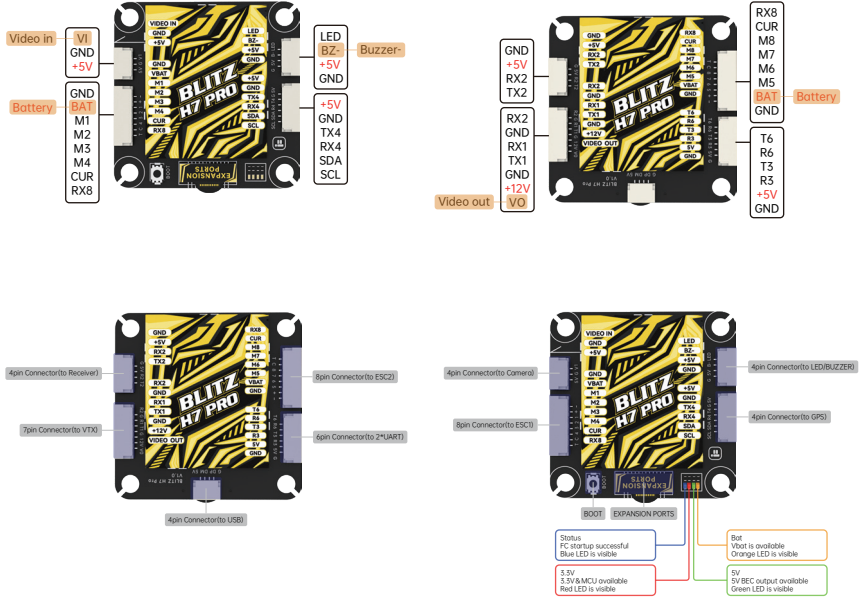


# iFlight BLITZ H7 Pro Instructions

### Parameters.

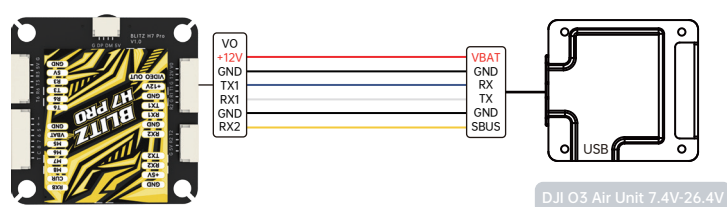
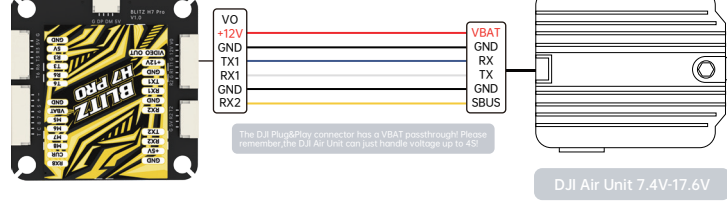
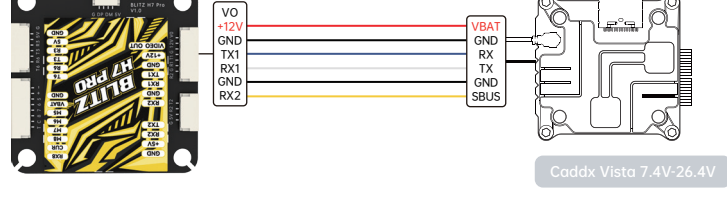
MCU: STM32H745  
 Gyro: ICM42688  
 Bus: I2C DPS310  
 IO: AT77A55E  
 Input voltage: 14.8V-50.4V (45-125 Lipo)  
 ①BEC: Output 5V 5V2a continuous output current, 3A peak current (15 seconds)  
 ②BEC: Output 12V 2A continuous output current, 3A peak current (15 seconds)  
 BlockBox: SDI  
 UART: 7\*UART1(UART1, UART2, UART3, UART4, UART5, UART6, UART7)  
 UART1 for VTX HD-Aalog  
 UART2 for Receiver  
 UART4 for GPS  
 UART5 for ESC Telemetry  
 8\*Dshot/PWM outputs  
 2\*IC2 for GPS Mog  
 TG1H25.25pin connector for Analog camera (Video in/GND+5V)  
 TG1H25.25pin connector for Any Receiver (GND+5V/RX2/TX2)  
 TG1H25.25pin connector for LEDBeeper (LED+5V+GND+5V)  
 TG1H25.25pin connector for GPS&MAG (+5V/GND/UART4/RX4/SDA/SLC)  
 TG1H25.25pin connector for HD VTX/Analog VTX (RX2/GND/VBAT/IMU/GND/12V)  
 TG1H25.25pin connector for UART3&UART6 (TX6/RX6/TX3/RX3+5V/GND)  
 TG1H25.25pin connector for ESC1 (GND/VBAT/IM2/M2/M3/M4/CUR/RX8)  
 TG1H25.25pin connector for ESC2 (GND/VBAT/IM5/M6/M7/M8/CUR/RX8)  
 4\*0402 LEDs for FC State (3.3V Red) / (STATE Blue) / (SV Green) / (BAT Orange)  
 SmartAudio&RC2Temp VTX protocol supported  
 WS2812&2edmp: Yes  
 Beeper: Yes  
 Dimensions: 42\*42\*11.3mm  
 Mounting hole: 55\*55mm/ø4  
 Weight: 20±2g







Firmware target:  
 Bootloader: FLIGHT/BUTZ/H7\_PRO  
 App: BT/BT4



## DJI Digital Transmitters

Firmware Target: IFLIGHT\_BLITZ\_H7\_PRO



VCPT	191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
LCRT1	191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
LCRT2	191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
LCRT3	 191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
LCRT4	 191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
LCRT5	 191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
LCRT6	191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
LCRT7	191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO
LCRT8	191200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO

Serial (via UART) ▼ Receiver Mode

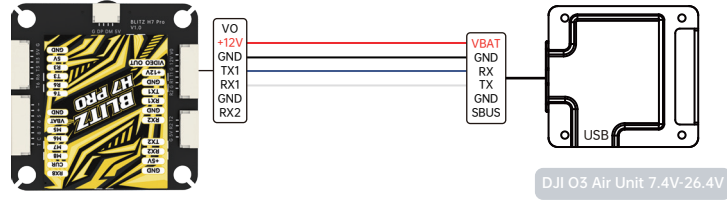
- The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)
- Select the correct data format from the drop-down, below:

SBUS ▼ Serial Receiver Provider

- 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 O3 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 signalintagency 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.  
Defaults: chudndbaud=115200, Goggle protocol set to NODMA

## Any other Receiver

Firmware Target: IFLIGHT BLITZ H7 PRO



USER ID	NAME	STATUS	ROLE	PERMISSIONS	GROUPS	PROFILES	PROFILES	PROFILES
USER1	115260	Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	
USER2	115260	Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	
USER3	115260	Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	
USER4	115260	Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	
USER5	115260	Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	
USER6	115260	Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	
USER7	115260	Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	
USER8	115260	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)

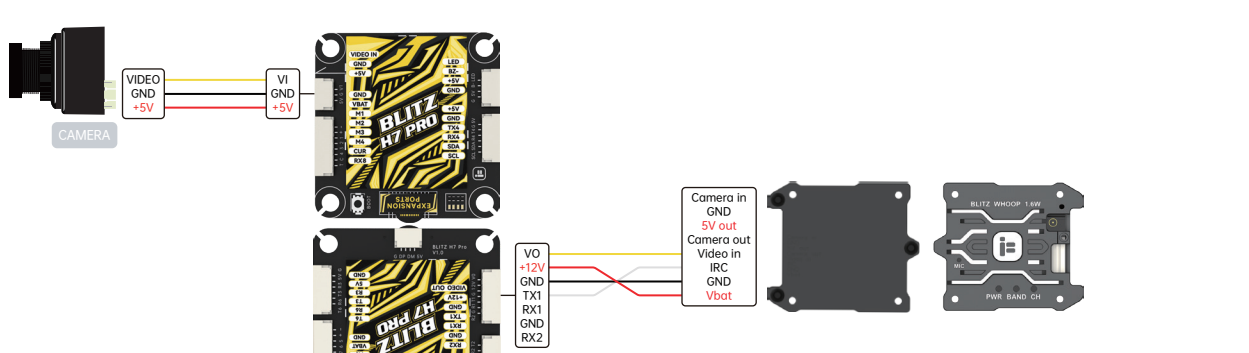
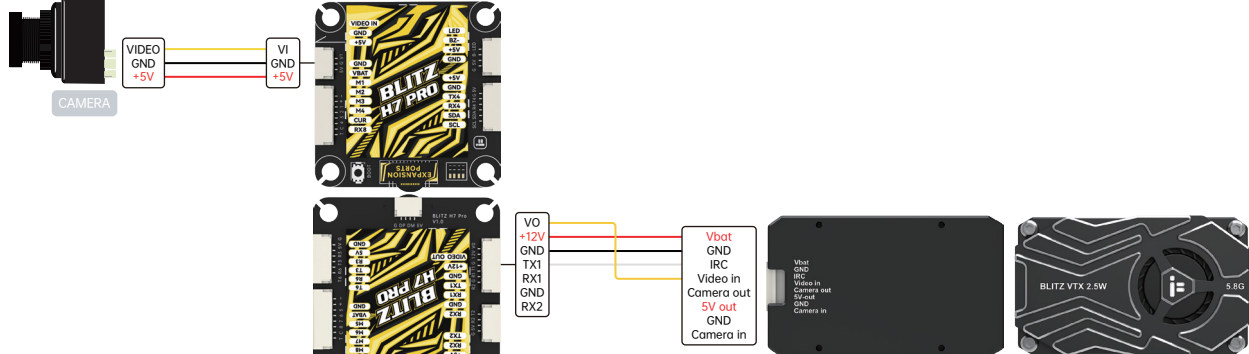
• Select the correct data format from the drop-down, below:

















































CRSF

Serial Receiver Provider

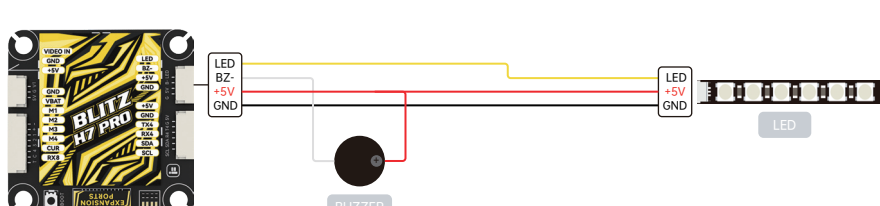
**Telemetry** ☒ **TELEMETRY** Telemetry output

## VTX/CAM

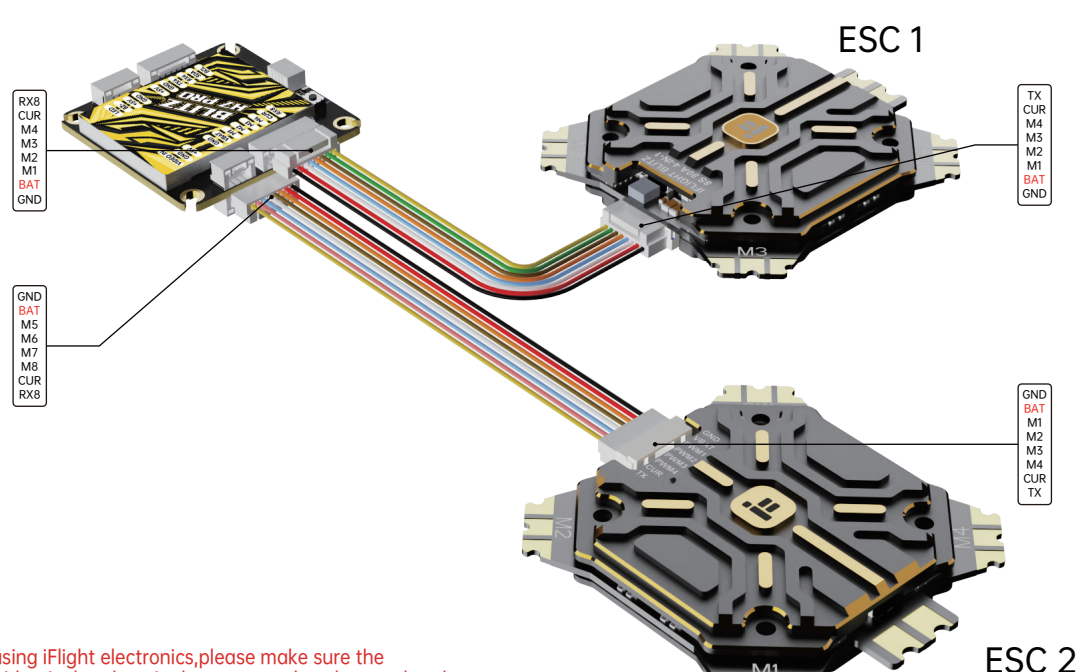


Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	 115200		Disabled  AUTO 	Disabled  AUTO 	Disabled  AUTO 
UART1	115200		Disabled  AUTO	Disabled  AUTO	Disabled  AUTO
UART2	 115200		Disabled  AUTO 	Disabled  AUTO 	Disabled  AUTO  Benesense LIDAR Blackbox logging Camera (RunCam Protocol) NSN (FSKY Protocol)
UART3	 115200		Disabled  AUTO 	Disabled  AUTO 	Disabled  AUTO 
UART4	 115200		Disabled  AUTO 	Disabled  AUTO 	Disabled  AUTO  VTX (FSKY Protocol) VTX (TBS SmartAudio) VTX (TBS SmartAudio)
UART5	 115200		Disabled  AUTO 	Disabled  AUTO 	Disabled  AUTO 
UART6	115200		Disabled  AUTO	Disabled  AUTO	Disabled  AUTO
UART7	 115200		Disabled  AUTO 	Disabled  AUTO 	Disabled  AUTO 

## LED/BUZZER

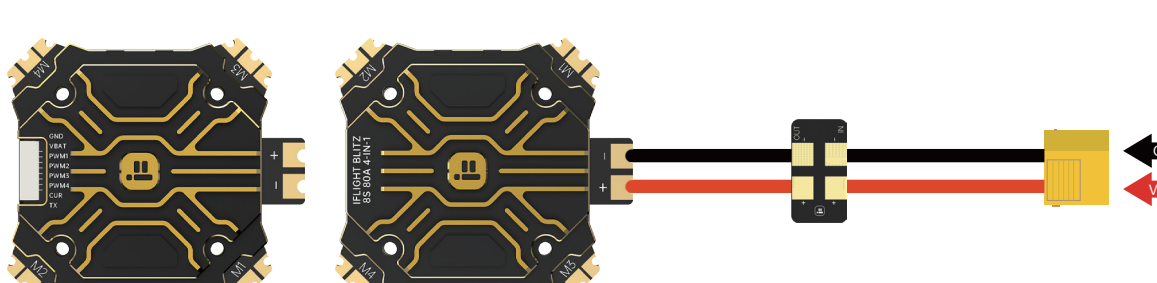


## ESC

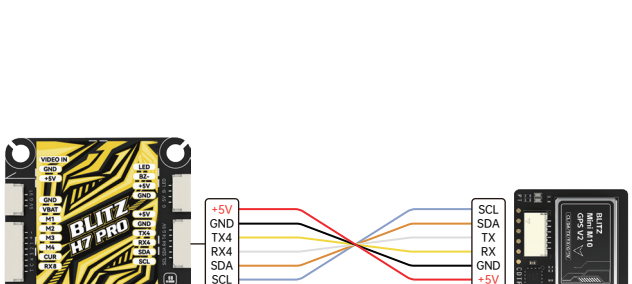






Note: If not using iFlight electronics, please make sure the

## Anti-Spark filter



CDC



Interface	Configuration/MP	Serial Rx	Serial Tx	Serial Input	Serial Output	Serial Input	Serial Output	Serial Input	Serial Output
USB VCP	115200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	Disabled
UART1	115200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	Disabled
UART2	 115200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	Disabled
UART3	115200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	Disabled
UART4	115200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	Disabled
UART5	 115200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	Disabled
UART6	115200		Disabled	AUTO	Disabled	AUTO	Disabled	AUTO	Disabled

## Dimensions/Mounting pattern

