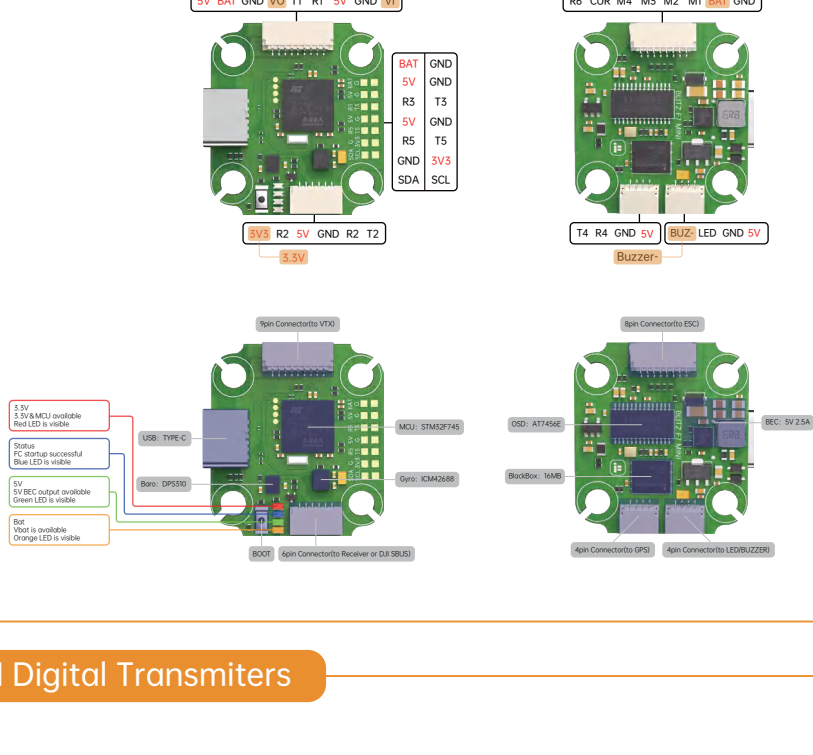


iFlight BLITZ MINI F745 Instructions

Parameters:

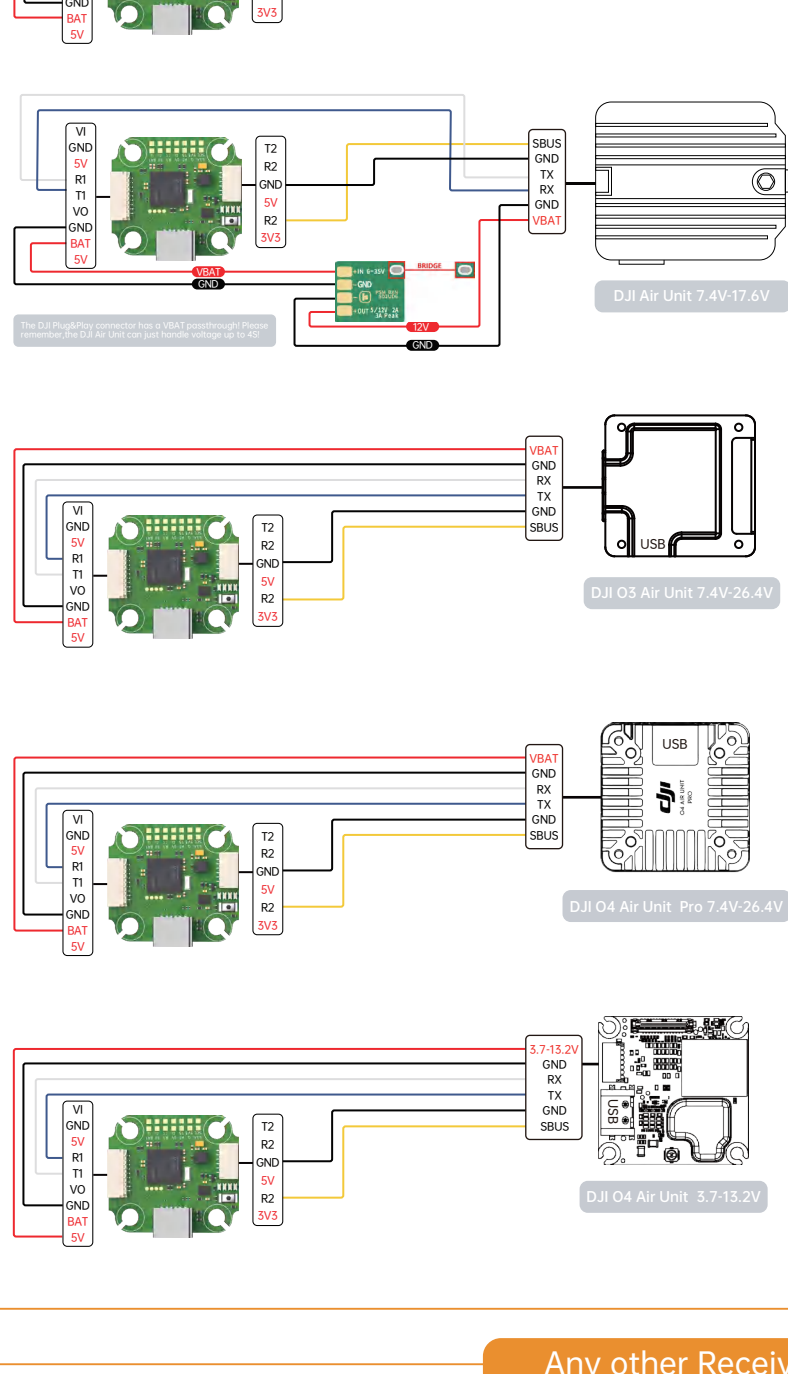
MCU: STM32F745
Boro: ICM42688
Boro: DPS310
OSD: AT7456E
BEC: Output 5V 2.5A continuous output current, 3A peak current (15 seconds)
BlackBox: 16MB
UART: 6*UART(UART1, UART2, UART3, UART4, UART5, UART6)
UART1 for VTX HD/Analog
UART2 for Receiver
UART3, UART4, UART5 for GPS or Other devices that require serial ports
UART6 for ESC Telemetry
4*Shot/PWM outputs
1*IC2C
1xSH1.0 9pin connector for HD VTX/Analog VTX&CAM (5V/BAT/G/VO/T1/R1/5V/G/V)
1xSH1.0 8pin connector for ESC (R6/CUR/M4/M3/M2/M1/BAT/G)
1xSH1.0 4pin connector for Any Receiver or DJI (3V3/R2/5V/G/R2/T2)
1xSH1.0 4pin connector GPS (T4/R4/G/5V)
1xSH1.0 4pin connector LED&Beeper (BUZ-LED/G/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: 30.5*27mm
Mounting holes: 20*20mmφ4
Weight: 4.8g

Firmware target:
Betaflight: iFLIGHT BLITZ F745
iNAV: /
ArduPilot: arduplane_vh16l



DJI Digital Transmitters

FC plug&play port and setup compatible to DJI Air Unit and Caddx Vista



Receiver	Configuration	Serial Rx	Telemetry Output	Receiver Mode	Receiver
UART1	115200	Disabled	AUTO	Disabled	AUTO
UART2	115200	Disabled	AUTO	Disabled	AUTO
UART3	115200	Disabled	AUTO	Disabled	AUTO
UART4	115200	Disabled	AUTO	Disabled	AUTO
UART5	115200	Disabled	AUTO	Disabled	AUTO

Receiver

Serial (via UART)

Receiver Mode

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

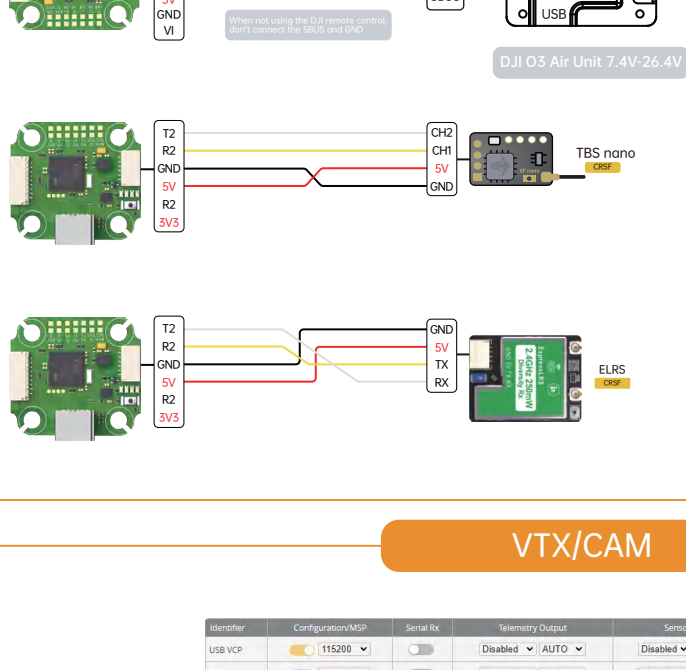
Select the correct data format from the drop-down, below

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 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



Receiver	Configuration	Serial Rx	Telemetry Output	Receiver Mode	Receiver
UART1	115200	Disabled	AUTO	Disabled	AUTO
UART2	115200	Disabled	AUTO	Disabled	AUTO
UART3	115200	Disabled	AUTO	Disabled	AUTO
UART4	115200	Disabled	AUTO	Disabled	AUTO
UART5	115200	Disabled	AUTO	Disabled	AUTO

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

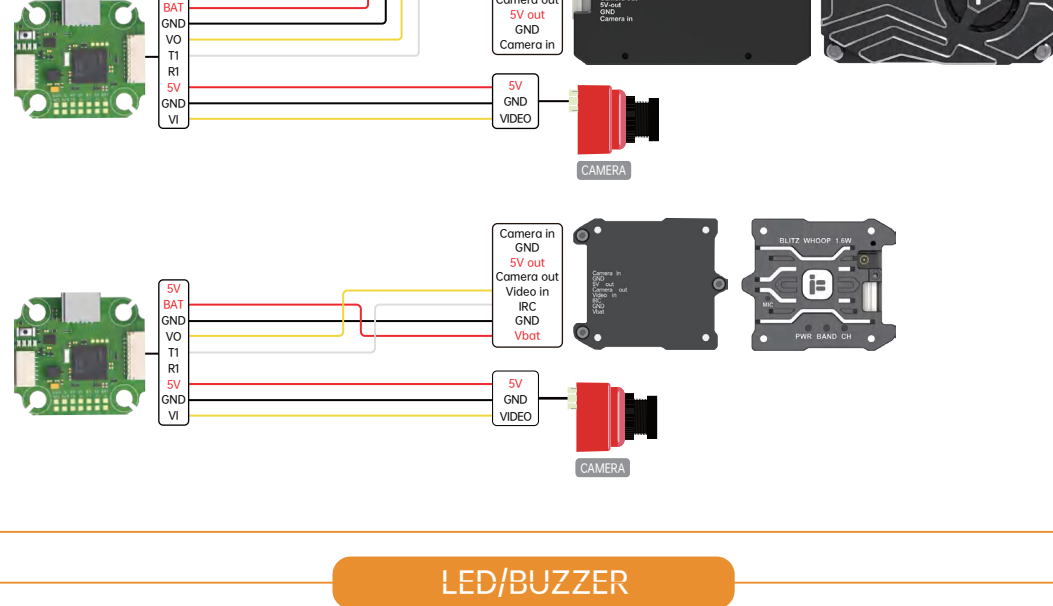
Serial Receiver Provider

TELEMETRY

Telemetry output

VTX/CAM

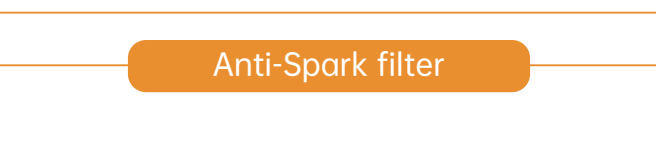
Receiver	Configuration	Serial Rx	Telemetry Output	Receiver Mode	Receiver
UART1	115200	Disabled	AUTO	Disabled	AUTO
UART2	115200	Disabled	AUTO	Disabled	AUTO
UART3	115200	Disabled	AUTO	Disabled	AUTO
UART4	115200	Disabled	AUTO	Disabled	AUTO
UART5	115200	Disabled	AUTO	Disabled	AUTO



LED/BUZZER



ESC

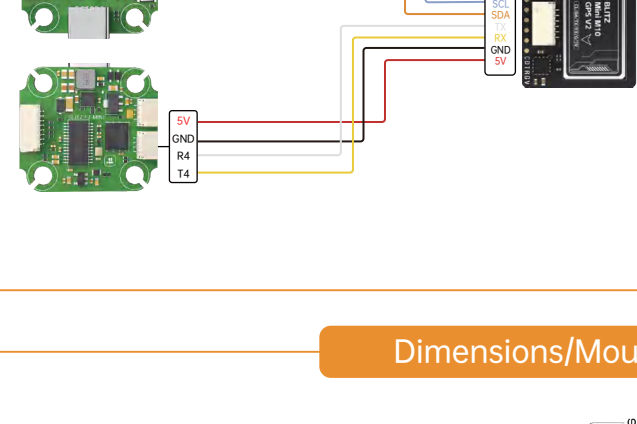


Anti-Spark filter



GPS

SDA/SCL pads can not be remapped to UARTs



Receiver	Configuration	Serial Rx	Telemetry Output	Receiver Mode	Receiver
UART1	115200	Disabled	AUTO	Disabled	AUTO
UART2	115200	Disabled	AUTO	Disabled	AUTO
UART3	115200	Disabled	AUTO	Disabled	AUTO
UART4	115200	Disabled	AUTO	Disabled	AUTO
UART5	115200	Disabled	AUTO	Disabled	AUTO

Setup

Ports

Configuration

Receiver

Modes

Motors

OSD

Bluetooth

CLI

GPS

GPS for navigation and telemetry

Note: Remember to configure a Serial Port for GPS data when using GPS features.

Auto Config

Auto Baud

Auto Config

Use Defaults

Set Home Point Once

Auto-detect

Ground Assistance Type

Dimensions/Mounting pattern

