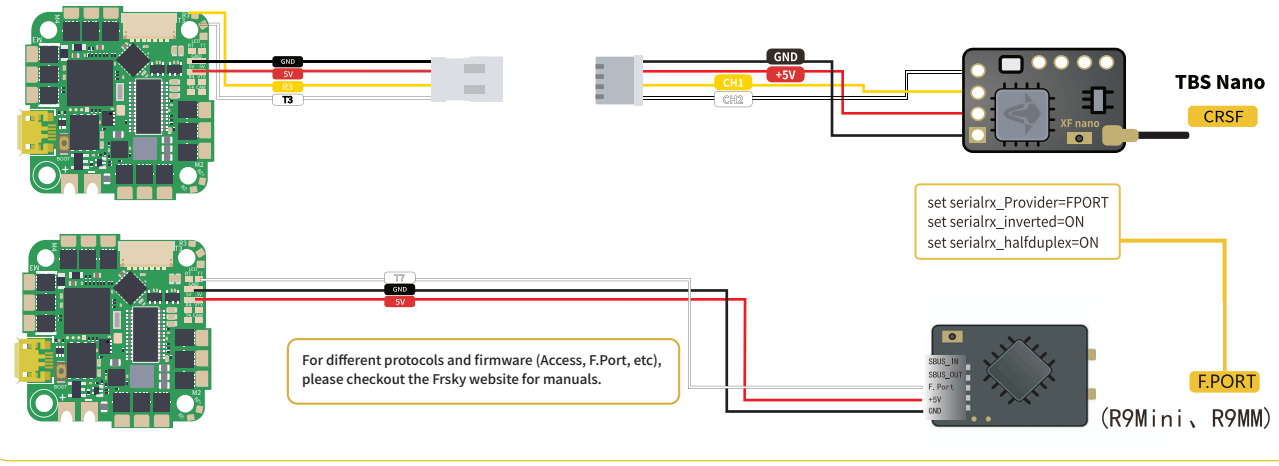
If the DJI VTX is connected, you can connect the unused R3 for the the receiver SBUS wire and connect S.Port to any free UART TX for Frsky telemetry functionality (example T7).

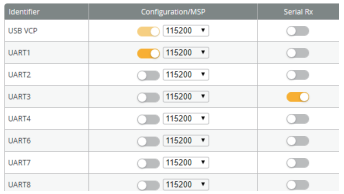


SBUS
XM+

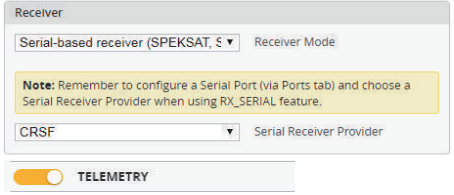


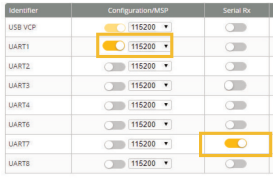






Identifier	Configuration/MSP	Serial Rx
USB VCP	115200	
UART1	115200	
UART2	115200	
UART3	115200	
UART4	115200	
UART6	115200	
UART7	115200	
UART8	115200	





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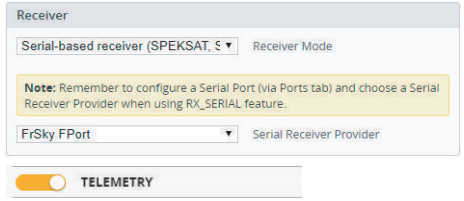
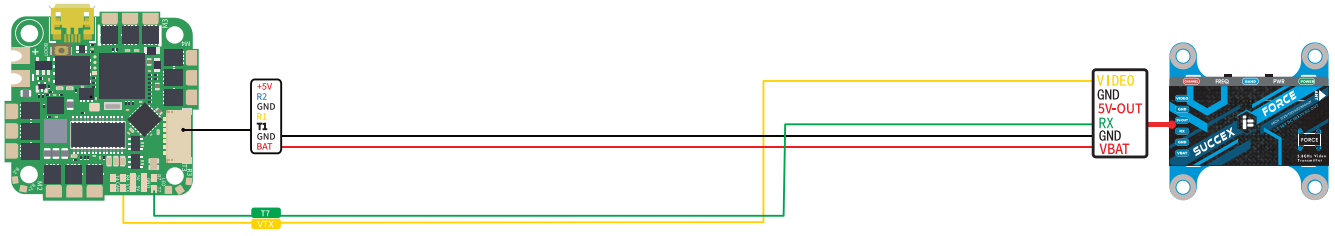
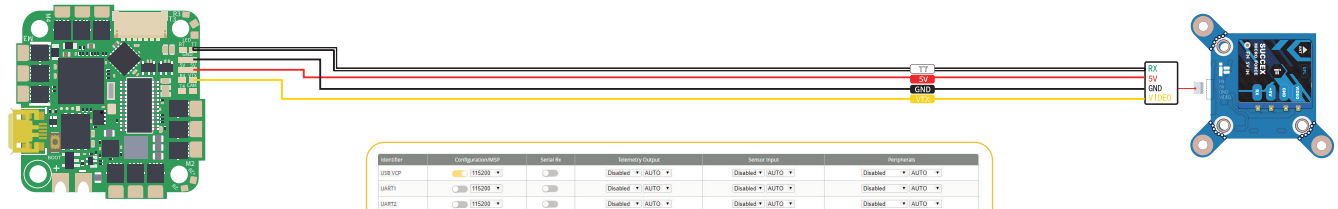
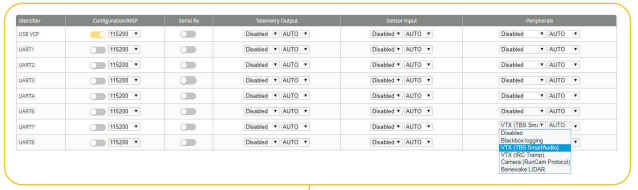


Analog

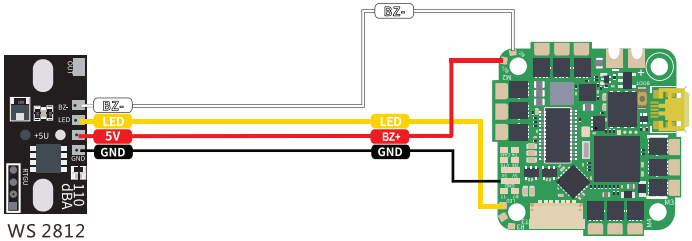
Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART1	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART2	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART3	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART4	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART6	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART7	115200		Disabled / AUTO	Disabled / AUTO	VTX (IRC Tran / AUTO
UART8	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO



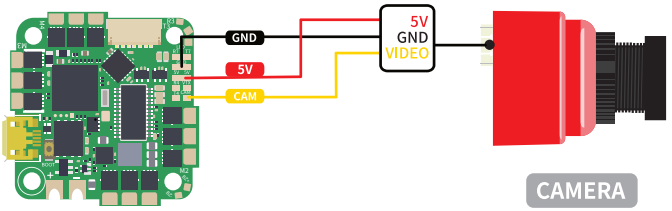




LED/BUZZER



CAM



Status indicator