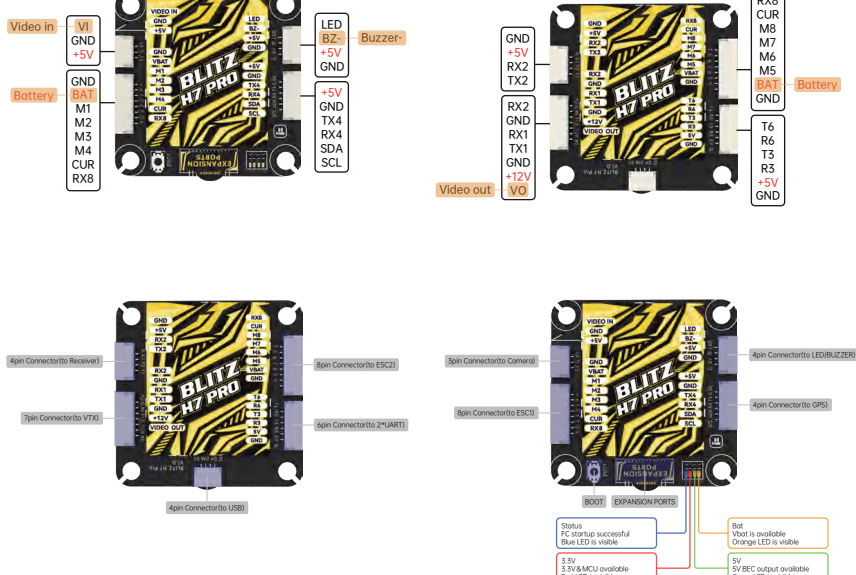


iFlight BLITZ H7 Pro Instructions

MCU: STM32H743

Board: RM24688
 Board: DPS330
 OS: ATtiny45
 Input Voltage: 10.8V-50.0V (45125 Lipo)
 1)ESC: Output 2V to continuous output current, 3A peak current (10 seconds)
 2)ESC: Output 2V to continuous output current, 3A peak current (10 seconds)
 BoardBox: SD CARD
 Uart: *UART1UART1, UART2, UART3, UART4, UART5, UART6, UART7
 UART1 to VTX HD/Analog
 UART2 for Receiver
 UART4 for GPS
 UART5 for ESC Telemetry
 8-Dshot/PWM outputs
 2xIO: for GPS Module
 1xGH25 5pin connector for Analog camera (Video in/GND)+5V
 1xGH25 4pin connector for Any Receiver (GND)+5V(BATT)+2x
 1xGH25 4pin connector for LED&Beeper (LED/BZ)+5V(GND)
 1xGH25 4pin connector for GPS&Ant - +5V(GND)+TX(RX&DATA)+GND
 1xGH25 7pin connector for HD VTX Analog VTX (RX2/GND)+TX(RX)+GND+12V(Video out)
 1xGH25 6pin connector for UART3&UART6 (TX&RX)+TX(RX)+5V(GND)
 1xGH25 6pin connector for UART2 (GND)+BATT(MAIN)+BATT(RX)
 1xHL25 6pin connector for ESC2 (GND)+BATT(MAIN)+BATT(RX)+5V
 4x4002 LEDs for FC STATE (3.3V Red) (1 STATE Blue) (5V Green) (BATT Orange)
 SmartAudio&RCamp VTX protocol supported
 WS2812&eSdp: Yes
 Beeper: Yes
 Dimensions: 42x42x1.3mm
 Mounting hole: 55x55mmx4
 Weight: 202g

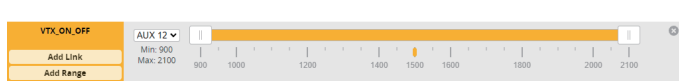
Firmware target:
 Benetton: FLIGHTUITZ47PRO
 Ardulip: BitZ47SPro



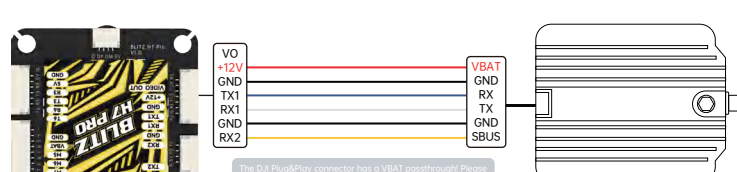
Notice




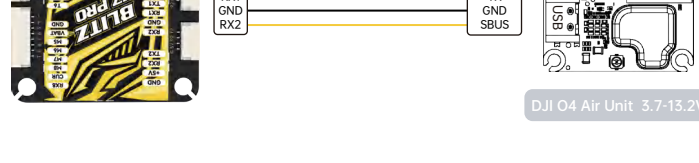
- 12V is a controller output port. When the DJI Air Unit or any VTX is connected to 12V, ensure that VTX_ON_OFF is always enable in Betaflight (place the AUX in any idle one), and set the AUX channel corresponding to the remote control switch if you wanna the VTX power to be controllable.



DJI Digital Transmitters







Identifier	Configuration/MSF	Save to	Inventory Output	Sensor Input	Insight/ops
USB VCP	151526		Disabled - AUTO	Disabled - AUTO	Disabled - AUTO
UMRT1	151506		Disabled - AUTO	Disabled - AUTO	VTY MSH - E: AUTO Disabled
UMRT2	 151506		Disabled - AUTO	Disabled - AUTO	Renovate UQMS Blackbox logging
UMRT3	 151526		Disabled - AUTO	Disabled - AUTO	Camera (HuCan Petition) 2020 Play Framework
UMRT4	 151526		Disabled - AUTO	Disabled - AUTO	5.15 kernel upgrade 2020 Play Framework
UMRT5	151526		Disabled - AUTO	Disabled - AUTO	5.15 kernel upgrade 2020 Play Framework
UMRT7	151536		Disabled - AUTO	Disabled - AUTO	Finished

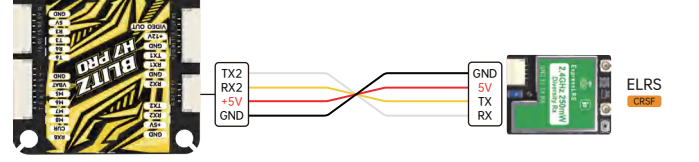


- To enable the air unit OSD under Betaflight 4.4 version, you need to select VTX (MSP+Displayport) in the peripheral part where the air unit signal is connected to the port interface.
- note: DJI FPV Remote Controller2 is for DJI O3 Air Unit
DJI FPV Remote Controller is for DJI Air Unit and Vista
- Please check your protocols, otherwise your DJI Radio won't input signals!
DJI Goggle protocol and Betaflight protocol has to match!
For low latency you use the SBUS BAUD_FAST protocol option on both ends.
- For Betaflight Configurator "Paste" set bus baud fast=on"into your Betaflight Configurator CL1 then hit enter.
Use "save" and hit enter to save the changes.
Default: sbus baud fast=off, Goggle protocol set to NORMAL

Any other Receiver



	Configuration	Serial ID	Inventory Status	Serial Input	Parameters
USB VCP	153600		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART1	 153600		Disabled / AUTO	Disabled / AUTO	VTY (SSH + S + V)
UART2	153600		Disabled / AUTO	Disabled / AUTO	Disabled / Remote L2AR Backlog logging Camera (Can Cam Protocol) VOD (File Protocol)
UART3	 153600		Disabled / AUTO	Disabled / AUTO	Disabled / Remote L2AR
UART4	153600		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART5	153600		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART6	 153600		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART7	153600		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART8	 153600		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO



Receiver

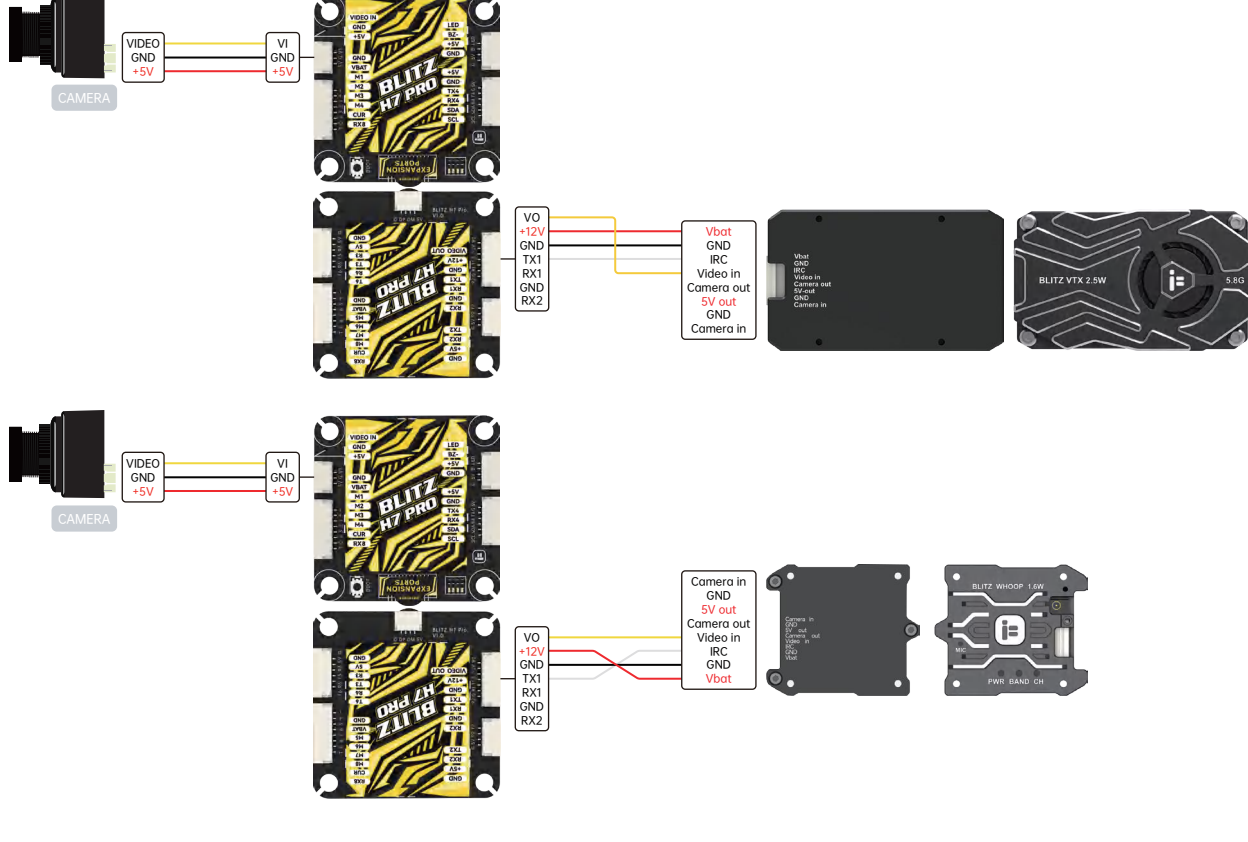
Serial (via UART) Receiver Mode



- 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

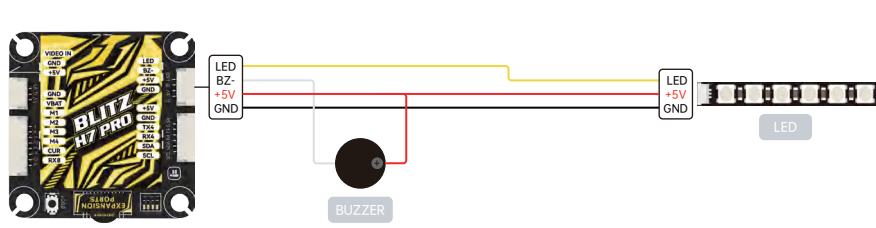
Telemetry

☐ TELEMETRY Telemetry output

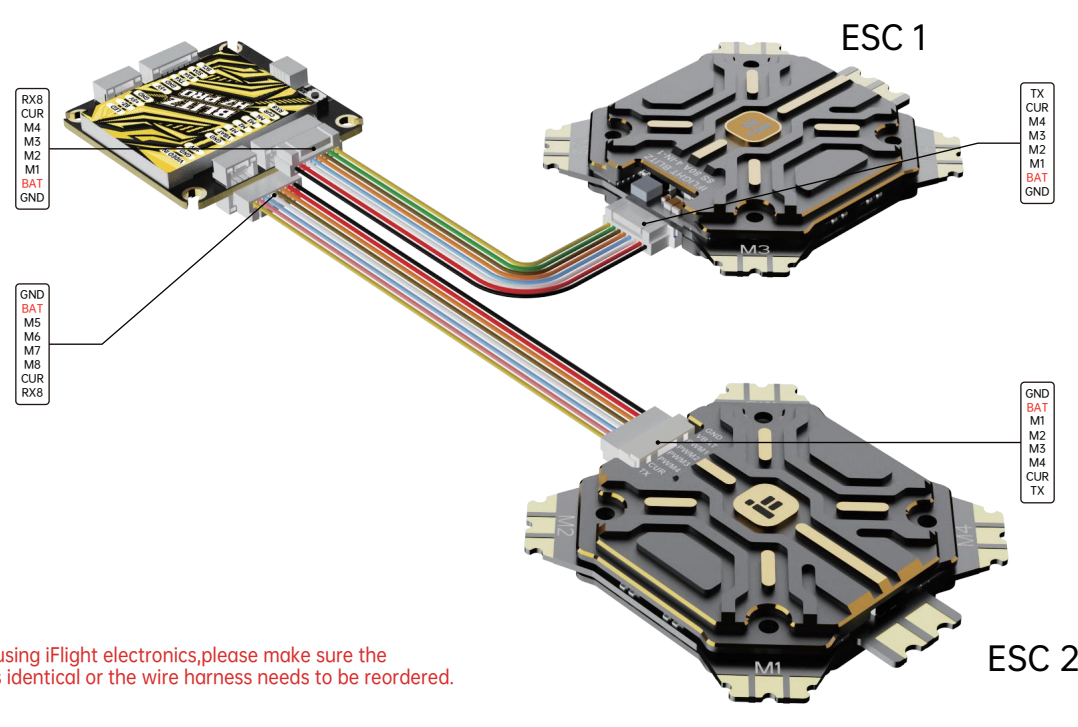


Device	Configuration	MSF	Sensor rx	telemetry output	Sensor input	Peripherals
USB VCP	 115200		 Disabled	 AUTO	 Disabled	 AUTO
UART1	 115200		 Disabled	 AUTO	 Disabled	 AUTO
UART2	115200		Disabled	AUTO	Disabled	AUTO
UART3	115200		Disabled	AUTO	Disabled	AUTO
UART4	115200		Disabled	AUTO	Disabled	AUTO
UART6	115200		Disabled	AUTO	Disabled	AUTO
UART7	115200		Disabled	AUTO	Disabled	AUTO
UART8	115200		Disabled	AUTO	Disabled	AUTO

LED/BUZZER

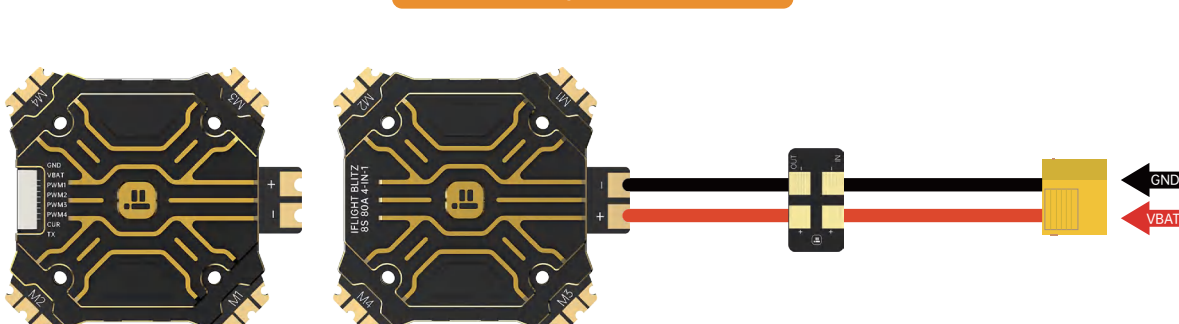


ESC

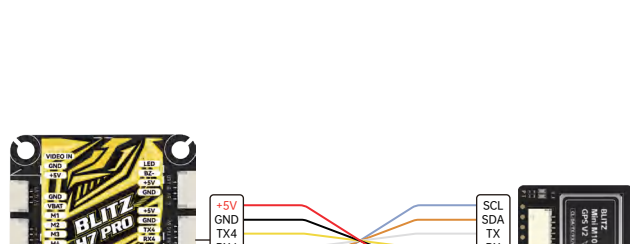


Note: If not using iFlight electronics, please make sure the plug pinout is identical or the wire harness needs to be reordered.

Anti-Spark Filter



GPS



GPS	GLONASS	Galileo	BeiDou	QZSS	SBAS	Navigation Mode	Frequency
GPS	GLONASS	Galileo	BeiDou	QZSS	SBAS	Disabled - AUTO	Disabled - AUTO
GLONASS	GLONASS	Galileo	BeiDou	QZSS	SBAS	Disabled - AUTO	Disabled - AUTO
Galileo	GLONASS	Galileo	BeiDou	QZSS	SBAS	Disabled - AUTO	Disabled - AUTO
BeiDou	GLONASS	Galileo	BeiDou	QZSS	SBAS	Disabled - AUTO	Disabled - AUTO
QZSS	GLONASS	Galileo	BeiDou	QZSS	SBAS	Disabled - AUTO	Disabled - AUTO
SBAS	GLONASS	Galileo	BeiDou	QZSS	SBAS	Disabled - AUTO	Disabled - AUTO

☒ Auto Config
☒ Use Galileo ?
☐ Set Home Point Once ?
 Auto-detect ▼ Ground Assistance Type

2mm

