

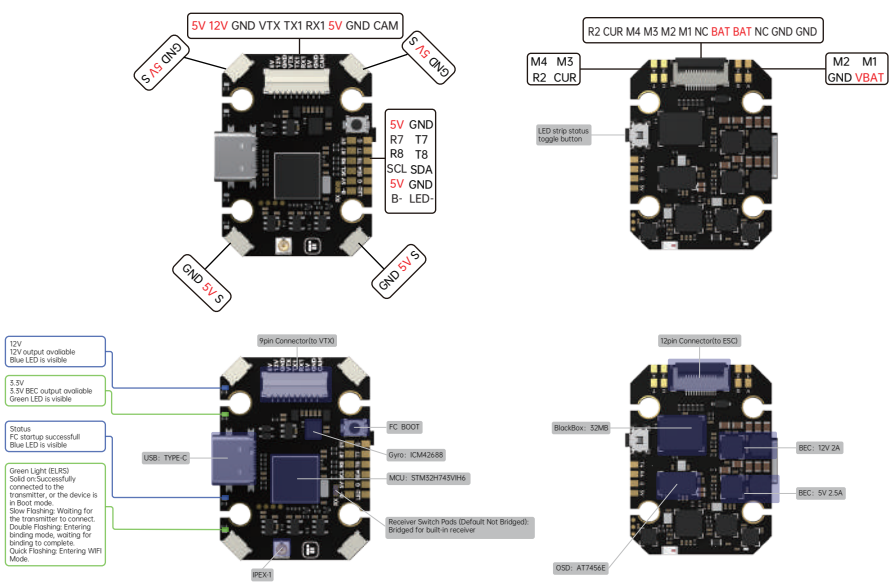
iFlight Borg Mini H7 RX Wiring diagram

Parameters:

FC Specifications:
Input voltage: 4-8S Support LHV battery
Dimensions: 56*27mm±1mm
Mount pattern: 20*20w4
Weight: 7.7g±1
MCU: STM32H743VH6
Gyro: ICM42688
OSD: AT7456E (LGA)
Blackbox: 32MB
Motor outputs: 4
IDC: Supported
BEC: 5V 2.5A, 12V 2A (12V with VTX switch)
LED Strip: Supported
Beeper: Yes
VTX protocol: Support DJI MSP/SmartAudio/RC/Tramp/H2Zero
UART1: 5
Uart: SPUART (UART1, UART2, UART4, UART7, UART8)
UART1: VTX HD / Analog
UART2: ESC Telemet
UART4: ELRS Receiver
UART7: GPS or other sensors that require a serial port
UART8: GPS or other sensors that require a serial port
VTX ON/OFF Mode Command:
resource PINIO 1 D10
set pinio_box = 1,1,1,1
set pinio_box = 40,41,255,255
set box_user_1_name = VTX_ON/OFF
aux 0 40 8 900 2100 0 0
save

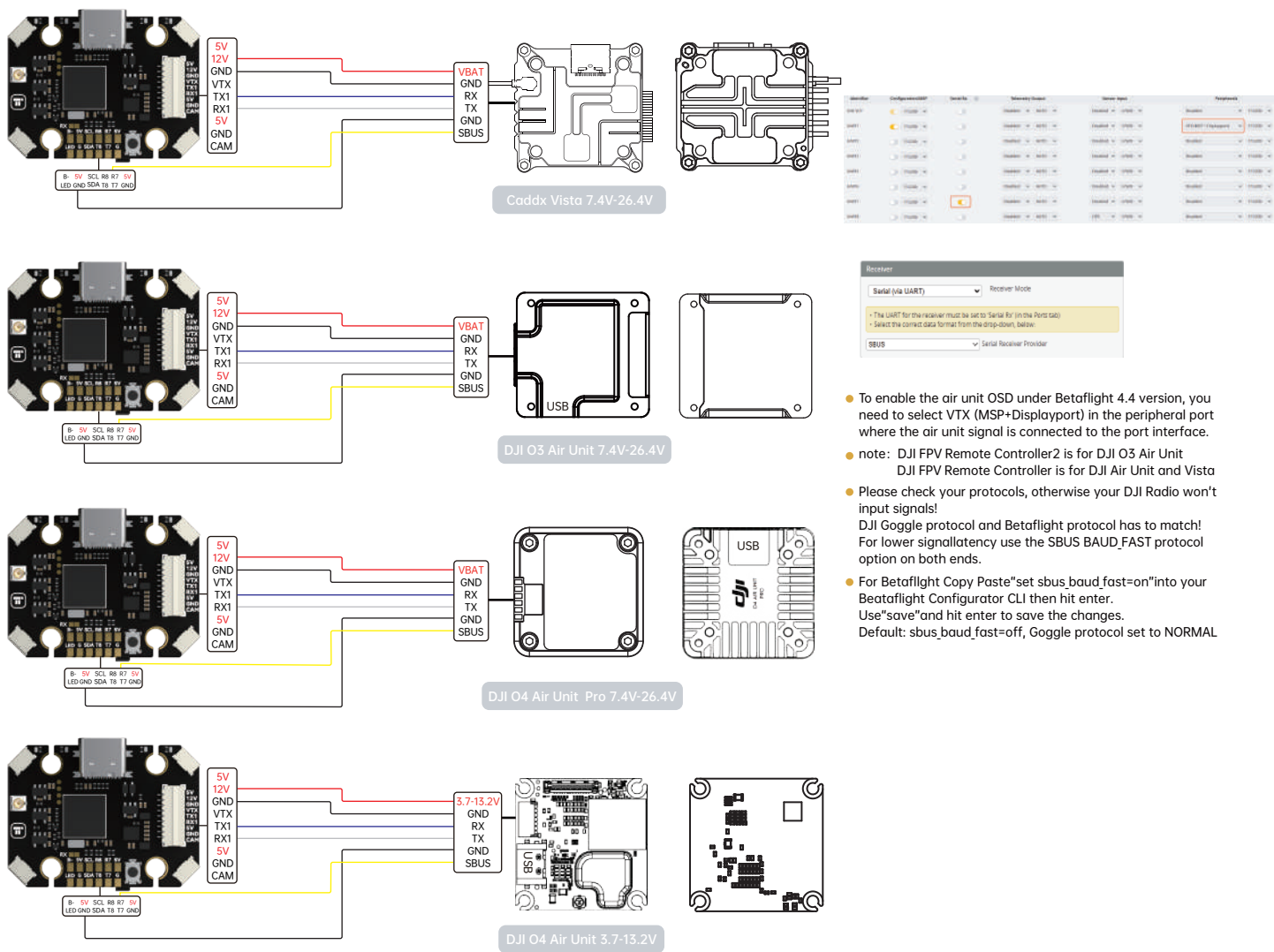
Firmware:
Betaflight: iFLIGHT H743 AIO V2
Receiver Firmware: iFLIGHT 2.4GHz RX

Receiver Specification:
MCU: ESP8285
RF: SX1281
Receiver Type: 2.4GHz
Telemetry power: 100mW (20dBm)
LNA: Yes
Firmware: iFlight2.4GHz 2400_RX
Luo Script: iFlight2400RX
TCXO: Yes



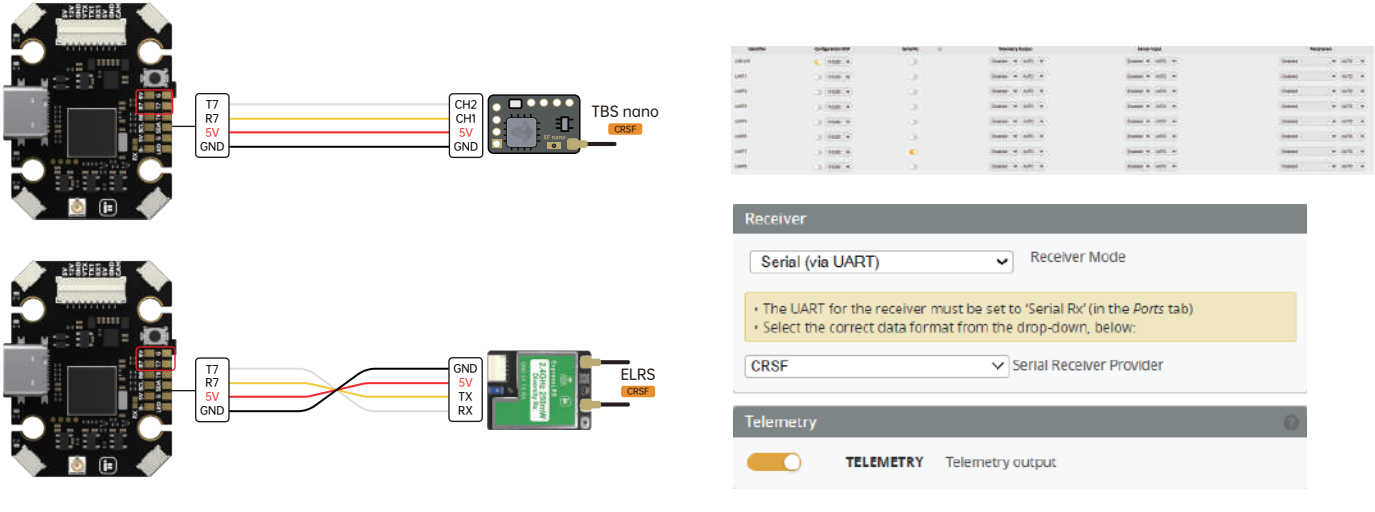
DJI Digital Transmitters: SUBS Protocol

Firmware Target: iFLIGHT H743 AIO V2

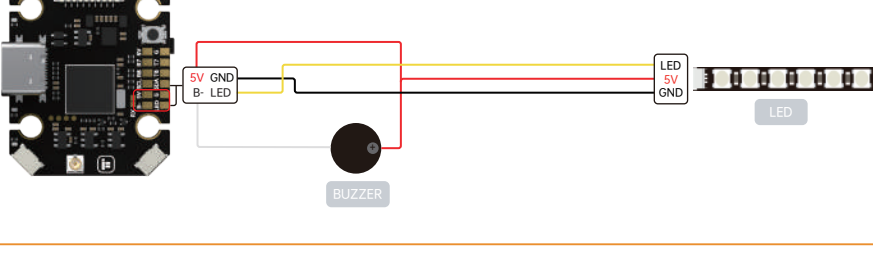


- To enable the air unit OSD under Betaflight 4.4 version, you need to select VTX (MSP+Displayport) in the peripheral port where the air unit signal is connected to the port interface.
- note: DJI FPV Remote Controller2 is for DJI O3 Air Unit
DJI FPV Remote Controller2 is for DJI Air Unit and Vista
- 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

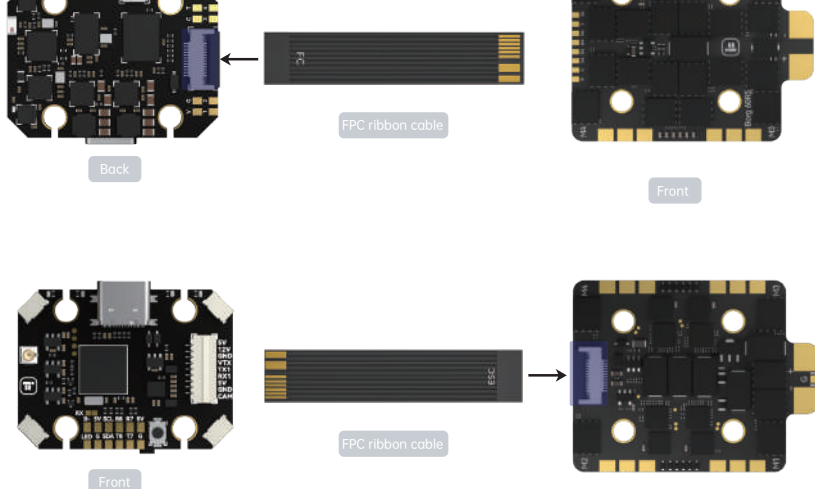
Others Receivers(TBS/ELRS): CRSF Protocol



LED/BUZZER

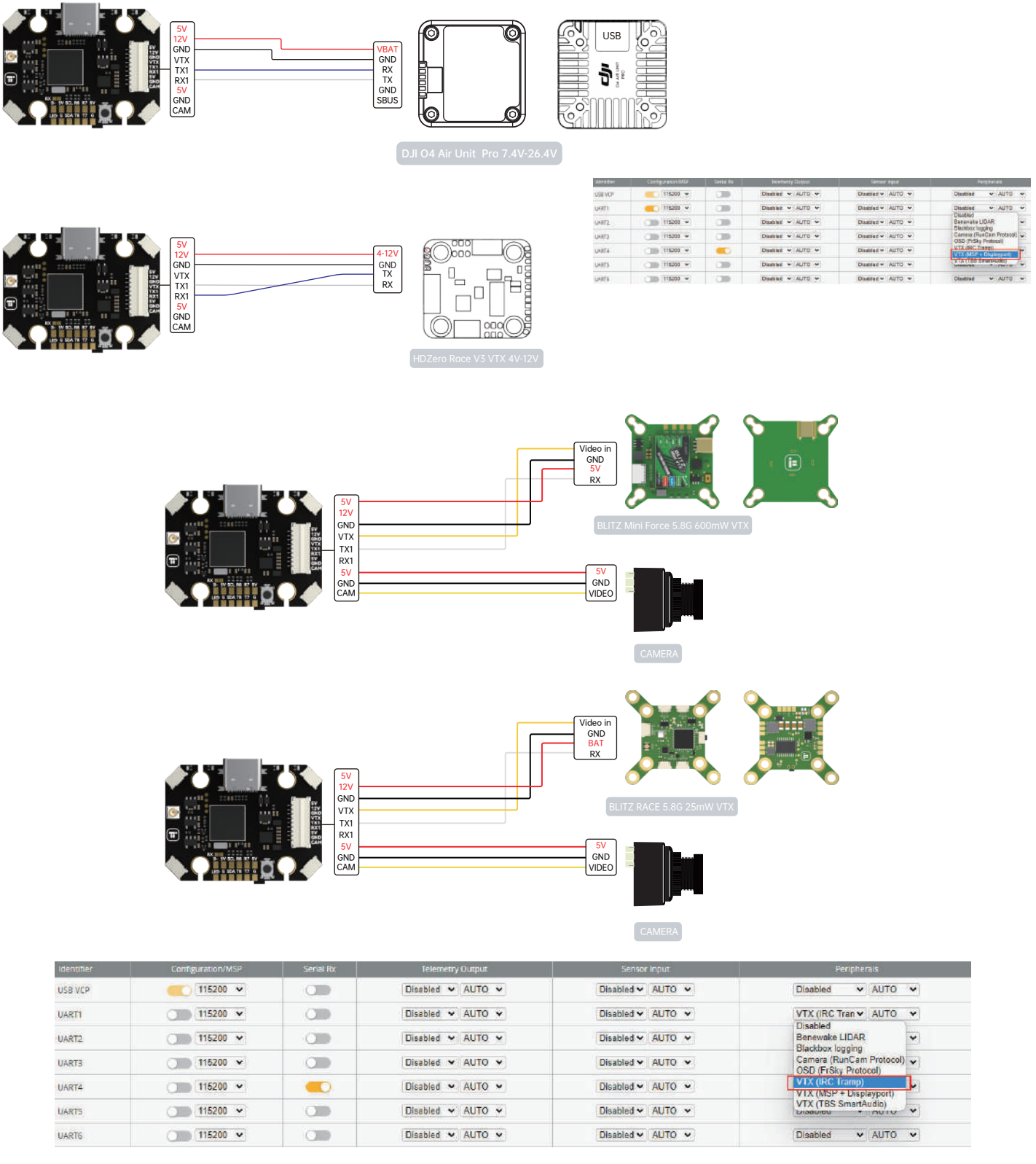


ESC



Note: If using an ESC from another brand, please ensure the wiring is connected correctly.

VTX/CAM



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USB VCP	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART1	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
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IFLIGHT Borg 60RS ESC

