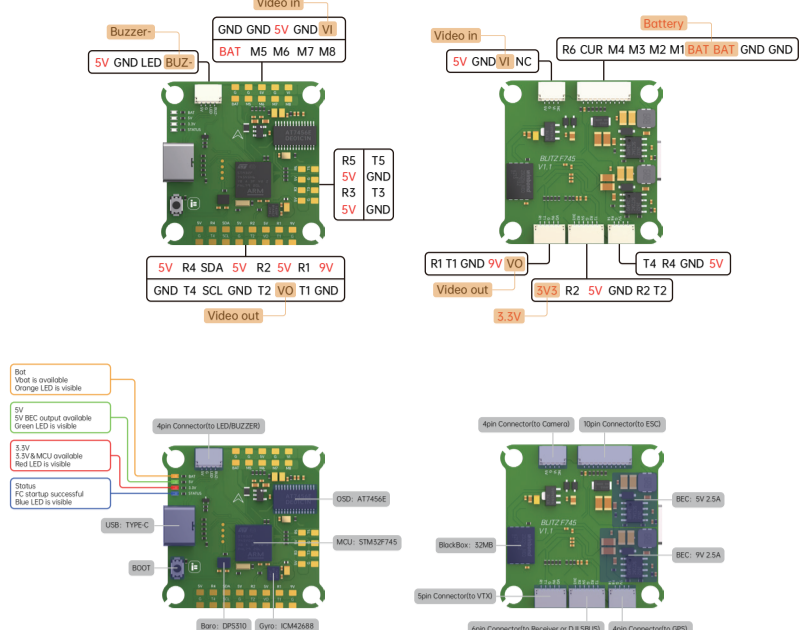


iFlight BLITZ F745 Instructions

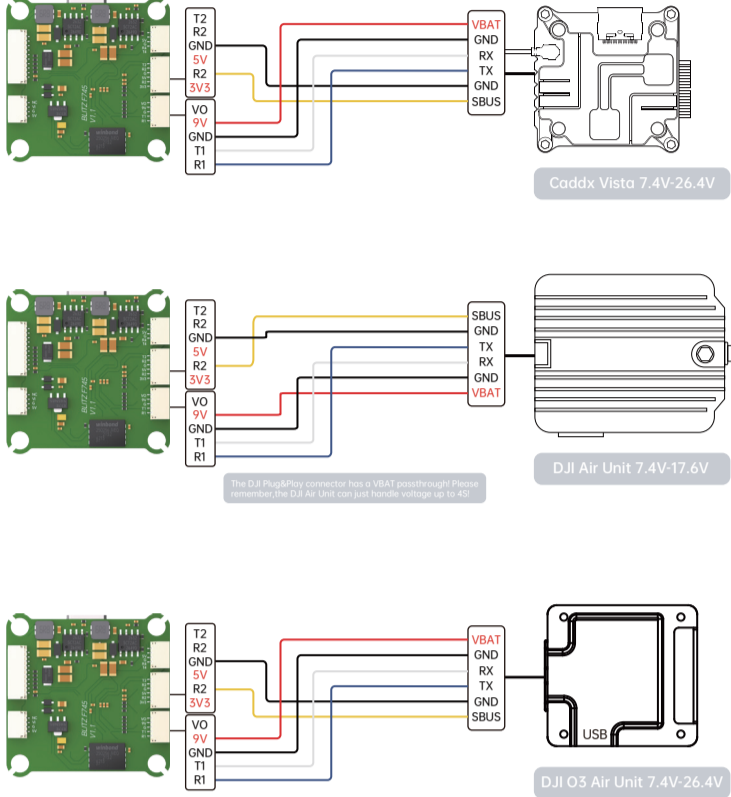
Parameters:

MCU: STM32F745  
Gyro: ICM42688  
Baro: DPS310  
OSD: AT7454E  
UBEC: Output 5V 2.5A continuous output current, 3A peak current (15 seconds)  
BEC: Output 9V 2.5A continuous output current, 3A peak current (15 seconds)  
BlackBox: 32MB  
Uart: 6\*UART(UART1, UART2, UART3, UART4, UART5, UART6)  
UART1 for VTX/HD/Analog  
UART2 for Receiver  
UART3, UART4, UART5 for GPS or Other devices that require serial ports  
UART6 for ESC Telemetry  
8\*Shot/PWM outputs  
1\*IC2  
1xSH1.0 5pin connector for HD VTX/Analog VTX&CAM (R1/T1/G/P/V/V/O)  
1xSH1.0 10pin connector for ESC (R6/CUR/M4/M3/M2/M1/BAT/BAT/G/G)  
1xSH1.0 6pin connector for Any Receiver or DJI (3V3/R2/SV/G/R2/T2)  
1xSH1.0 4pin connector GPS (T4/R4/G/SV)  
1xSH1.0 4pin connector Camera (5V/G/V/NC)  
1xSH1.0 4pin connector LED&Beeper (BUZ-/LED/GND/5V)  
4\*0402 LEDs for FC STATUS (3.3V Red) / (Start Blue) / (5V Green) / (BAT Orange)  
Smartaudio&IRCTramp VTX protocol supported  
WS2812ledStrip: Yes  
Beeper: Yes  
Dimensions: 36.5\*35mm  
Mounting hole: 30.5\*30.5mm/φ4  
Weight: 7.8g

Firmware target:  
Betaflight: iFLIGHT, BLITZ, F7, AIO  
INAV: /  
Ardupilot: arduplane\_with, bl



DJI Digital Transmitters



Identifier	Configuration/MP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	Disabled	Disabled	Disabled
UART1	115200	Disabled	Disabled	Disabled	Disabled
UART2	115200	Disabled	Disabled	Disabled	Disabled
UART3	115200	Disabled	Disabled	Disabled	Disabled
UART4	115200	Disabled	Disabled	Disabled	Disabled
UART5	115200	Disabled	Disabled	Disabled	Disabled
UART6	115200	Disabled	Disabled	Disabled	Disabled

Receiver

Serial (via UART)

Receiver Mode

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

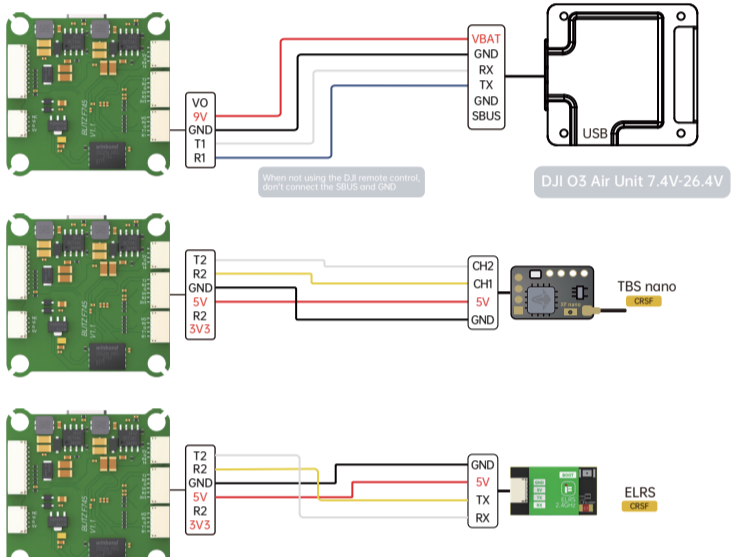
Select the correct data format from the drop-down, below:

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 Goggle protocol and Betaflight protocol has to match!  
For lower signallatency 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



Identifier	Configuration/MP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	Disabled	Disabled	Disabled
UART1	115200	Disabled	Disabled	Disabled	Disabled
UART2	115200	Disabled	Disabled	Disabled	Disabled
UART3	115200	Disabled	Disabled	Disabled	Disabled
UART4	115200	Disabled	Disabled	Disabled	Disabled
UART5	115200	Disabled	Disabled	Disabled	Disabled
UART6	115200	Disabled	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:

CRSF

Serial Receiver Provider

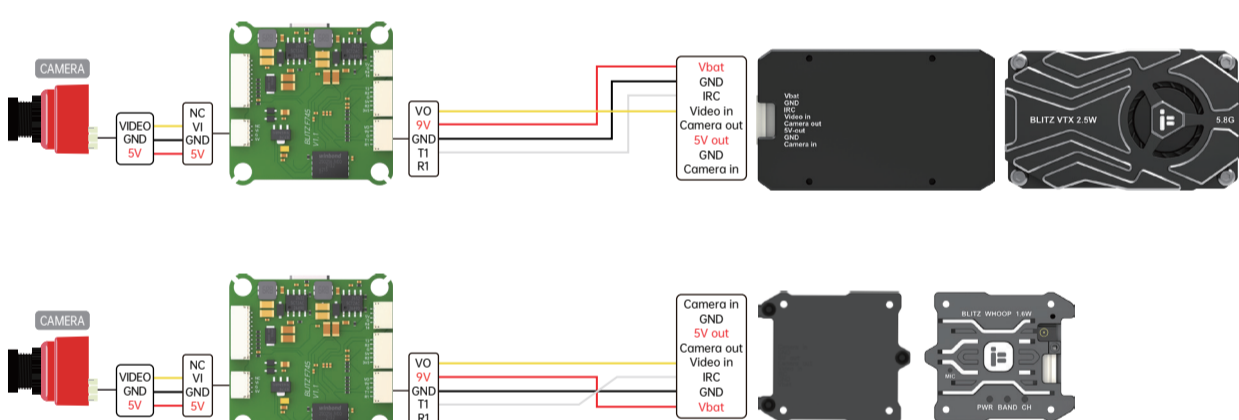
Telemetry

TELEMETRY

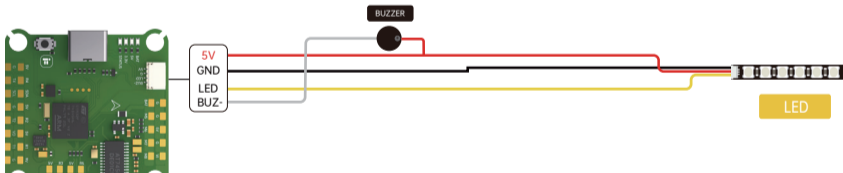
Telemetry output

VTX/CAM

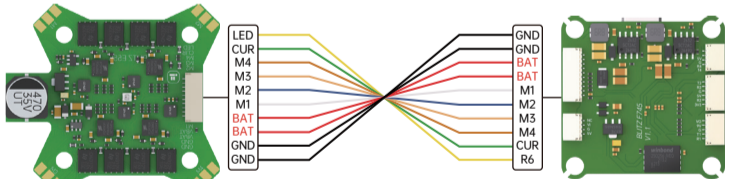
Identifier	Configuration/MP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	Disabled	Disabled	Disabled
UART1	115200	Disabled	Disabled	Disabled	Disabled
UART2	115200	Disabled	Disabled	Disabled	Disabled
UART3	115200	Disabled	Disabled	Disabled	Disabled
UART4	115200	Disabled	Disabled	Disabled	Disabled
UART5	115200	Disabled	Disabled	Disabled	Disabled
UART6	115200	Disabled	Disabled	Disabled	Disabled



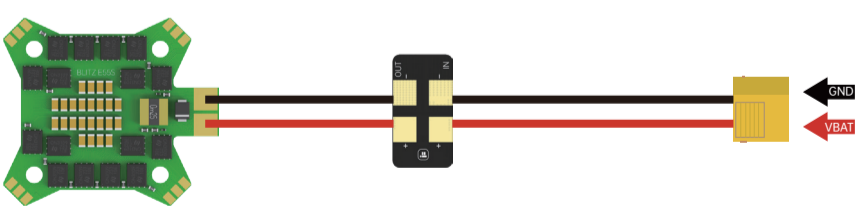
LED/BUZZER



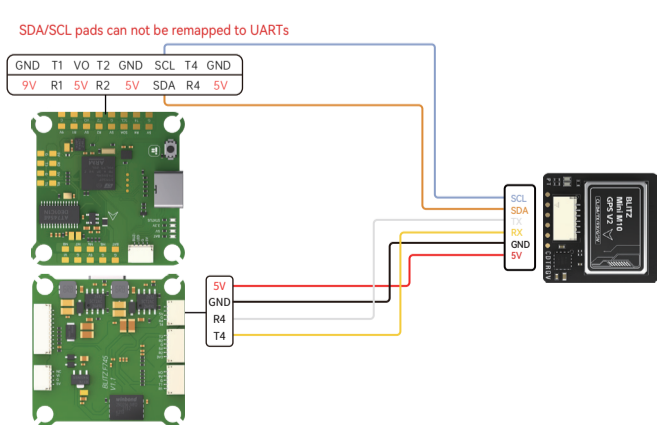
ESC



Anti-Spark filter



GPS



Identifier	Configuration/MP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	Disabled	Disabled	Disabled
UART1	115200	Disabled	Disabled	Disabled	Disabled
UART2	115200	Disabled	Disabled	Disabled	Disabled
UART3	115200	Disabled	Disabled	Disabled	Disabled
UART4	115200	Disabled	Disabled	Disabled	Disabled
UART5	115200	Disabled	Disabled	Disabled	Disabled
UART6	115200	Disabled	Disabled	Disabled	Disabled

Setup

Ports

Configuration

Power & Battery

PID Tuning

Receiver

Motors

OSD

Blackbox

CLI

GPS

GPS for navigation and telemetry

Note: Remember to configure a Serial Port (via Ports tab) when using GPS feature.

UBLOX Protocol

Auto Baud

Auto Config

Use Galileo

Set Home Point Once

Auto-detect Ground Assistance Type

Dimensions/Mounting pattern

