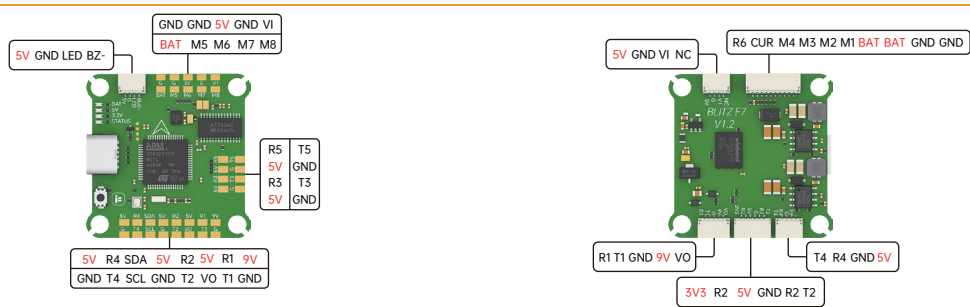


# iFlight BLITZ F7 Wiring Diagram



## DJI Digital Transmitters: SUBS Protocol

**Coddex Vista 7.4V-26.4V:** T2 R2 GND 5V R2 3V3, VO 9V GND T1 R1, VBAT GND RX TX GND SBUS.

**DJI O3 Air Unit 7.4V-26.4V:** T2 R2 GND 5V R2 3V3, VO 9V GND T1 R1, VBAT GND RX TX GND SBUS.

**DJI O4 Air Unit Pro 7.4V-26.4V:** T2 R2 GND 5V R2 3V3, VO 9V GND T1 R1, VBAT GND RX TX GND SBUS.

**DJI O4 Air Unit 3.7-13.2V:** T2 R2 GND 5V R2 3V3, VO 9V GND T1 R1, 3.7-13.2V GND RX TX GND SBUS.

Receiver	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	AUTO	Disabled	Disabled
UART1	115200	Disabled	AUTO	Disabled	VTX (MSP + E+)
UART2	115200	Disabled	AUTO	Disabled	Disabled
UART3	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART4	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART5	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART6	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART7	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART8	115200	Disabled	AUTO	Disabled	Benewake LiDAR

**Receiver Mode:** Serial (via UART), Receiver Mode, Telemetry (CRSF)

- 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 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, Goggle protocol set to NORMAL.

## Others Receivers (TBS/ELRS): CRSF Protocol

**TBS nano:** T2 R2 GND 5V R2 3V3, CH2 CH1 5V GND.

**ELRS:** T2 R2 GND 5V R2 3V3, TX RX 5V GND.

Receiver	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	AUTO	Disabled	Disabled
UART1	115200	Disabled	AUTO	Disabled	VTX (MSP + E+)
UART2	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART3	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART4	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART5	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART6	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART7	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART8	115200	Disabled	AUTO	Disabled	Benewake LiDAR

**Receiver Mode:** Serial (via UART), Receiver Mode, Telemetry (CRSF)

## VTX/CAM

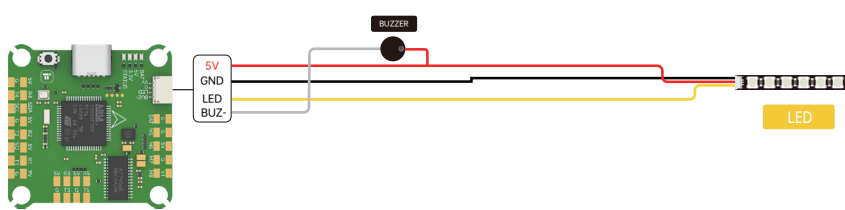
**VTX/CAM:** T2 R2 GND 5V R2 3V3, VO 9V GND T1 R1, VBAT GND RX TX GND SBUS.

Receiver	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	AUTO	Disabled	Disabled
UART1	115200	Disabled	AUTO	Disabled	VTX (MSP + E+)
UART2	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART3	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART4	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART5	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART6	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART7	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART8	115200	Disabled	AUTO	Disabled	Benewake LiDAR

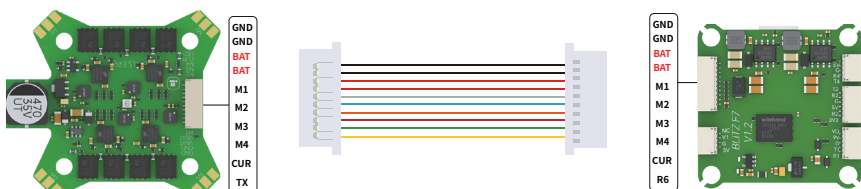
**Receiver Mode:** Serial (via UART), Receiver Mode, Telemetry (CRSF)

**Camera Connections:** VIDEO GND 5V, NC VI GND 5V, VO 9V GND T1 R1, Vbat GND, Video in, Camera out 5V out, GND Camera in.

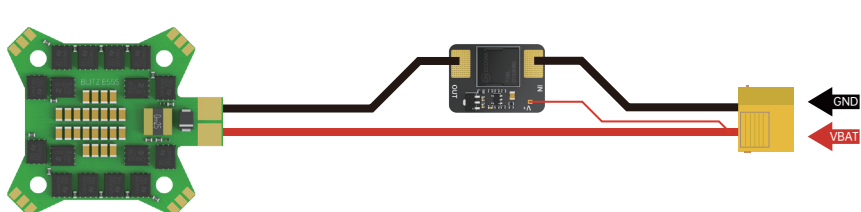
## LED/BUZZER



## ESC



## Anti-Spark filter



## GPS

Receiver	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	AUTO	Disabled	Disabled
UART1	115200	Disabled	AUTO	Disabled	VTX (MSP + E+)
UART2	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART3	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART4	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART5	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART6	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART7	115200	Disabled	AUTO	Disabled	Benewake LiDAR
UART8	115200	Disabled	AUTO	Disabled	Benewake LiDAR

**GPS Configuration:** UBLOX, Protocol, Auto Config, Use Galileo, Set Home Point Once, Auto-detect, Ground Assistance Type.

**GPS Connections:** GND T1 VO T2 GND SCL T4 GND, 9V R1 5V R2 5V SDA R4 5V, SCL SDA TX GND 5V.

## Status indicator

**Status Indicator:** Start FC startup successful (Blue LED), 3V3 & MCU available (Red LED), 5V BEC output available (Green LED), Bat is available (Orange LED).

Note: Each LED indicates the status of your flight controller.