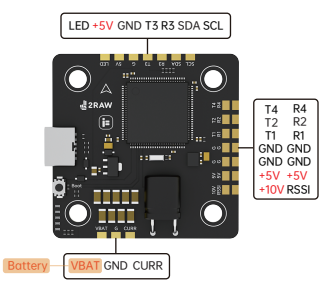
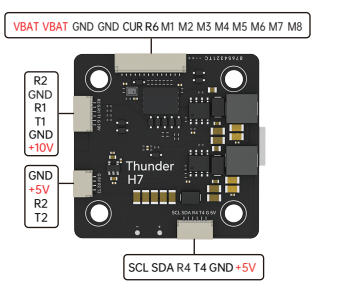
iFlight Thunder H7 Instructions

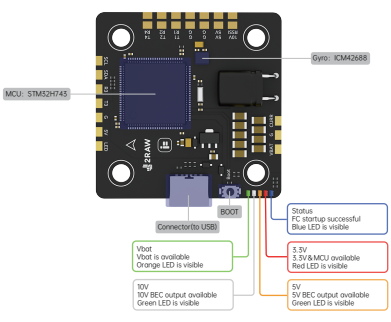
Parameters:

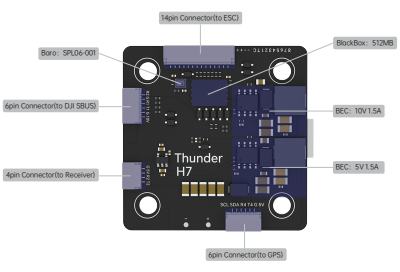
MCU: STM32H743
Gyro: ICM42688
Baro: SPL06-001
OSD Chip: Not support analog OSD, only supports HD UART transmission OSD
①BEC: Output 5V 1.5A continuous output current, 2A peak current (120 seconds)
②BEC: Output 10V 1.5A continuous output current, 2A peak current (120 seconds)
BlackBox: 512MB
Uart: 6*UART(UART1、UART2、UART3、UART4、UART6)
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
1×I2C
1xSH1.0 14pin connector for ESC（Vbat/Vbat/G/G/Cur/R6/M1/M2/M3/M4/M5/M6/M7/M8）
1xSH1.0 6pin connector for DJI（R2/G/R1/T1/G/10V）
1xSH1.0 6pin connector for GPS（SCL/SDA/R4/T4/G/5V）
1xSH1.0 4pin connector for Receiver （G/5V/R2/T2）
5×0402 LEDs for FC STATUS（Start Blue）/（3.3V Red）/(5V Red）/（10V White)/(BAT Green)
WS2812 ledStrip: Yes
Beeper: NO
Dimensions: 42*42mm
Mount pattern: 30.5*30.5mm/φ4
Weight: 14g

Firmware:
Betaflight: 2RAW_THUNDER_H7
INAV: 2RAW_THUNDER_H7



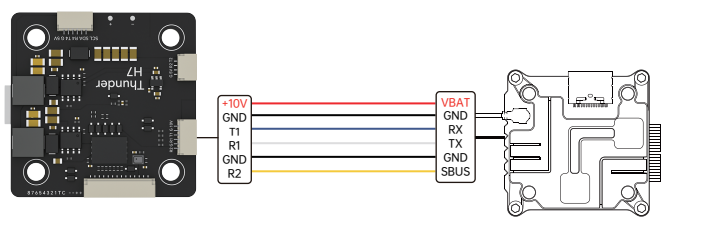


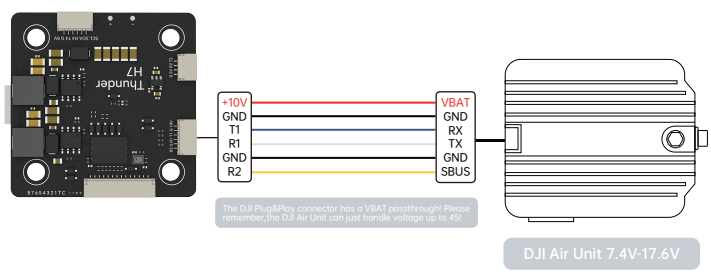


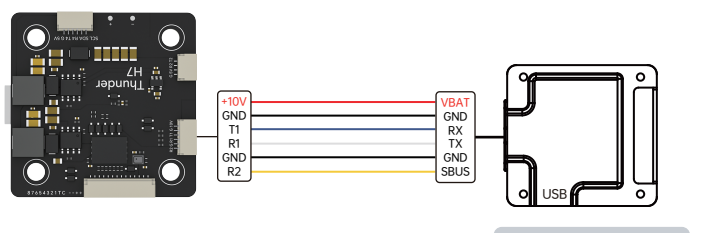


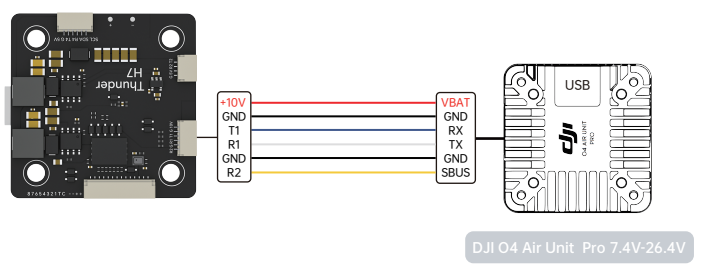
DJI Digital Transmiters

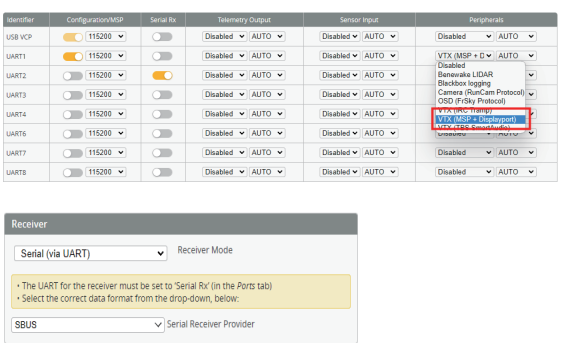
Firmware Target: 2RAW_THUNDER_H7







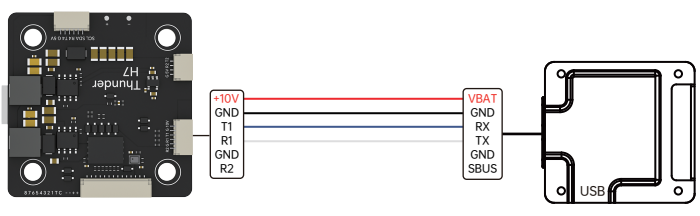


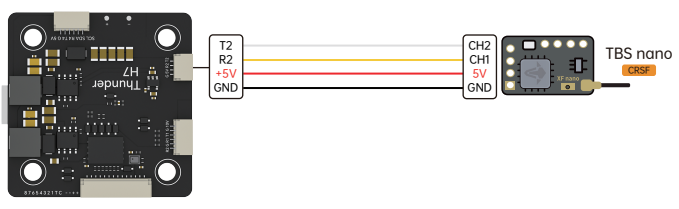


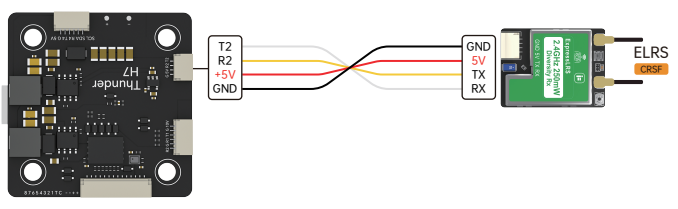
- To enable the air unit OSD under Betaflight 4.4 version, you need to select VTX (MSP+Displayport) in the peripheral port where the air unit signal is connected to the port interface.
- note: DJI FPV Remote Controller2 is for DJI O3 Air Unit
  DJI FPV Remote Controller is for DJI Air Unit and Vista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

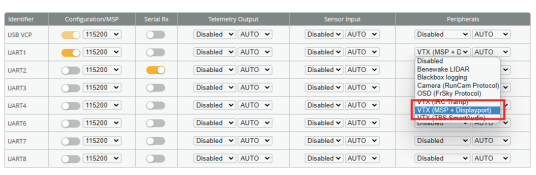
Any other Receiver

Firmware Target: 2RAW_THUNDER_H7





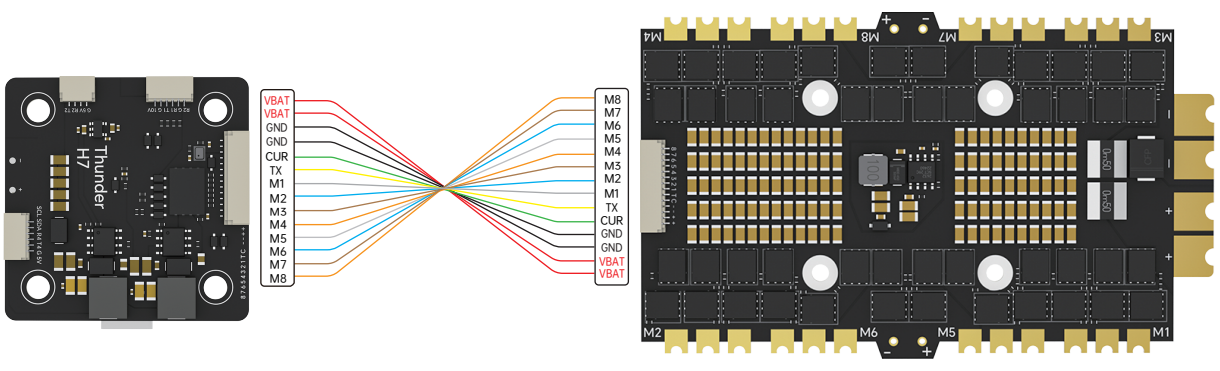




LED

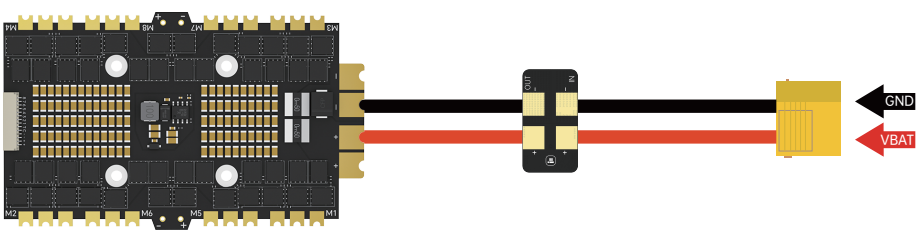


ESC

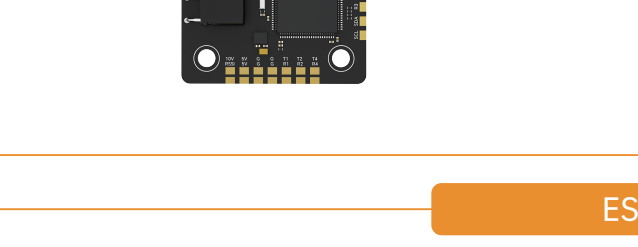


Note: If not using iFlight electronics,please make sure the plug pinout is identical or the wire harness needs to be reordered.

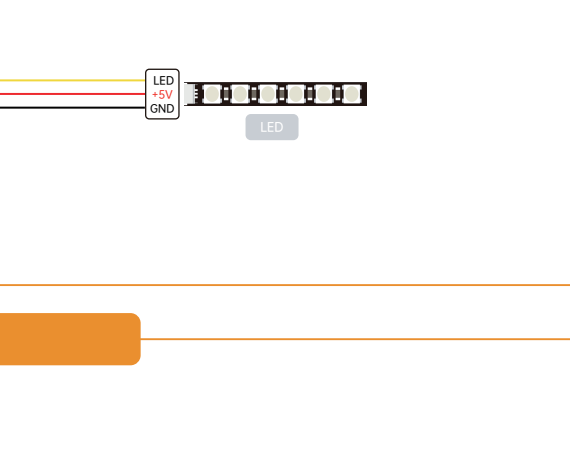
Anti-Spark filter



GPS



SDA/SCL pads can not be remapped to UARTs



Dimensions/Mounting pattern