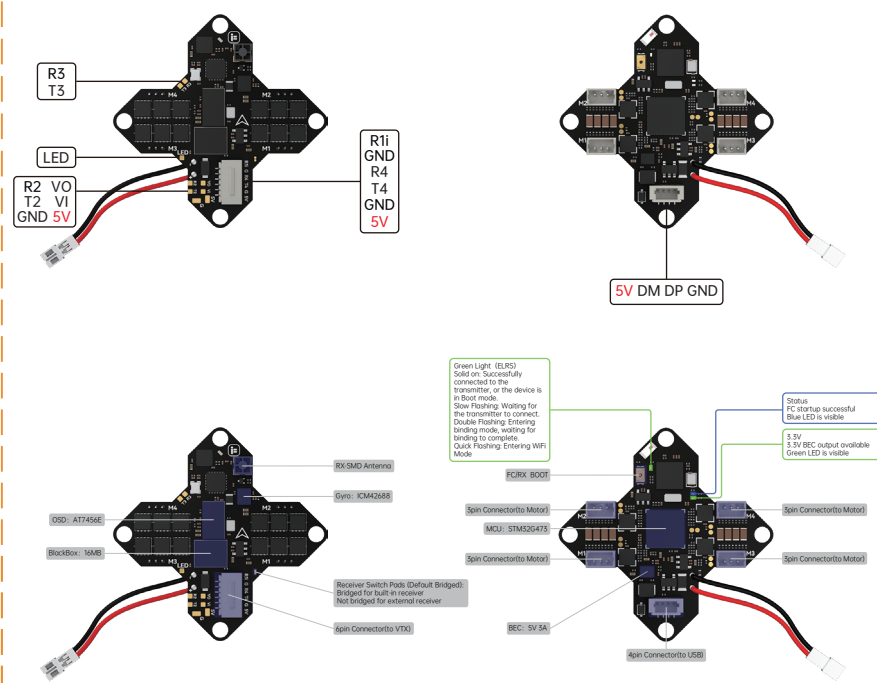


iFlight Borg G4 AIO (RX) Wiring diagram

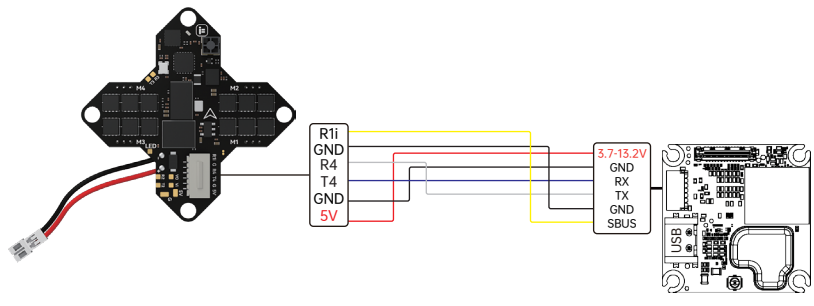
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


FC Specifications	Receiver
Input voltage: 1S, Support LiHV battery	MCU: N/A
Dimensions: 30*30mm*1	RF: SX1278
Mount pattern: 25.5*25.5φ3	Serial: RS485
Weight: 4g*1	Telemetry: LoRa
MCU: STM32G473	LNA: v1.0
Gyro: ICM42688	Firmware: V1.0
Baro: N/A	Lua Script: Lua
OSD: AT7456E	TCXO: Y
BlackBox: 16MB	
Motor outputs: 4	
I2C: N/A	
BEC: 5V 3A	
LED Strip: Supported	
Beeper: N/A	
VTX protocol: Support DJI MSP/Smartaudio/IRCTramp/HDZero	
UARTs: 4	
Uart: 4*UART (UART1, UART2, UART3, UART4)	
UART1: SBus input	
UART2: GPS or other sensors that require a serial port	
UART3: Built-in ELRS receiver/SBus input	
UART4: VTX HD	
ESC Specifications:	
MCU: EFM8BB5F16	
Driver: N/A	
Input voltage: 1S, Support LiHV battery	
Output current: 12A Continuous	
Peak current: 18A 3 Seconds	
ESC Firmware: C-X-5, Bluejay, 0.19, 96kHz	
Current Sensor Rate: 400 (1/10mV/A)	
BEC: N/A	
Telemetry: N/A	
Bidirectional DSHOT: Supported	
Protocols: Supported DSHOT50/300/600, MultiShot, OneShot	
Firmware: BL/6 (Beta/5.5)	

Firmware:
FC Firmware: IFLIGHT_BORG_G4_AIO
ESC Firmware: C-X-5 - Bluejay, 0.19, 96kHz
Receiver Firmware: iFlight 2.4GHz RX



DJI Digital Transmitters: SUBS Protocol



Source	ConfigurationID	Start At	Frequency	Unit	Next Run	Next Run
USB VCP	116290		Disabled	Auto/0	Disabled	Auto/0
USB VCP1	116290		Disabled	Auto/0	Disabled	Auto/0
USB VCP2	116290		Disabled	Auto/0	Disabled	Auto/0
USB VCP3	116290		Disabled	Auto/0	Disabled	Auto/0
USB VCP4	116290		Disabled	Auto/0	Disabled	Auto/0

Receiver

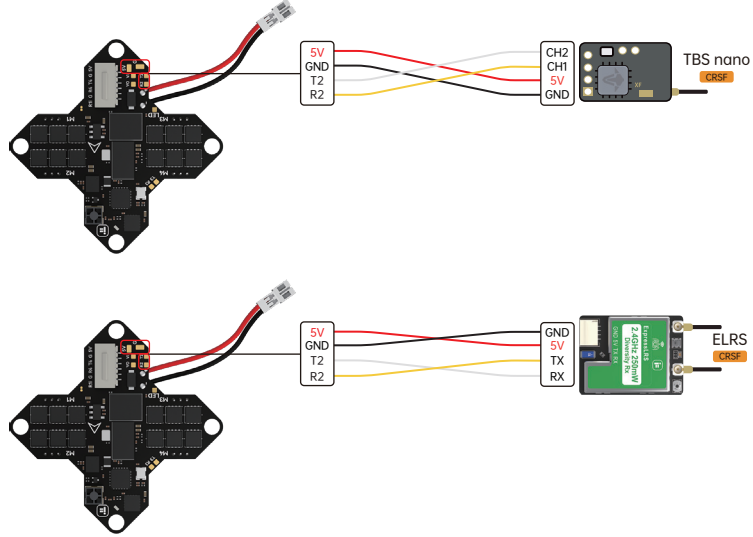
Serial (via UART) Receiver Mode


• 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

- To enable the air unit OSD under Betaflight 4.4 version, you need to select VTX (MSP+Displayport) in the peripheral port where the air unit signal is connected to the port interface.
- Please check your protocols, otherwise your DJI Radio won't input signals!
DJI Goggle protocol and Betaflight protocol has to match!
For lower signallatency 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

Others Receivers(TBS/ELRS): CRSF Protocol



Accelerator	Configuration	MP	Serial I/O	Memory Output	Sensor Input	Temperature
USB VCP	 115200	<input type="checkbox"/>	Disabled	AUTO	Disabled	AUTO
UART1	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled	AUTO
UART2	115200	<input checked="" type="checkbox"/>	Disabled	AUTO	Disabled	AUTO
UART3	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled	AUTO
UART4	115200	<input type="checkbox"/>	Disabled	AUTO	Disabled	AUTO

Receiver

Serial (via UART)

Serial 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

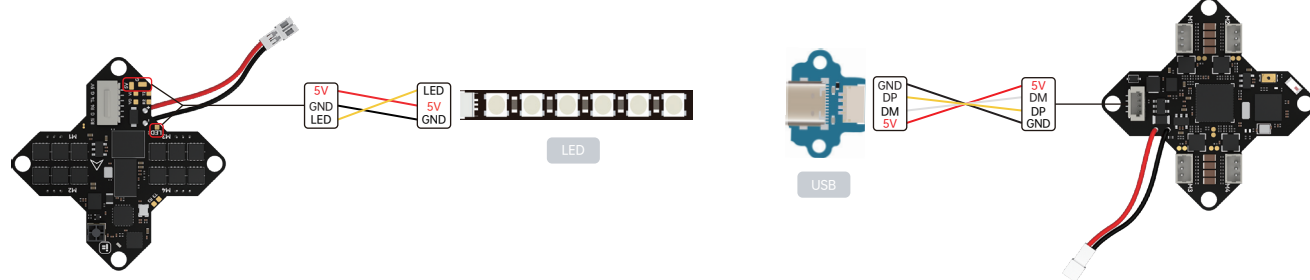
Serial Receiver Provider

Telemetry

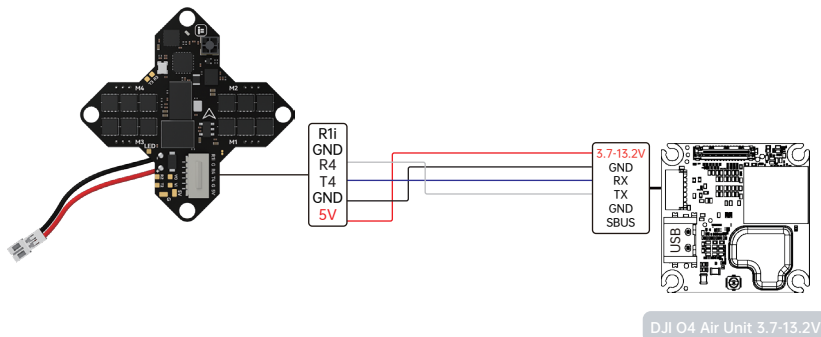
TELEMETRY











Telemetry output

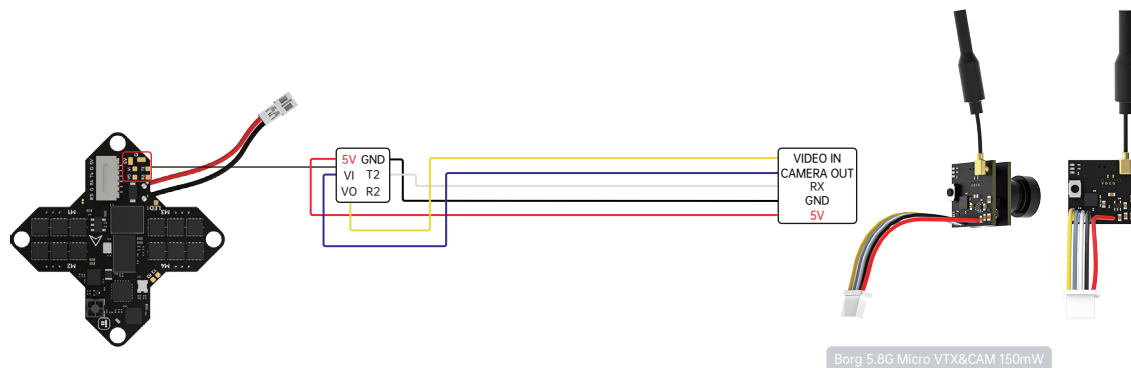
LED/USB Adapter









































VTX/CAM



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 ▾	<div> VTX (MSP + D) ▾ AUTO ▾ <div> Disabling Benewake LIDAR Blackbox logging Camera (RunCam Protocol) OSD (FrSky Protocol) VTX (IRC Trame) VTX (MSP + Displayport) VTX (TBS SmartAudio) </div> </div>



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 	VTX (IRC Tran 
UART3	 115200		Disabled  AUTO 	Disabled  AUTO 	Disabled  
UART4	 115200		Disabled  AUTO 	Disabled  AUTO 	VTX (IRC Tramp) 

Dimensions/Mounting pattern

