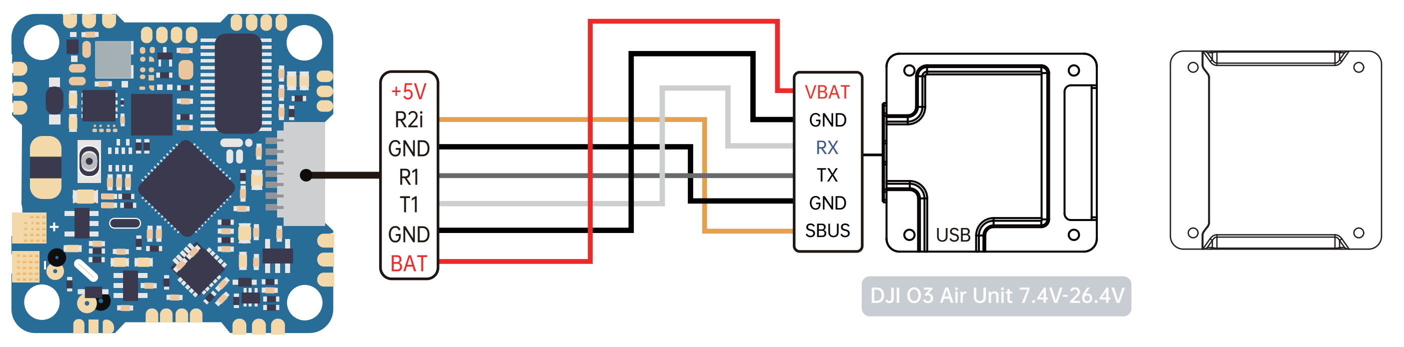
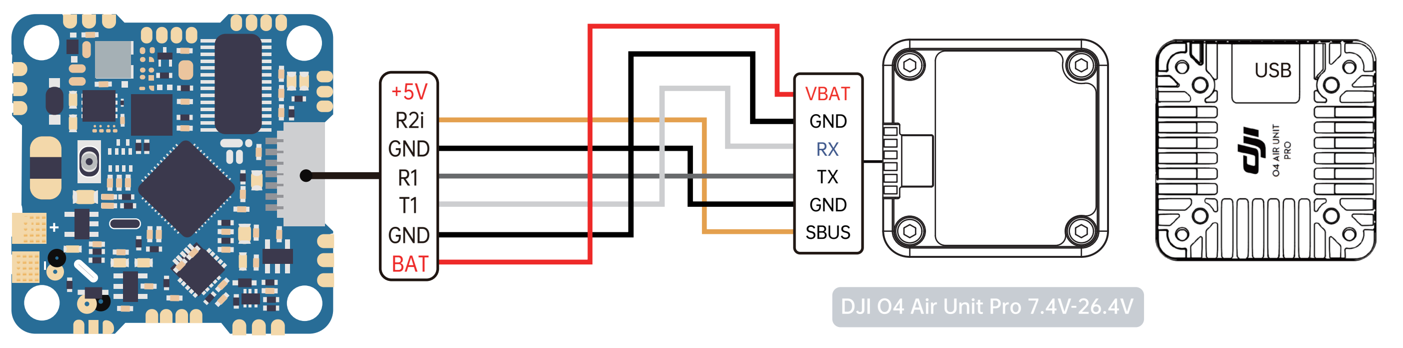
Whoop AIO F411 V1.1 Wiring Diagram

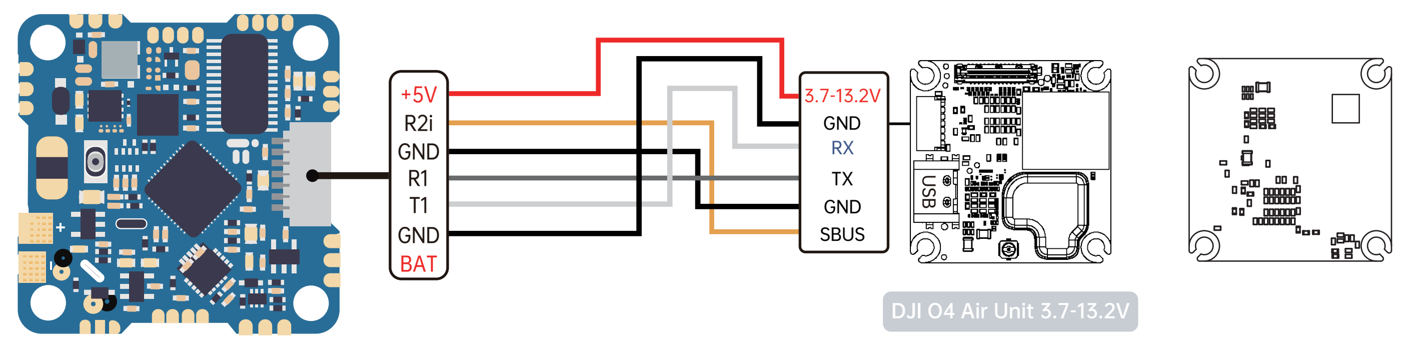
DJI Digital Transmiters

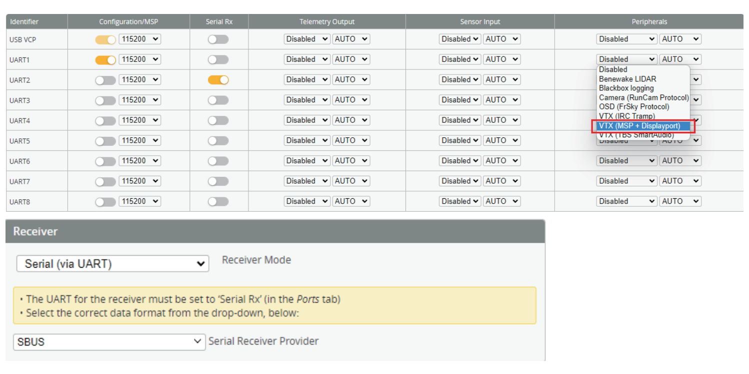
Firmware Target: IFLIGHT_F411_PRO（IFRC)

FC plug&play port and setup compatible to Caddx Vista









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	
UART3	○ 115200	○	Disabled AUTO	Disabled AUTO	
UART4	○ 115200	○	Disabled AUTO	Disabled AUTO	
UART5	○ 115200	○	Disabled AUTO	Disabled AUTO	
UART6	○ 115200	○	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART7	○ 115200	○	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART8	○ 115200	○	Disabled AUTO	Disabled AUTO	Disabled AUTO

Disabled
Benewake LIDAR
Blackbox logging
Camera (RunCam Protocol)
OSD (FrSky Protocol)
VTX (IRC Tramp)
VTX (MSP + Displayport)
VTX (TBS SmartAudio)

Receiver

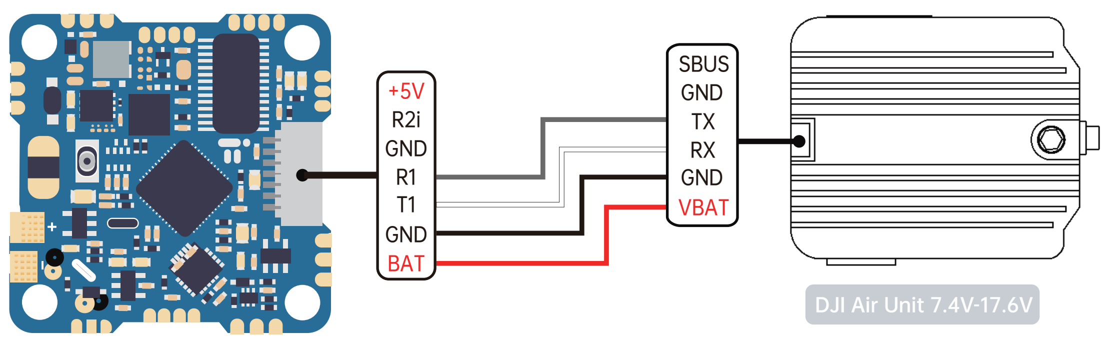
Serial (via UART) — Receiver Mode

- 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:

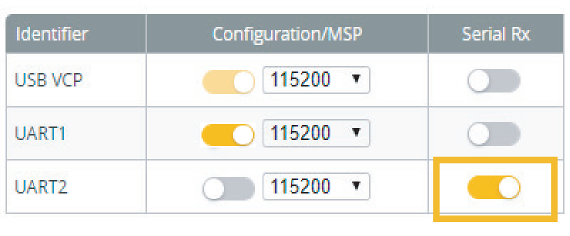
SBUS — Serial Receiver Provider

- 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 Betafllght 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
- For DJI O3 Air Unit,In to the Betaflight Configurator Cli,
  Set osd device to MSP :"set osd_displayport_device = MSP"
  Specify the serial port of msp_displayport as 0(the number in this place should be the serial port number minus 1):
  "set displayport_msp_serial = 0"
  then type "save" and exit

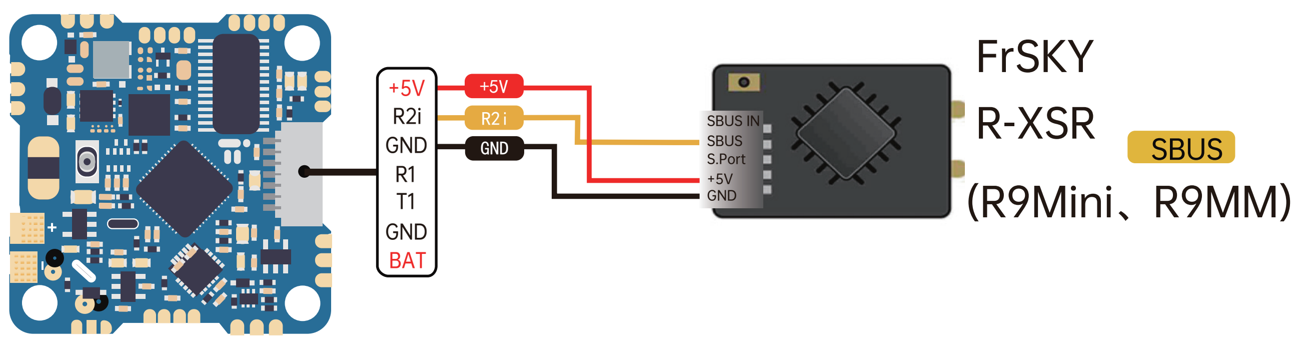
Others Receivers

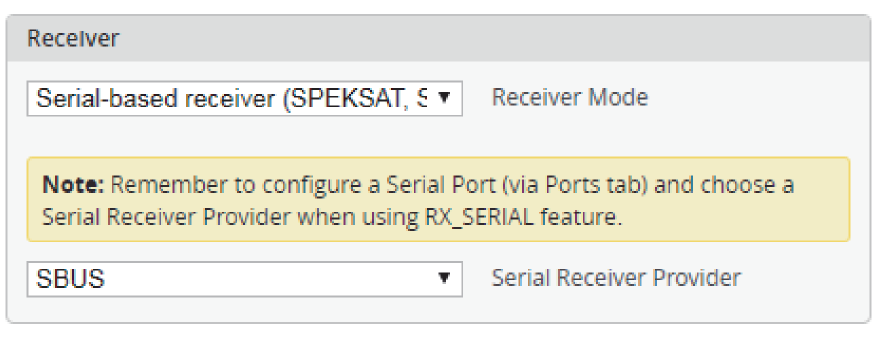


To free UART2 to use a 3rd party receiver, do NOT connect the DJI Air Unit SBUS and GND (as in the picture).
Please follow further instructions below.



Identifier	Configuration/MSP	Serial Rx
USB VCP	● 115200	○
UART1	● 115200	○
UART2	○ 115200	●



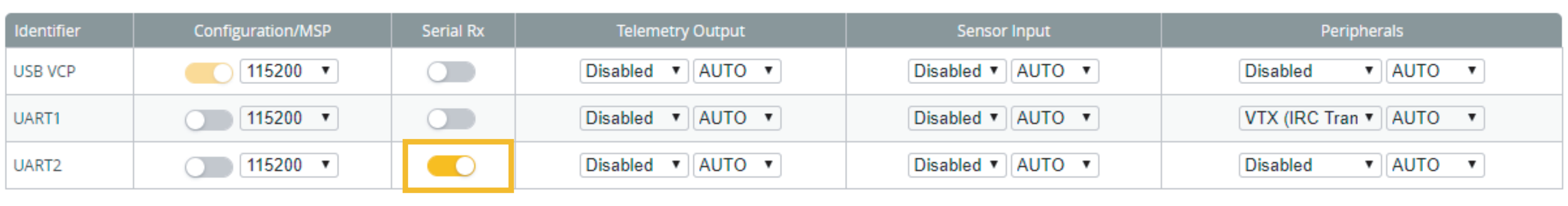


Receiver

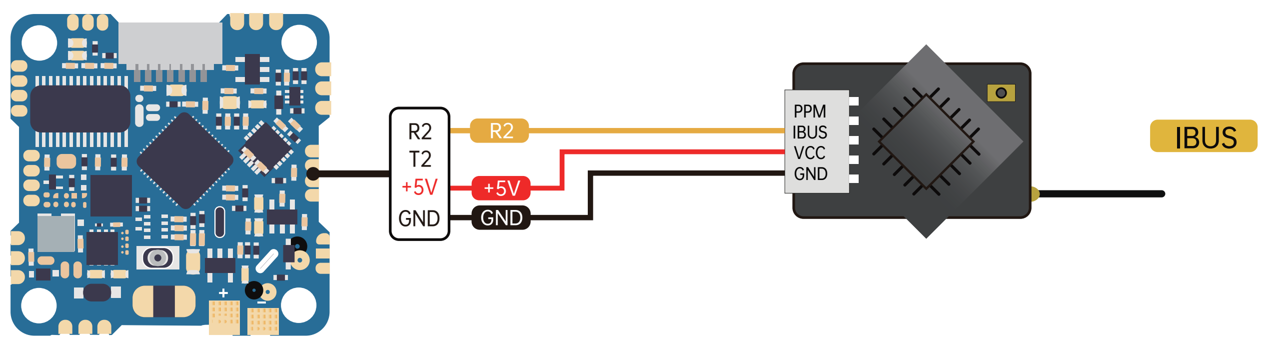
Serial-based receiver (SPEKSAT, S — Receiver Mode

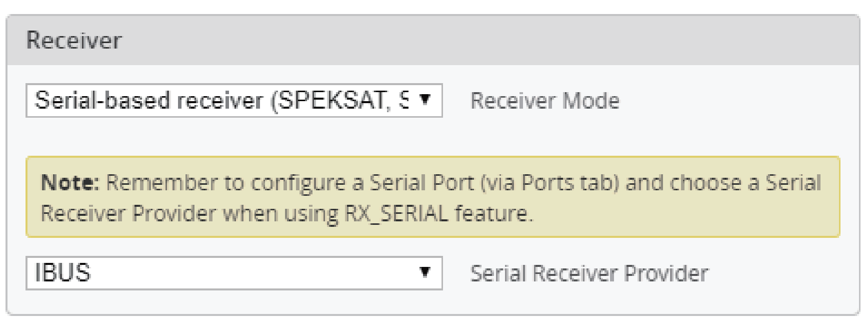
Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.

SBUS — Serial Receiver Provider



Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	● 115200	○	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	○ 115200	○	Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO
UART2	○ 115200	●	Disabled AUTO	Disabled AUTO	Disabled AUTO



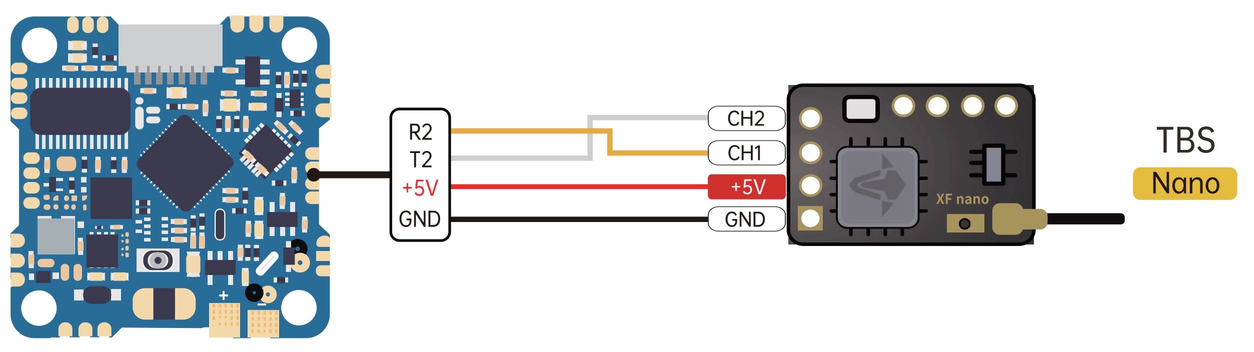


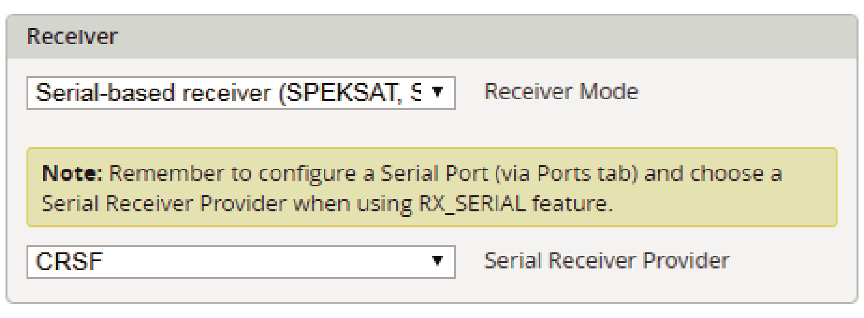
Receiver

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.

IBUS — Serial Receiver Provider



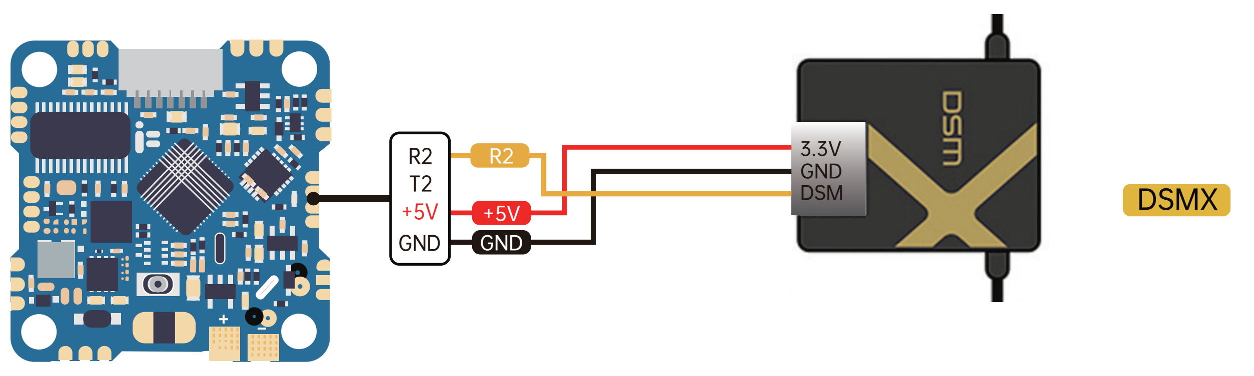


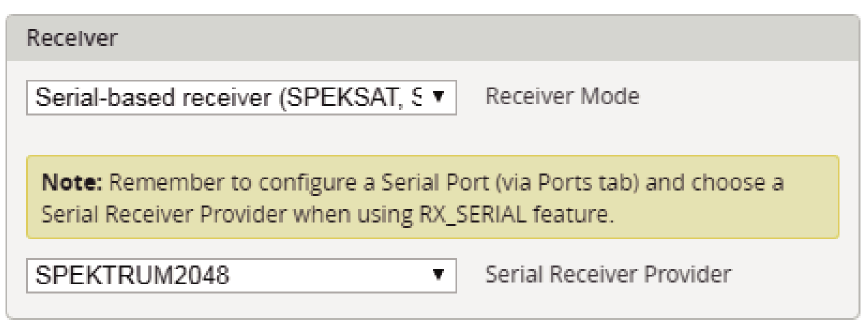
Receiver

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.

CRSF — Serial Receiver Provider





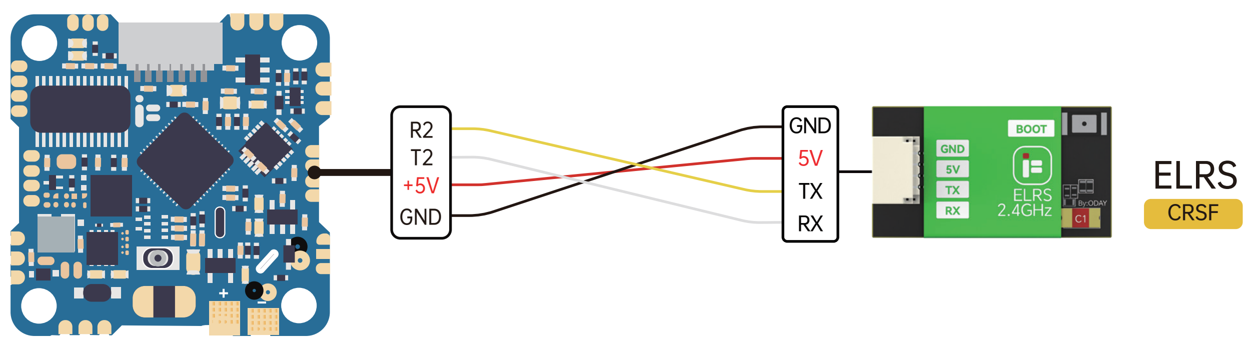
Receiver

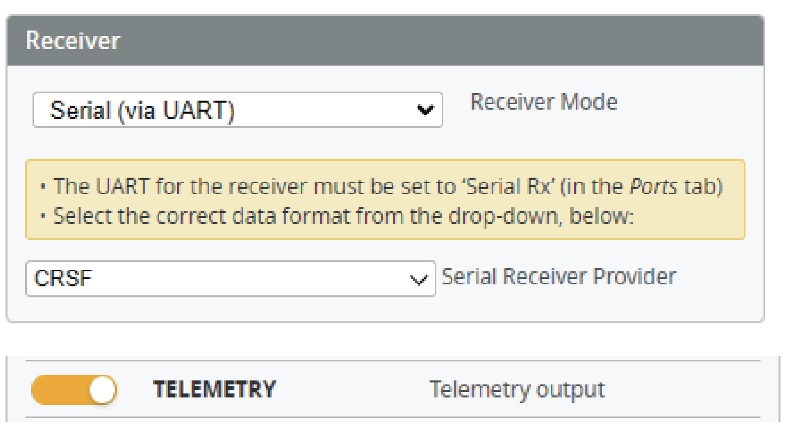
Serial-based receiver (SPEKSAT, S — Receiver Mode

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

SPEKTRUM2048 — Serial Receiver Provider

ELRS Connection Method 1





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:

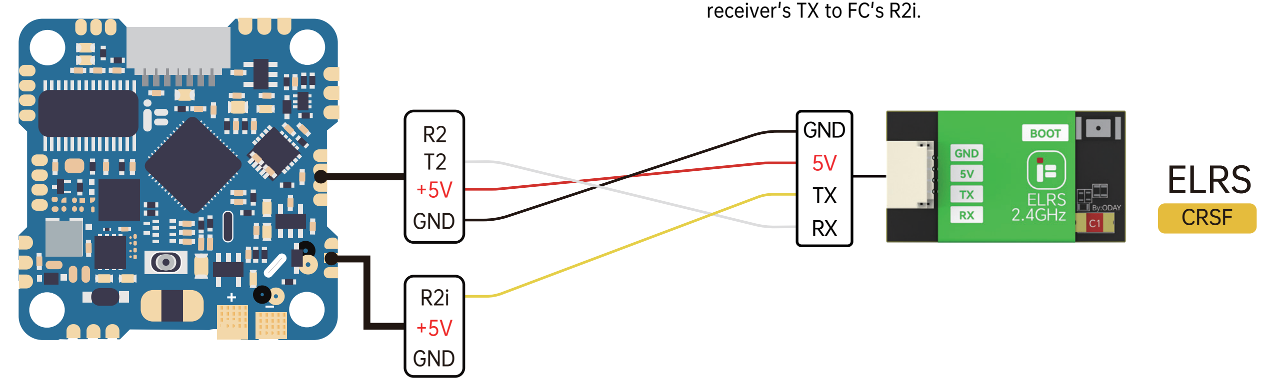
CRSF — Serial Receiver Provider

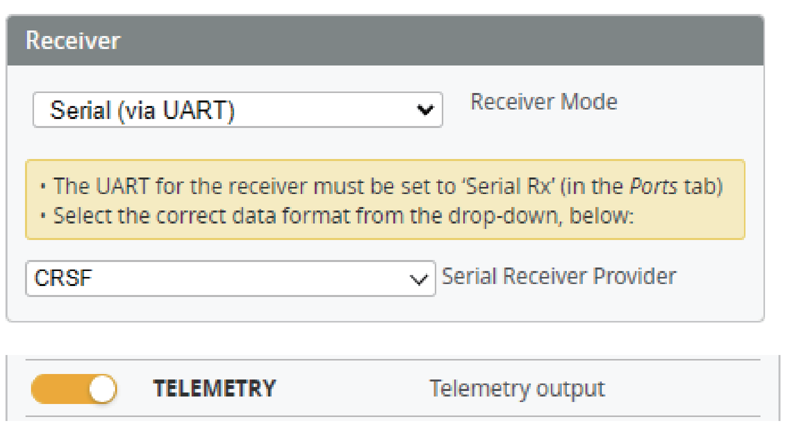
● TELEMETRY — Telemetry output

Identificador	Configuració/MSP	Rx sèrie	Sortida de Telemetria	Entrada de Sensor	Perifèrics
UART2	○ 115200	●	Deshabilitat AUTO	Deshabilitat AUTO	Deshabilitat AUTO

ELRS Connection Method 2

- Notice:
  Due to component differences or circuit design, if you are using an iFlight brand ELRS receiver, you can follow the Method 1 to connect.
  If you are using a ELRS receiver from other brand, it may happen that the receiver light stays on after powered up, in this case please connect according to Method 2, and you need to refresh the receiver firmware, then select RCVR_INVERT_TX and connect the receiver's TX to FC's R2i.





Receiver

Serial (via UART) — Receiver Mode

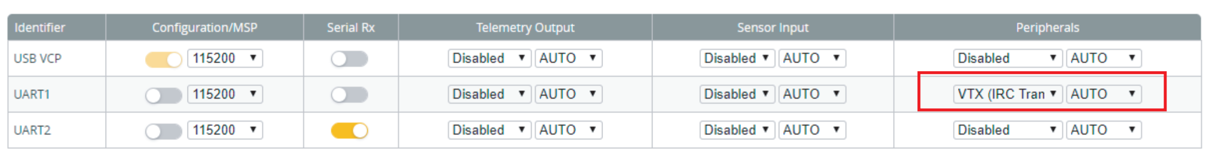
- The UART for the receiver must be set to 'Serial Rx' (in the *Ports* tab)
- Select the correct data format from the drop-down, below:

CRSF — Serial Receiver Provider

● TELEMETRY — Telemetry output

Identificador	Configuració/MSP	Rx sèrie	Sortida de Telemetria	Entrada de Sensor	Perifèrics
UART2	○ 115200	●	Deshabilitat AUTO	Deshabilitat AUTO	Deshabilitat AUTO

Analog



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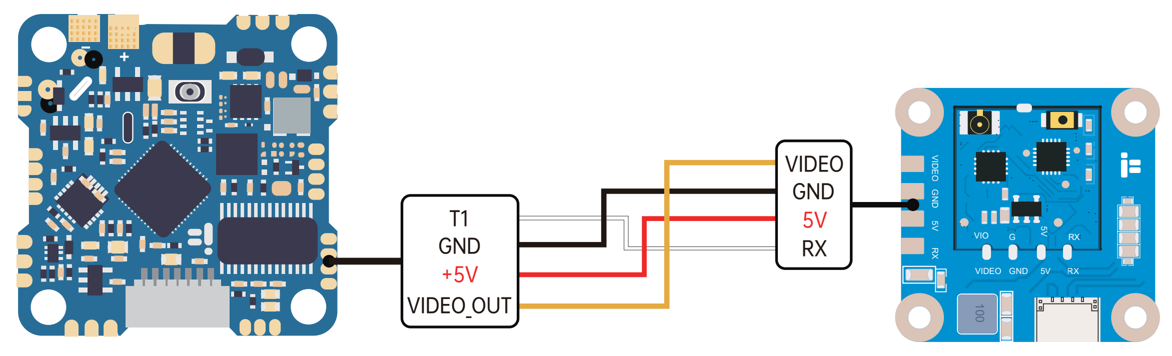
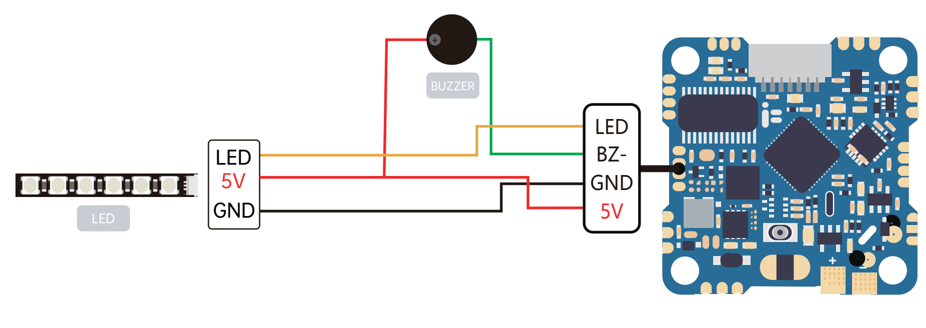
UART1	○ 115200	○	Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO
UART2	○ 115200	●	Disabled AUTO	Disabled AUTO	Disabled AUTO



LED/BUZZER



CAM