

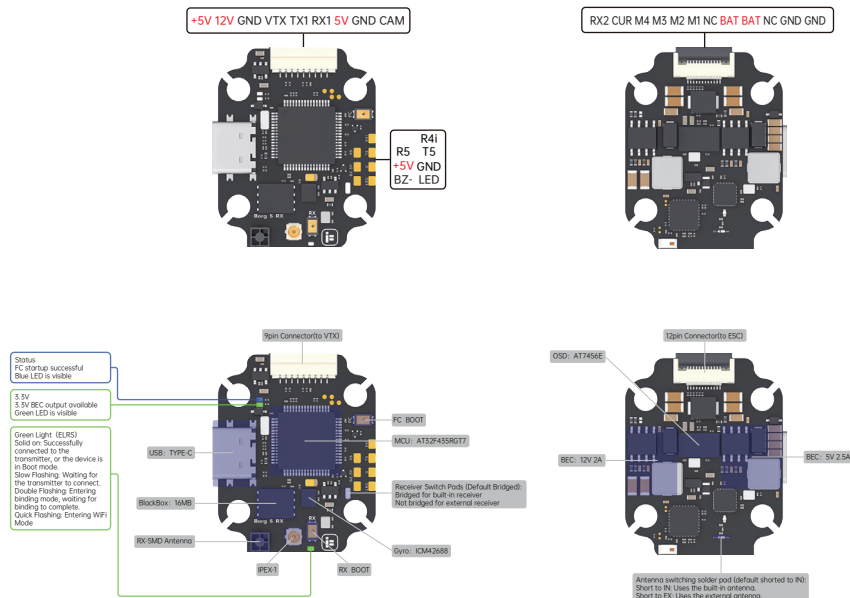
iFlight Bora 5S RX EC Wiring diagram

Parameters:

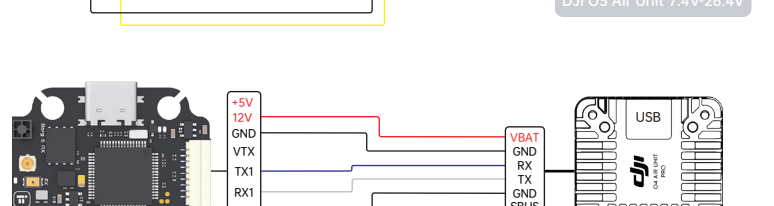
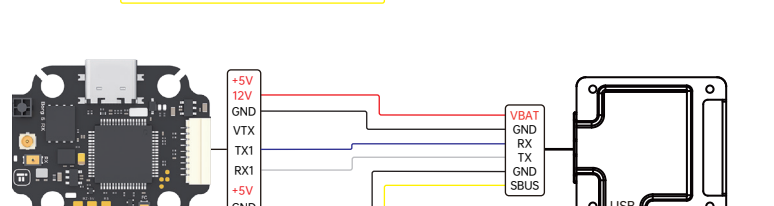
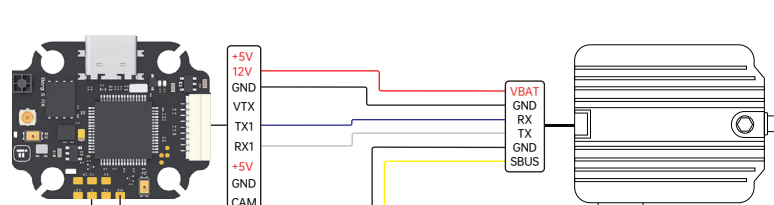
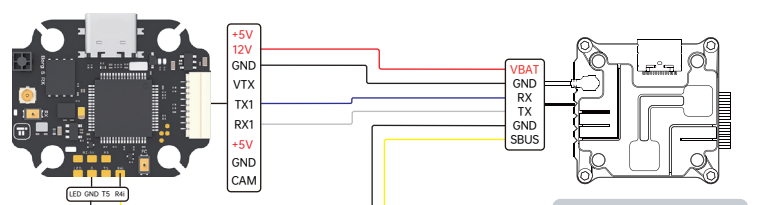
MCU: AT32F415R071
Gyro: ICM42688
Boro: No
OSD: AT7456E
I2BEC: 5V 2.5A
I2BEC: 12V 2A
Blockbox: 16MB
UART: 4*UART(UART1, UART2, UART4, UART5)
UART1 for VTx HD/Analog
UART2 for ESC Telemetry
UART4 for Receiver
UART5 for GPS
4*DSHdPWM outputs
1xAx50112pin connector for ESC (RX2/RX1M4M5/M2/M1NC/BAT/BATNC/GND/GND)
1xS40119pin connector for VTx HD/Analog (SV1/VTX/GND/VTX1/VTX2/SV1/GND/CAM)
WS2812 ledstrip: Yes
Beeper: Yes
Dimensions: 34*28.5mm
Mount pattern: 20*20mm*4
Weight: 6.8g

Firmware:

Betaflight: IFLIGHT_BORG_F435



DJI Digital Transmitters

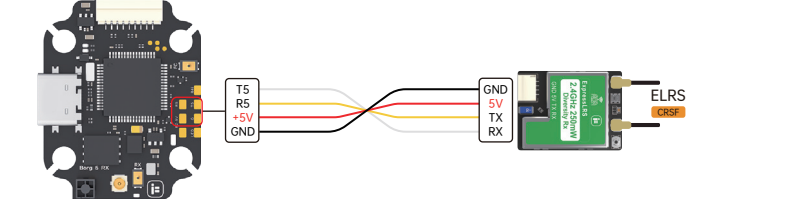
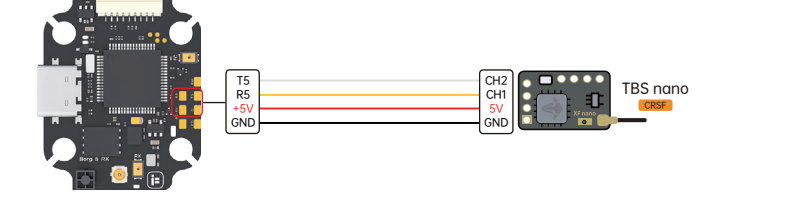
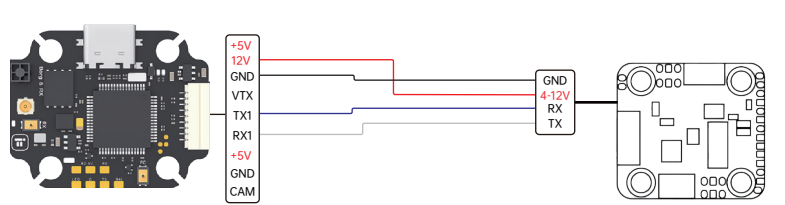
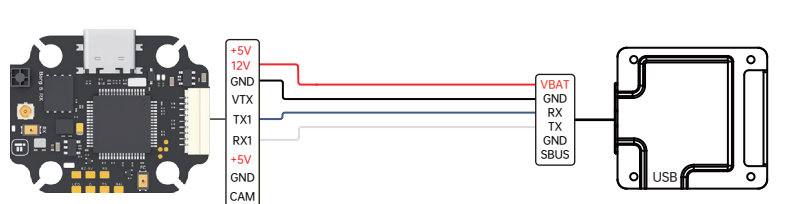



























Identifier	Configuration/MSF	Serial I/O	Memory Output	Serial Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> 15280	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> AUTO	<input checked="" type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Disabled
UART1	<input checked="" type="checkbox"/> 15280	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> AUTO	<input checked="" type="checkbox"/> Disabled	VTX, MPX, I2C, AUTO
UART2	<input checked="" type="checkbox"/> 15280	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> AUTO	<input checked="" type="checkbox"/> Disabled	Serial, LEADER, Backup, Joystick
UART3	<input checked="" type="checkbox"/> 15280	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> AUTO	<input checked="" type="checkbox"/> Disabled	Camera, Video Protocol, OSD (Full Profile)
UART5	<input checked="" type="checkbox"/> 15280	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> AUTO	<input checked="" type="checkbox"/> Disabled	VTX, I2C, I2C Expansion
UART6	<input checked="" type="checkbox"/> 15280	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> AUTO	<input checked="" type="checkbox"/> Disabled	Serial, I2C, I2C Expansion
UART7	<input checked="" type="checkbox"/> 15280	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> AUTO	<input checked="" type="checkbox"/> Disabled	Serial, I2C, AUTO

- 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.
- note: DJI FPV Remote Controller2 is for DJI O3 Air Unit
DJI FPV Remote Controller is for DJI Air Unit and Vista
- 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. Google protocol set to NORMAL

Any other Receiver

Firmware Target: IELIGHT BORG F435



	Configurations	Serial Rx	Memory Output	Sensor Input	Peripherals
USC_VCP	 153296	 Disabled	 AUTO	 Disabled	 AUTO
UART1	153296	Disabled	AUTO	Disabled	AUTO VTX BMSF + AUTO Disabled Baudrate 115200 Baudrate Invert Cable Pin Polarity (GND or VCC Protocol)
UART3	153296	Disabled	AUTO	Disabled	AUTO
UART4	 153296	 Disabled	 AUTO	 Disabled	 AUTO
UART5	 153296	 Disabled	 AUTO	 Disabled	 AUTO
UART6	153296	Disabled	AUTO	Disabled	AUTO
UART7	 153296	 Disabled	 AUTO	 Disabled	 AUTO
UART8	 153296	 Disabled	 AUTO	 Disabled	 AUTO

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:

CRSF

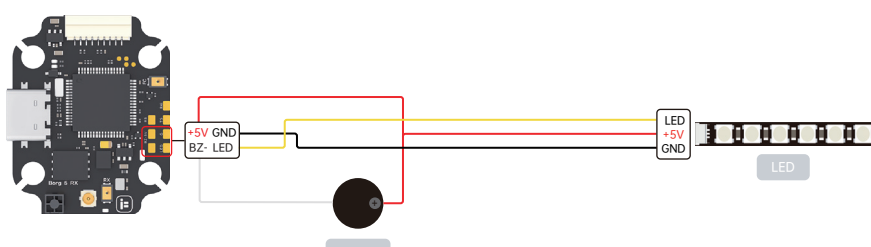
Serial Receiver Provider

Telemetry

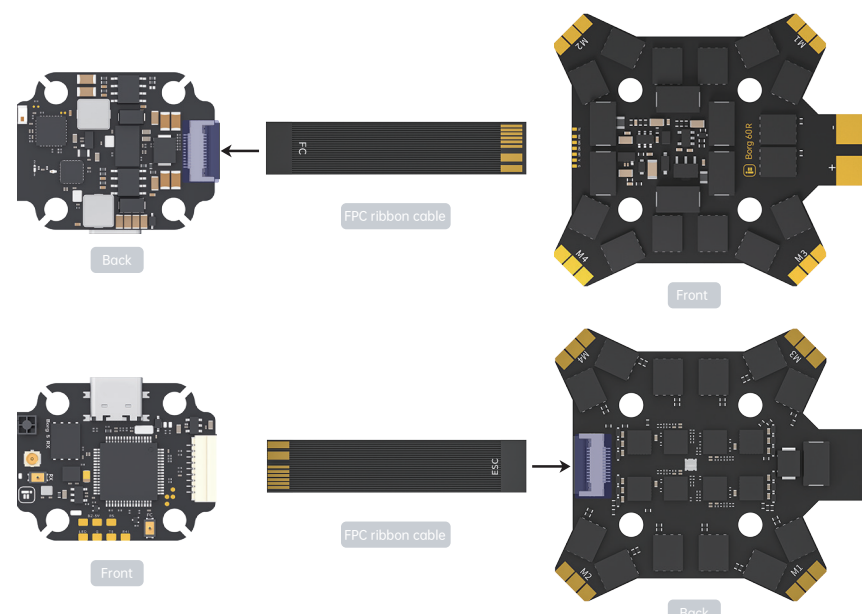
TELEMETRY

Telemetry output

LED/BUZZER

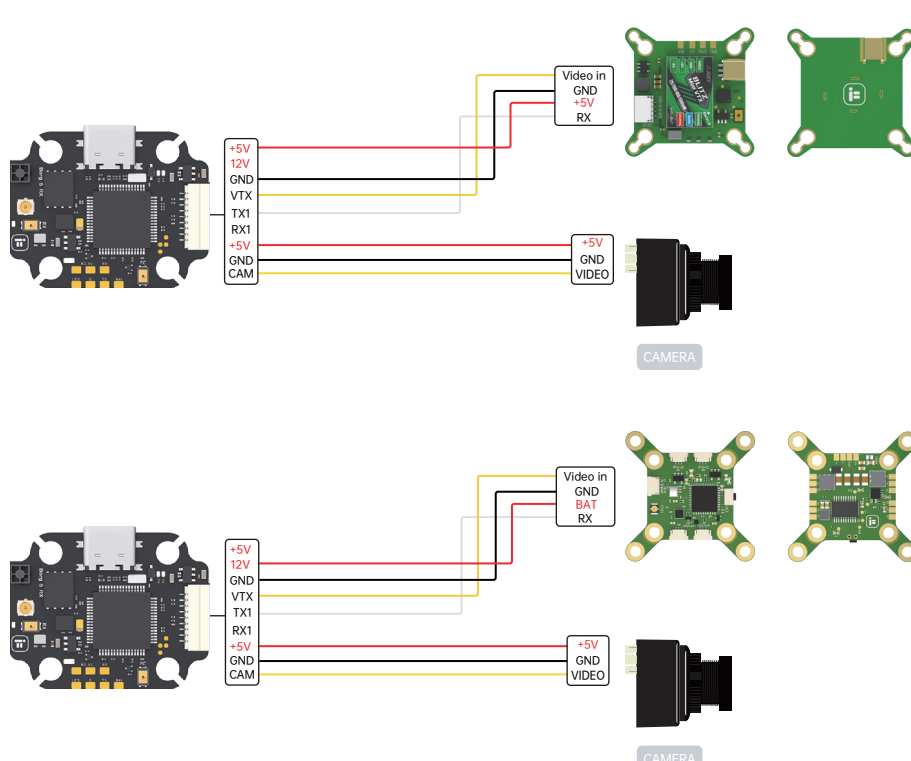












ESC



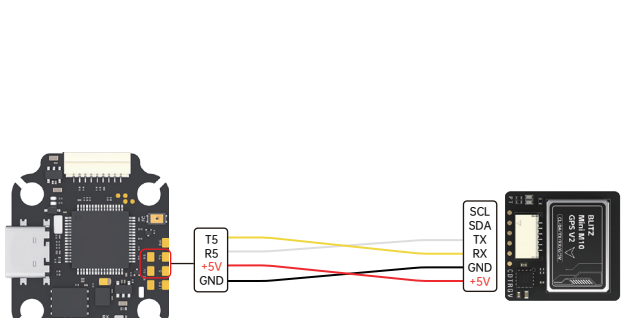
Note: If using an ESC from another brand, please ensure the wiring is connected correctly.

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 Benevake LIDAR Blackbox logging Camera (RunCam Protocol) VSD (E2Kye Protocol)
UART3	115200		Disabled	AUTO	Disabled	AUTO	VIX (RC-Trap)
UART4	 115200		Disabled	AUTO	Disabled	AUTO	PTK (PDK) (E2Kye Protocol) VTX (TBS SmartAudio)
UART6	 115200		Disabled	AUTO	Disabled	AUTO	Disabled AUTO
UART7	 115200		Disabled	AUTO	Disabled	AUTO	Disabled AUTO

CDC



Interface	Configuration/MOP	Serial Pin	Streaming Output	Sensor Input	Responsible
GPS VCP	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART2	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	GPS / 115200	Disabled / AUTO
UART6	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART7	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO

Discussions/Management options

