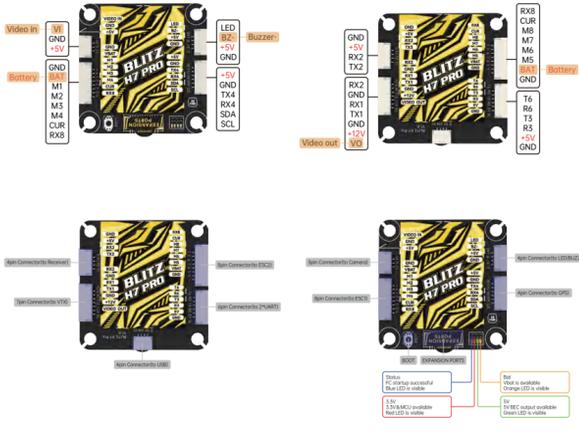


iFlight BLITZ H7 Pro Instructions

Parameters:

MCU: STM32H745
 Gyro: KM42688
 Baro: DP5310
 OSD: AT754E
 Input voltage: 14.8V-50.4V (4S-12S Lipo)
 BEC: Output 12V 2A continuous output current, 5A peak current (15 seconds)
 BEC: Output 5V 2A continuous output current, 5A peak current (15 seconds)
 UARTs: 7 UARTs (UART1, UART2, UART3, UART4, UART5, UART6, UART7)
 UART1 for VTX HD/Analog
 UART2 for Receiver
 UART4 for GPS
 UART5 for ESC Telemetry
 8-Channel PWM outputs
 2x I2C for GPS Mag
 1x I2C 25 5pin connector for Analog camera (Video in)(GND)+5V)
 1x I2C 25 4pin connector for Any Receiver (GND)+5V(RX2)(TX2)
 1x I2C 25 4pin connector for LED/Buzzer (LED/BZ+5V)(GND)
 1x I2C 25 4pin connector for GPS/MAK (I2C)(GND)(TX4)(RX4)(SDA)(SCL)
 1x I2C 25 7pin connector for HD VTX/Analog VTX (RX2)(GND)(RX1)(TX1)(GND)+12V(Video out)
 1x I2C 25 6pin connector for UART3&UART6 (TX4)(RX4)(TX3)(RX3)(+5V)(GND)
 1x I2C 25 8pin connector for ESC1 (GND)(Vbat)(IM2)(M3)(M4)(CUR)(RX8)
 1x I2C 25 8pin connector for ESC2 (GND)(Vbat)(IM5)(M4)(M7)(M8)(CUR)(RX8)
 4-IN-1 LEDs for FC STATE (3.3V Red) / (5V Green) / (BAT Orange)
 SmartAudio/SmartTX: VTX protocol supported
 WS2812c/strip: VTX protocol supported
 Beeper: Yes
 Dimensions: 42*42*11.3mm
 Mounting hole: 35*35mm*4
 Weight: ~20g
 Firmware: iFLIGHT_BLITZ_H7_PRO
 Arduspot: Blitzh745Pro



Notice

Firmware Target: iFLIGHT_BLITZ_H7_PRO

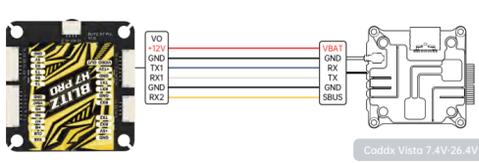


- 12V is a controllable output port. When the DJI Air Unit or any VTX is connected to 12V, ensure that VTX ON OFF is always enable in Betaflight (place the AUX in any idle one), and set the AUX channel corresponding to the remote control switch if you want the VTX power to be controllable.



DJI Digital Transmitters

Firmware Target: iFLIGHT_BLITZ_H7_PRO



Caddx Vista 7.4V-26.4V



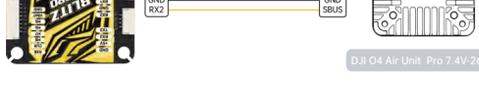
DJI Air Unit 7.4V-17.6V



DJI O3 Air Unit 7.4V-26.4V



DJI O4 Air Unit Pro 7.4V-26.4V



DJI O4 Air Unit 3.7-15.2V

Receiver	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	Disabled	Disabled	Disabled
UART1	115200	Disabled	Disabled	Disabled	Disabled
UART2	115200	Enabled	Disabled	Disabled	VTX (RC Jump)
UART3	115200	Disabled	Disabled	Disabled	Disabled
UART4	115200	Disabled	Disabled	Disabled	Disabled
UART5	115200	Disabled	Disabled	Disabled	Disabled
UART6	115200	Disabled	Disabled	Disabled	Disabled
UART7	115200	Disabled	Disabled	Disabled	Disabled
UART8	115200	Disabled	Disabled	Disabled	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 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 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

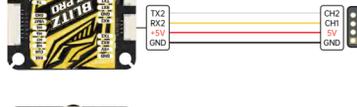
Firmware Target: iFLIGHT_BLITZ_H7_PRO



DJI O3 Air Unit 7.4V-26.4V



TBS nano



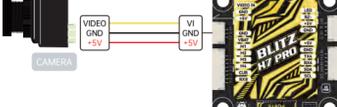
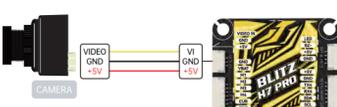
ELRS

Receiver	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	Disabled	Disabled	Disabled
UART1	115200	Disabled	Disabled	Disabled	Disabled
UART2	115200	Enabled	Disabled	Disabled	VTX (RC Jump)
UART3	115200	Disabled	Disabled	Disabled	Disabled
UART4	115200	Disabled	Disabled	Disabled	Disabled
UART5	115200	Disabled	Disabled	Disabled	Disabled
UART6	115200	Disabled	Disabled	Disabled	Disabled
UART7	115200	Disabled	Disabled	Disabled	Disabled
UART8	115200	Disabled	Disabled	Disabled </td <td>Disabled</td>	Disabled



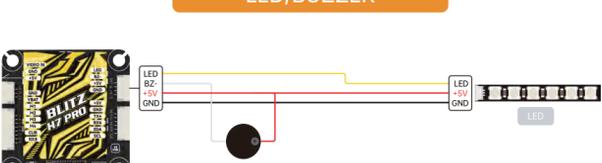
Telemetry: TELMETRY Telemetry output

VTX/CAM

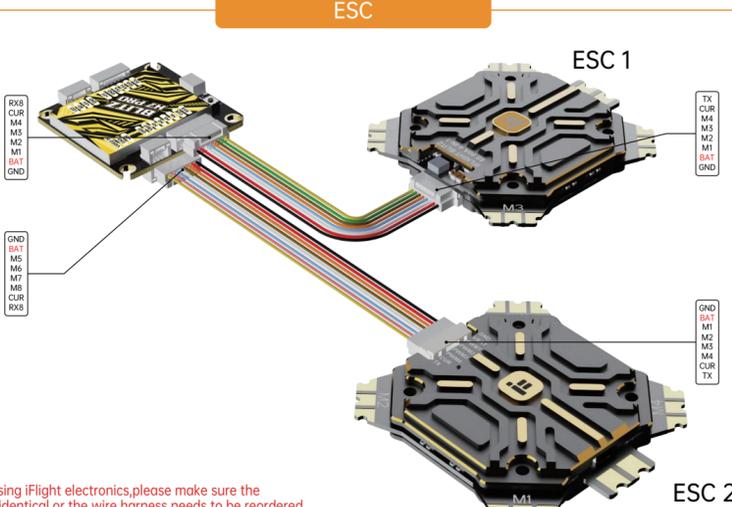


Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	Disabled	Disabled	Disabled
UART1	115200	Disabled	Disabled	Disabled	Disabled
UART2	115200	Enabled	Disabled	Disabled	Disabled
UART3	115200	Disabled	Disabled	Disabled	Disabled
UART4	115200	Disabled	Disabled	Disabled	Disabled
UART5	115200	Disabled	Disabled	Disabled	VTX (RC Jump)
UART6	115200	Disabled	Disabled	Disabled	Disabled
UART7	115200	Disabled	Disabled	Disabled	Disabled
UART8	115200	Disabled	Disabled	Disabled	Disabled

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



Receiver	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	Disabled	Disabled	Disabled
UART1	115200	Disabled	Disabled	Disabled	Disabled
UART2	115200	Enabled	Disabled	Disabled	GPS
UART3	115200	Disabled	Disabled	Disabled	Disabled
UART4	115200	Disabled	Disabled	Disabled	Disabled
UART5	115200	Disabled	Disabled	Disabled	Disabled
UART6	115200	Disabled	Disabled	Disabled	Disabled
UART7	115200	Disabled	Disabled	Disabled	Disabled
UART8	115200	Disabled	Disabled	Disabled	Disabled

SDA/SCL pads can not be remapped to UARTs



Dimensions/Mounting pattern

