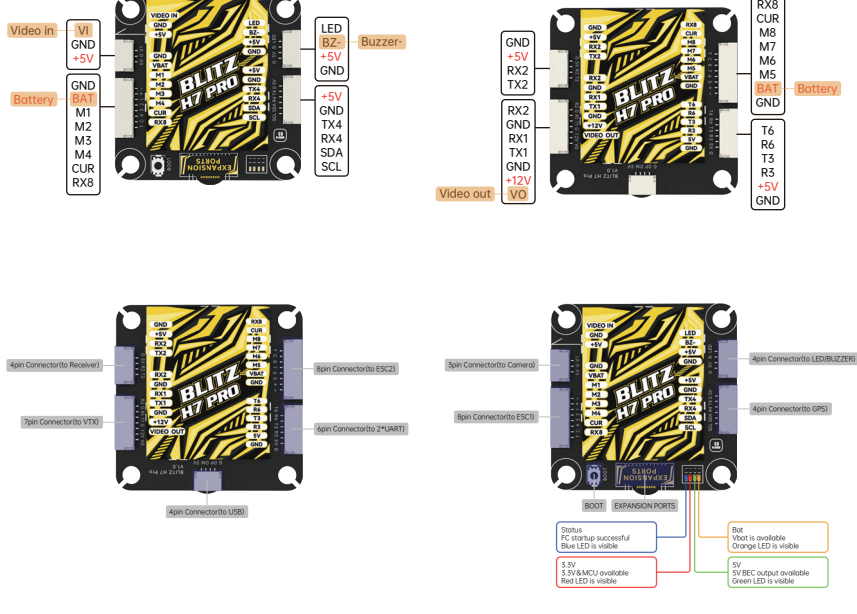


# iFlight BLITZ H7 Pro Instructions

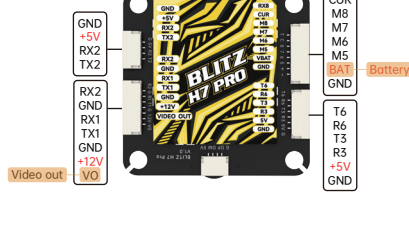
## Parameters:

MCU: STM32F743  
 Gyro: ICM42688  
 Baro: DPS510  
 OSD: AT74EE6  
 Input voltage: 14.8V-50.4V (4S12S LiPo)  
 1)ESC: Output 2V 2A continuous output current, 3A peak current (15 seconds)  
 2)ESC: Output 12V 2A continuous output current, 3A peak current (15 seconds)  
 BlackBox: 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-DahoPWM outputs  
 2+OC for GPS Mags  
 1xGH125 5pin connector for Analog camera (Video in/GND/+5V)  
 1xGH125 4pin connector for Any Receiver (GND/-5V/RX2/TX2)  
 1xGH125 4pin connector for LED&beeper (LED/BZ/+5V/GND)  
 1xGH125 4pin connector for GPS&Mag (+5V/GND/TX/RX&ASD&SCL)  
 1xGH125 4pin connector for HD VTX/Analog VTX (RX2/GND/VTX&RX&V2V/Video out)  
 1xGH125 4pin connector for UART3&UART4 (TX/RX&TX1&RX&SCL/+5V/GND)  
 1xGH125 8pin connector for ESC1 (GND/VBAT/M1/M2/M3/M4/CUR/RX8)  
 1xGH125 8pin connector for ESC2 (GND/VBAT/M5/M6/M7/M8/CUR/RX8)  
 4x4002 LEDs for FC STATE 3.3V (red) / (STATE Blue) / (5V Green) / (BAT Orange)  
 SmartAudio&RCTramp (Vservo control) supported  
 WS2812&6Strip: Yes  
 Beeper: Yes  
 Dimensions: 42\*42\*11.3mm  
 Mounting hole: 35\*5.5mm(4)  
 Weight: 202g

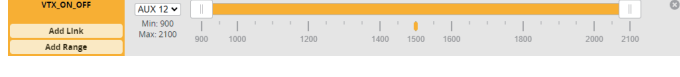
Betaflight: IFLIGHT\_BLITZ\_H7\_PRO  
Ardupilot: BlitzH743Pro



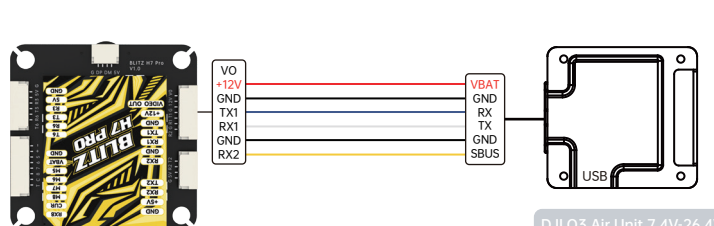
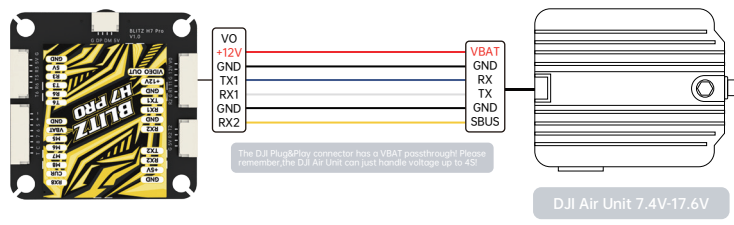
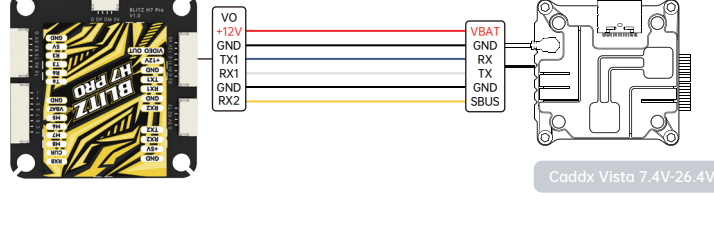
## Notice



- 12V is a controllable output port. When the ESC Air Shift of 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.



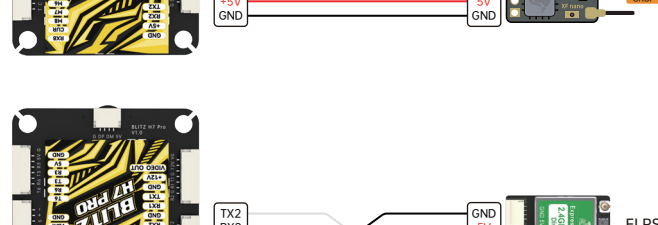
## DSF Digital Transmitters



USB VCP		115200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
UART1		115200		Disabled	AUTO	Disabled	AUTO	VTS (MSP + VTS)	Disabled
UART2		115200		Disabled	AUTO	Disabled	AUTO	Boreas L2AR	Disabled
UART3		115200		Disabled	AUTO	Disabled	AUTO	BlueFlagging	Disabled
UART4		115200		Disabled	AUTO	Disabled	AUTO	CGO (HiCan Protocol)	Disabled
UART5		115200		Disabled	AUTO	Disabled	AUTO	CGO (HiCan Protocol)	Disabled
UART6		115200		Disabled	AUTO	Disabled	AUTO	CGO (HiCan Protocol)	Disabled
UART7		115200		Disabled	AUTO	Disabled	AUTO	CGO (HiCan Protocol)	Disabled
UART8		115200		Disabled	AUTO	Disabled	AUTO	CGO (HiCan Protocol)	Disabled

- 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 Controller 2 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, Goggle protocol set to NORMAL

## Any other Receiver

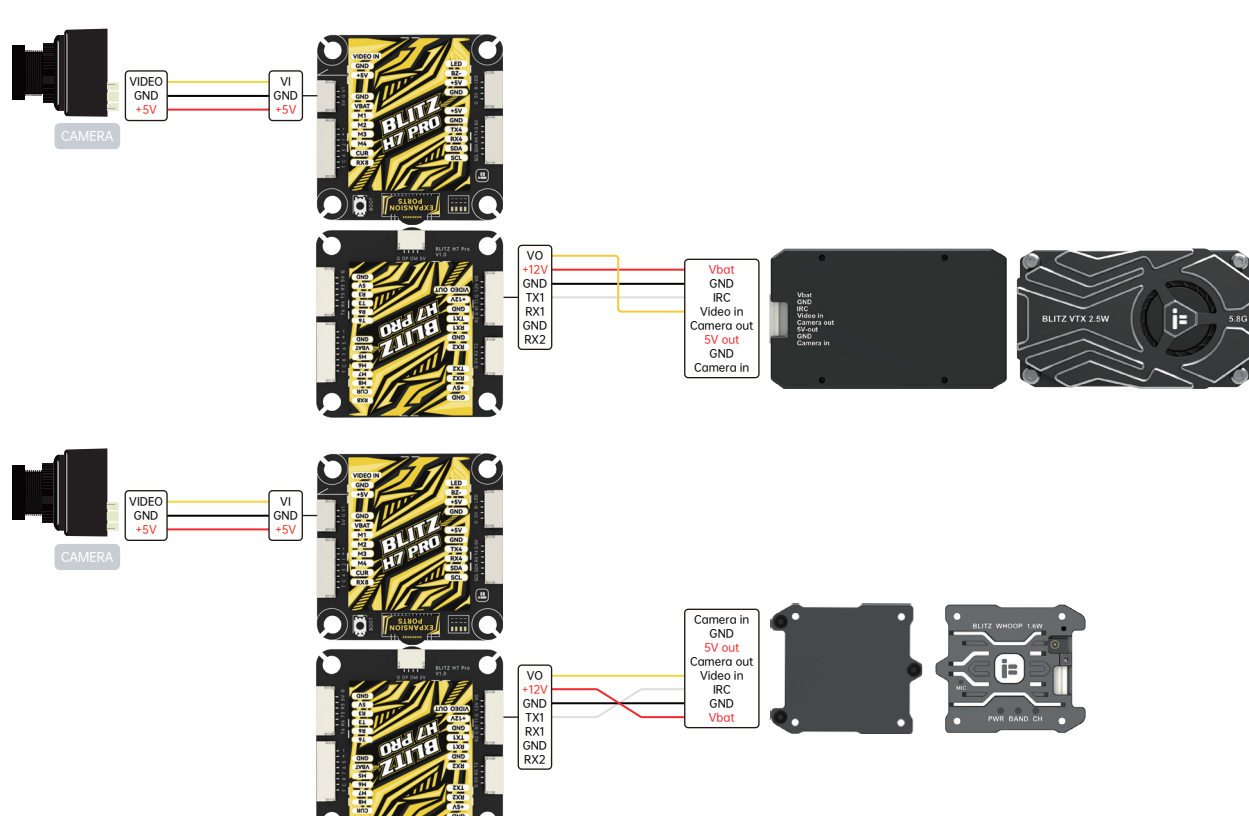




















Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
LIB_VCP	115290		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
LIB2	115290		Disabled / AUTO	Disabled / AUTO	VTX (MSP = D) / AUTO
LIB2_2	 115290		Disabled / AUTO	Disabled / AUTO	Blackbox LIDAR Blackbox logging Camera (Blackbox Protocol) OSD (P-Play Protocol)
LIB2_3	115290		Disabled / AUTO	Disabled / AUTO	<b>VTX (MSP = D) / AUTO</b>
LIB2_4	 115290		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
LIB2_5	115290		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
LIB2_6	115290		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO

Telemetry

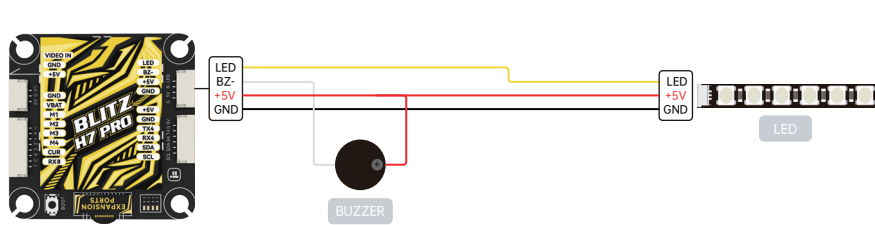
☒ **TELEMETRY** Telemetry output

## VTX/CAM

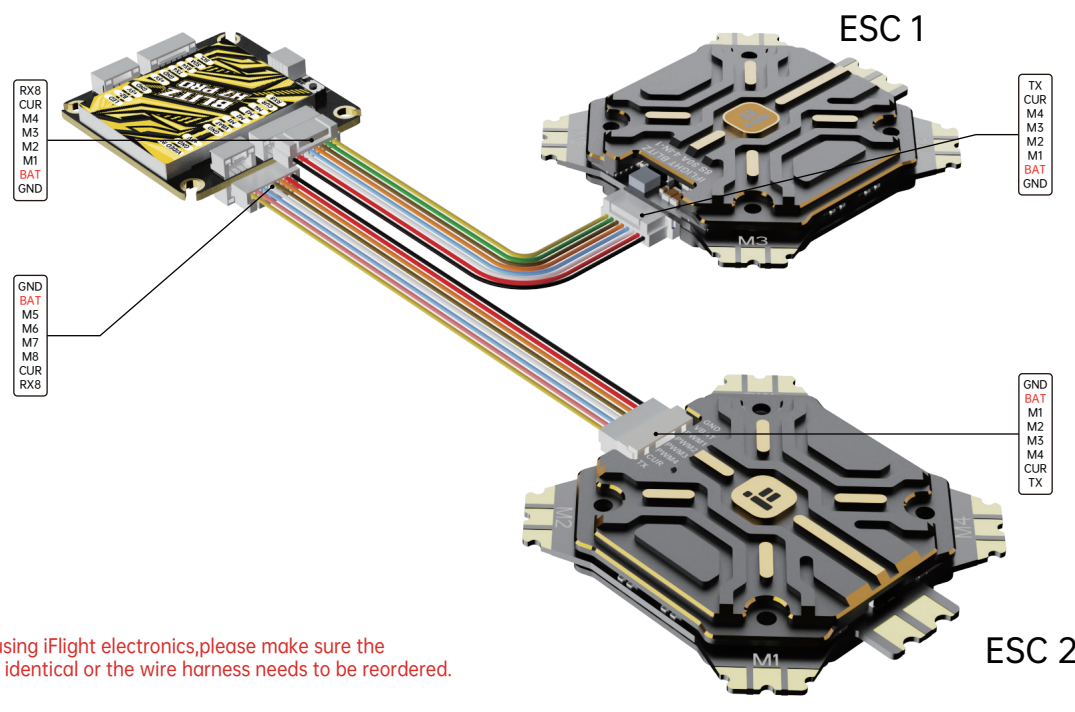


Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	 115200		Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART1	 115200		Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART2	 115200		Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART3	 115200		Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART4	 115200		Disabled   AUTO	Disabled   AUTO	Disabled   AUTO
UART5	 115200		Disabled   AUTO	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

1 FD/BU77FR

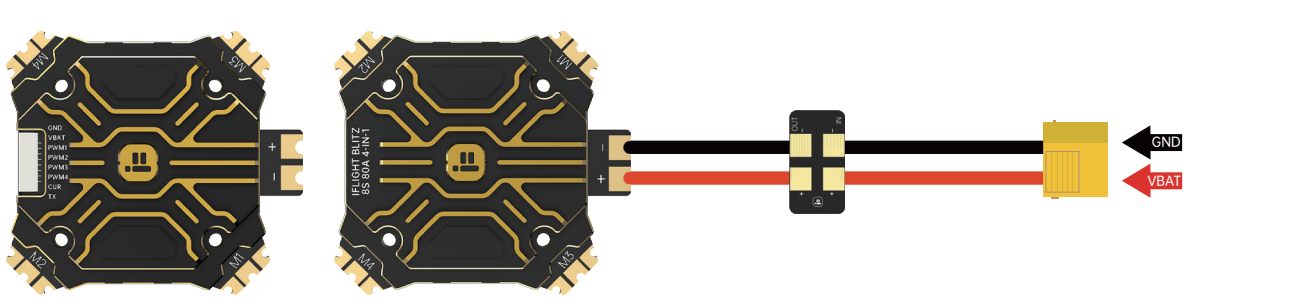


## ESC

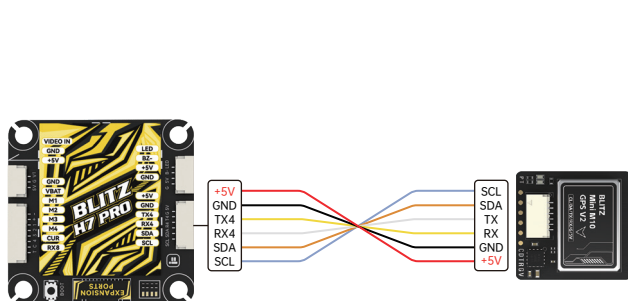


Note: If not using iFlight electronics, please make sure the plug pinout is identical or the wire harness needs to be reordered.

## Anti-Spark Filter



## GPS



Hardware	Config parameter	Serial No.	Inventory Number	Inventory List	Performance
UDB VCP	115200	<input type="checkbox"/>	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UDBM1	115200	<input type="checkbox"/>	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UDBM2	115200	<input type="checkbox"/>	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UDBM3	115200	<input type="checkbox"/>	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UDBM4	115200	<input type="checkbox"/>	Disabled / AUTO	GPS / 115200	Disabled / AUTO
UDBM5	115200	<input type="checkbox"/>	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UDBM7	115200	<input type="checkbox"/>	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
	115584	<input type="checkbox"/>	Disabled / AUTO	Disabled / AUTO	Disabled / AUTO

## Dimensions/Mounting pattern

