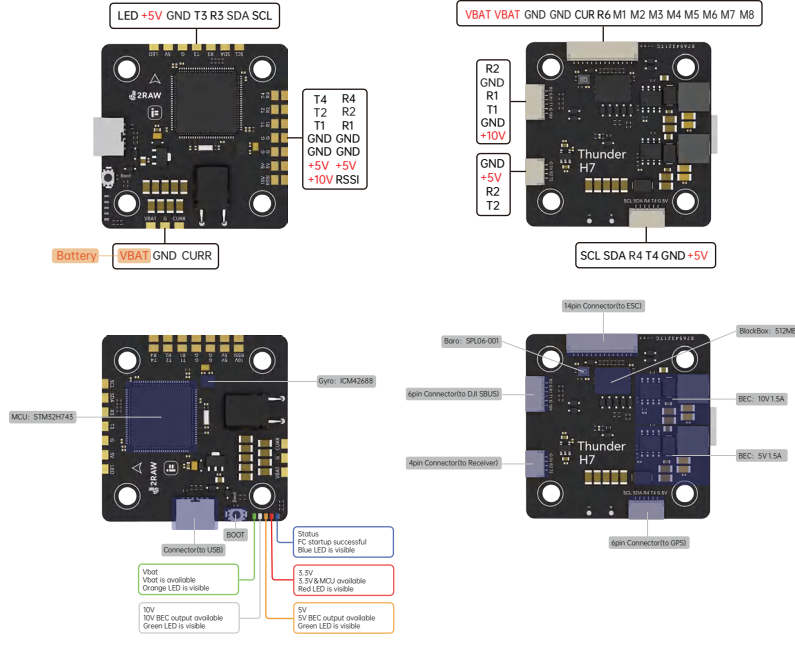


iFlight Thunder H7 Instructions

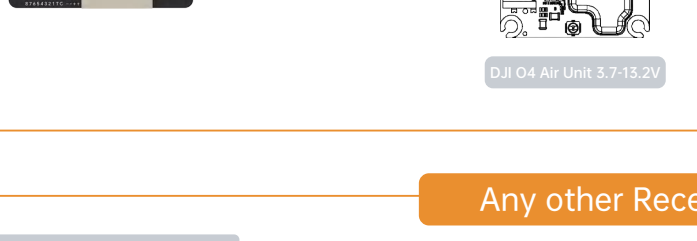
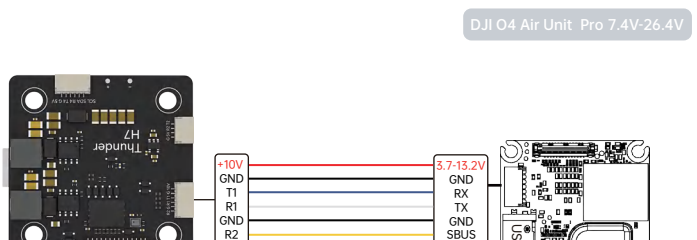
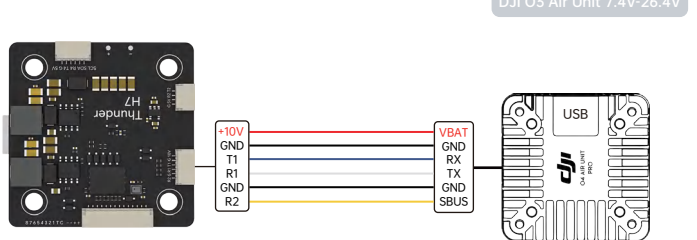
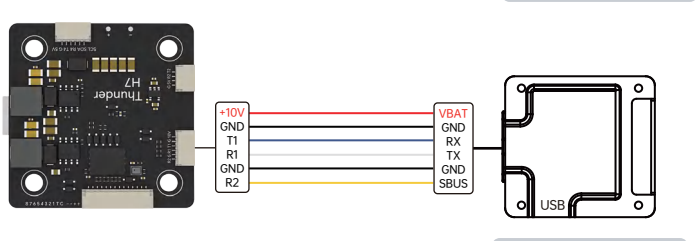
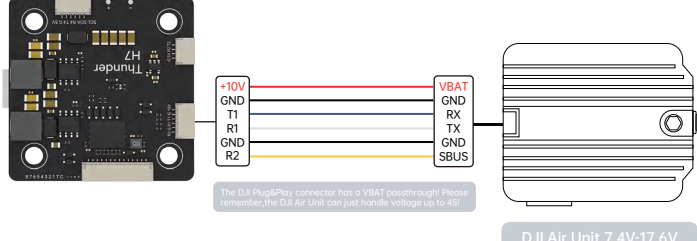
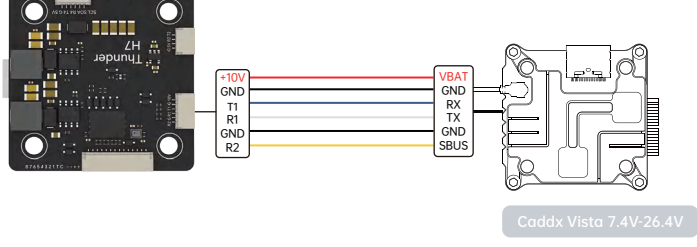
Parameters:

MCU: STM32H743
Gyro: ICM42688
Baro: SPL06-001
OSD Chip: Not supported analog OSD, only supports HD UART transmission OSD
①BEC: Output 5V 1.5A continuous output current, 2A peak current (120 seconds)
②BEC: Output 10V 1.5A continuous output current, 2A peak current (120 seconds)
BlackBox: 512MB
Uart: 4*UART(UART1, UART2, UART3, UART4, UART6)
UART1 for VTX HD
UART2 for Receiver
UART3 for other devices that require serial ports
UART4 for GPS
UART6 for ESC Telemetry
8*Dshot/PWM outputs
1xIC2
1xSLH01 14pin connector for ESC (Vbat/Vbat/G/G/G/R6/M1/M2/M5/M4/M5/M6/M7/M8)
1xSLH01 4pin connector for DJI (R2/G/RTT/G/NOV)
1xSLH01 6pin connector for GPS (SCLSDA/R4/T4/G4/SV)
1xSLH01 4pin connector for Receiver (G/SV/R2/T2)
5x0402 LEDs for FS STATUS (Start) (J: 3.5V Red) (I/5V Red) (I10V White) (BAT Green)
WS2812 LEDs: Yes
Beeper: NO
Dimensions: 42*42mm
Mount pattern: 50.5*50.5mm*φ4
Weight: 14g

Betaflight: 2RAW_THUNDER_H7
INAV: 2RAW_THUNDER_H7



DJI Digital Transmitters



Sensor	Configuration	MSF	Serial ID	Inventory Output	Sensor Input	Peripherals
US0 VCP		151526		Disabled	Disabled	Disabled
U401		151526		Disabled	Disabled	VTX (HSR - D-W)
U402		151526		Disabled	Disabled	Disabling
U403		151526		Disabled	Disabled	Binoculars (L&AR)
U404		151526		Disabled	Disabled	Camera (Ball-Cam Position)
U405		151526		Disabled	Disabled	Camera (Ball-Cam Position)
U406		151526		Disabled	Disabled	VTX (HSR - HS)
U407		151526		Disabled	Disabled	VTX (HSR - HS)
U408		151526		Disabled	Disabled	Disabled

Receiver

Serial (via UART) Receiver Mode

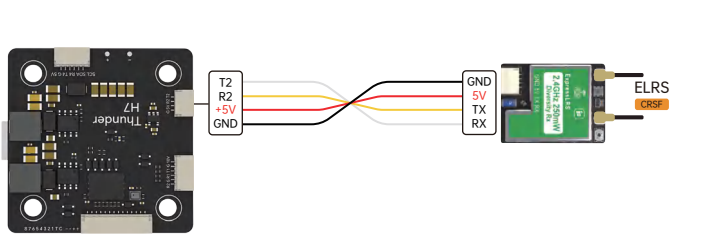
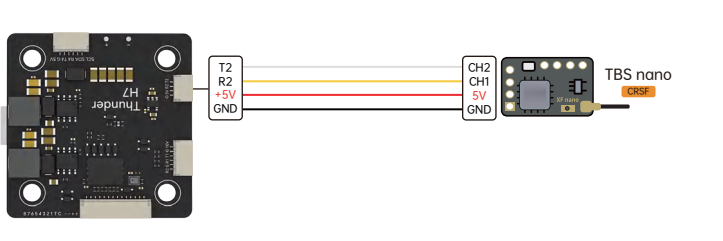
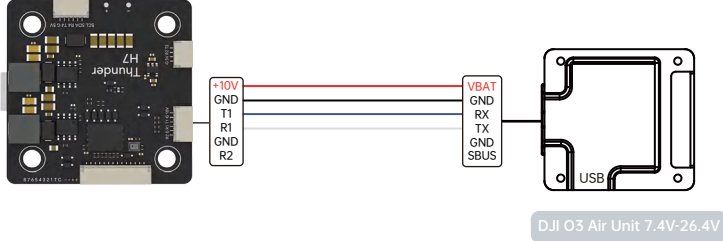
• The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)
• Select the correct data format from the drop-down, below:

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 Air Unit and Vista
- Please check your protocols, otherwise your DJI Radio won't input signals!
- DJI Google protocol and Betaflight protocol has to match!
For lower signalintagility 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, Google protocol set to NORMAL

Any other Receiver

Firmware Target: ZRAW_THUNDER_H/

[illegible]

Serial (via UART)

Receiver Mode

The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)

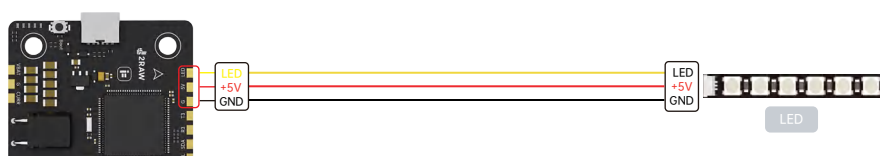
Select the correct data format from the drop-down, below:

CRSF

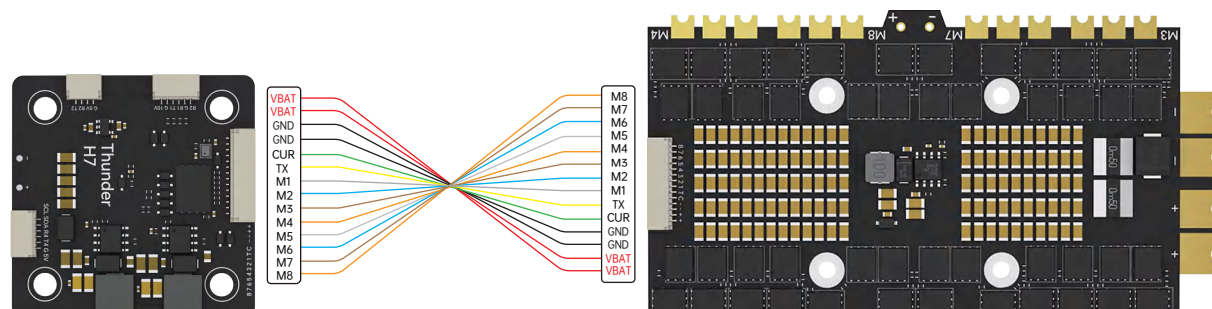
Serial Receiver Provider

Telemetry

LED

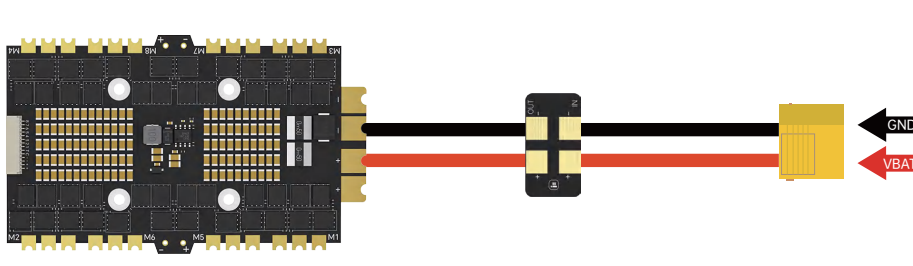


ESC

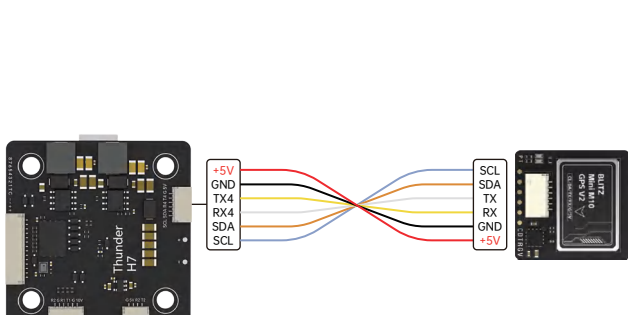





Note: If not using iFlight electronics, please make sure the plug pinout is identical or the wire harness needs to be reordered.

Anti-Spark filter



GPS



Device	Configuration	Serial ID	Secondary Output	Sensor Input	Permissions
US_VCP	 1152E0		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
US1T1	1152E0		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
US1T2	1152E0		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
US1T3	1152E0		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
US1T4	1152E0		Disabled / AUTO	GPS / 11620H	Disabled / AUTO
US1T5	 1152E0		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
US1T7	 1152E0		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
US1T8	1152E0		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO

GPS Configuration

UBLOX Protocol

☒ Auto Config

☐ Use Galileo ⓘ

☐ Set Home Point Once ⓘ

Auto-detect Ground Assistance Type

SDA/SCL pins can not be remapped to UARTs

Dimensions/Mounting pattern

