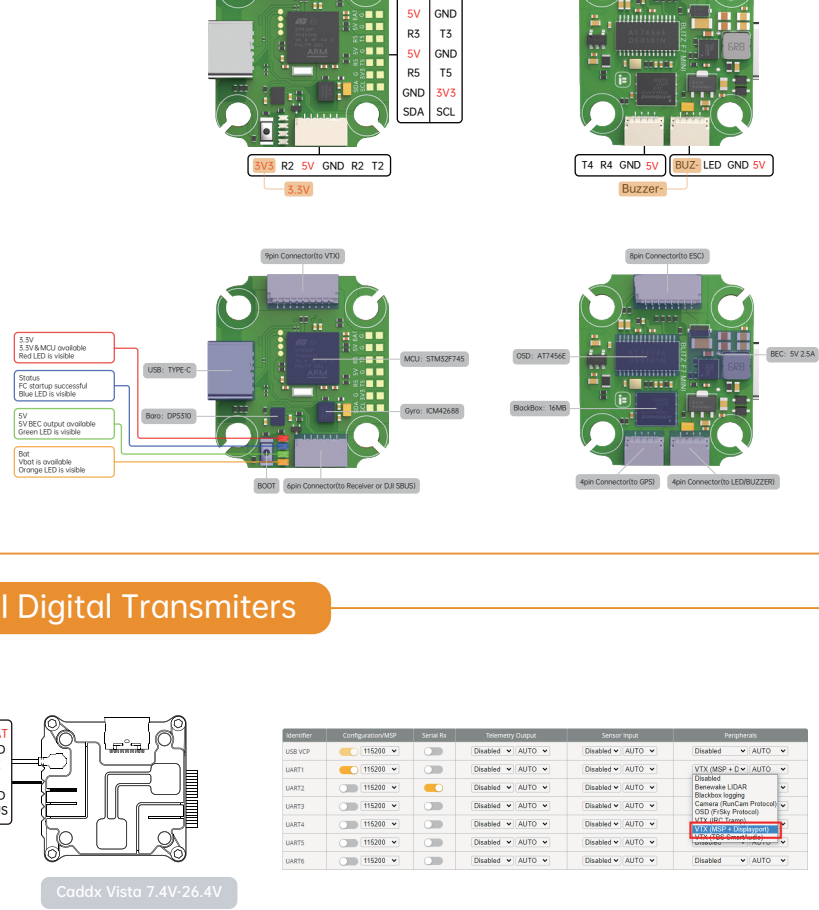


iFlight BLITZ MINI F745 Instructions

Parameters:

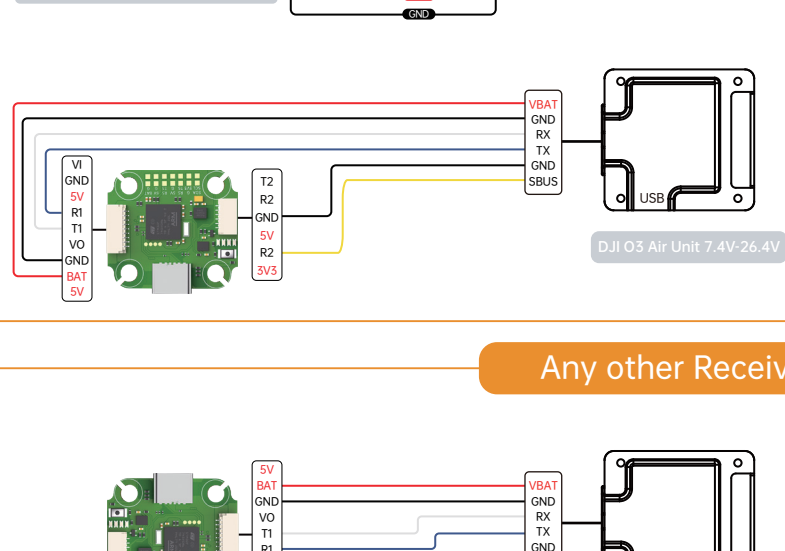
MCU: STM32F745
Gyro: ICM42688
Baro: DPS510
OSD: AT7456E
BEC: Output 5V 2.5A continuous output current, 5A peak current (15 seconds)
BlackBox: 16MB
Uart: 4xUART(UART1, UART2, UART3, UART4, UART5, UART6)
UART1 for VTX HD/Analog
UART2 for Receiver
UART3, UART4, UART5 for GPS or Other devices that require serial ports
UART6 for ESC Telemetry
4xShot/PWM outputs
1xI2C
1xSH1.0 9pin connector for HD VTX/Analog VTX&CAM (5V/BAT/G/V0/T1/R1/SV/G/V1)
1xSH1.0 8pin connector for ESC (R6/CUR/M4/M3/M2/M1/BAT/G)
1xSH1.0 6pin connector for Any Receiver or DJI (3V3/R2/SV/IGR2/T2)
1xSH1.0 4pin connector GPS (T4/R4/G/SV)
1xSH1.0 4pin connector LED&Beeper (BUZ-/LED/G/SV)
4x0402 LEDs for FC STATUS (3.3V Red) / (Start Blue) / (SV Green) / (BAT Orange)
Smartaudio&IRC&Tramp VTX protocol supported
WS2812&5Strip: Yes
Beeper: Yes
Dimensions: 30.5*27mm
Mounting hole: 20*20mm/φ4
Weight: 4.8g

Firmware target:
Betaflight: FLIGHT_BUTZ_F7_AIO
INAV: /
Ardupilot: arduplane.with.bi



DJI Digital Transmitters

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



Receiver configuration table:

Receiver	Configuration/OSD	Serial Rx	Telemetry Output	Serial 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 Mode: Serial (via UART)

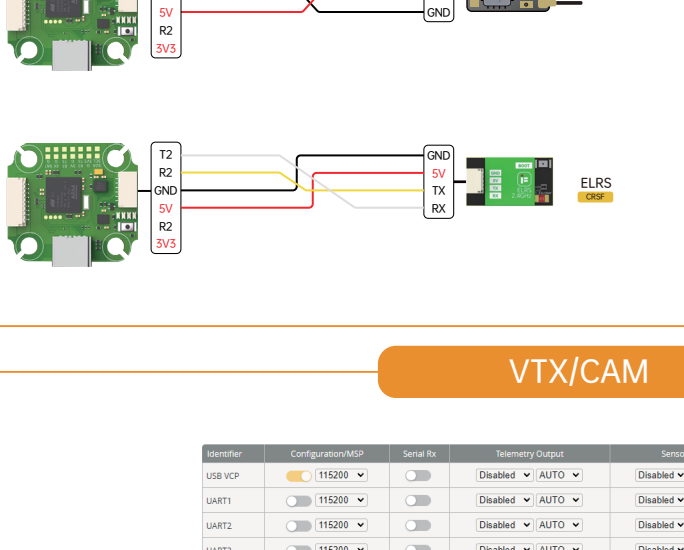
The UART for the receiver must be set to Serial Rx (in the Ports tab)

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

SBUS

- 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 table:

Receiver	Configuration/OSD	Serial Rx	Telemetry Output	Serial 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 Mode: Serial (via UART)

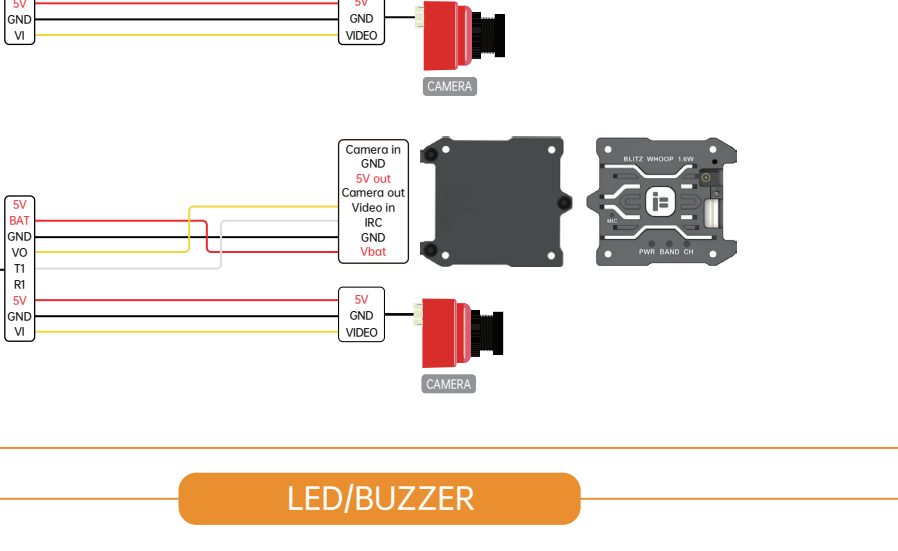
The UART for the receiver must be set to Serial Rx (in the Ports tab)

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

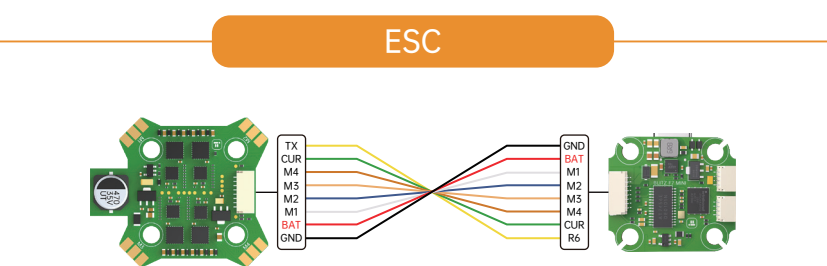
CRSF

Telemetry: TELMETRY

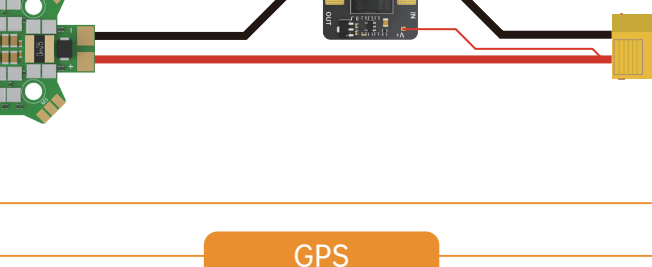
VTX/CAM



LED/BUZZER



ESC

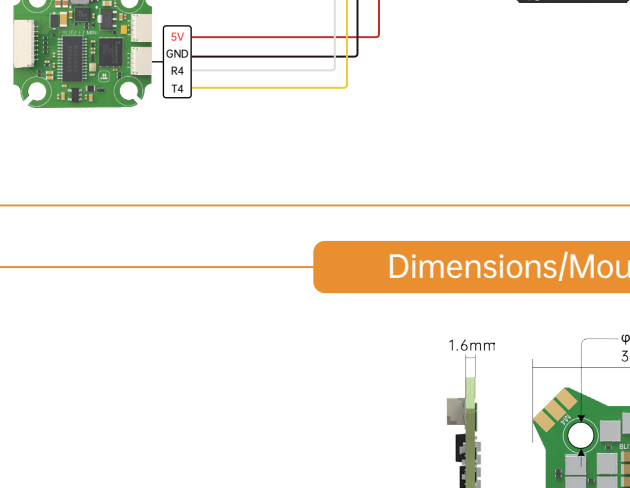


Anti-Spark filter



GPS

SDA/SCL pads can not be remapped to UARTs



Receiver configuration table:

Receiver	Configuration/OSD	Serial Rx	Telemetry Output	Serial 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 Mode: Serial (via UART)

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:

GPS

GPS for navigation and telemetry

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

UBLOX: Auto Baud

Auto Config

Use Galileo

Set Home Point Once

Auto-detect

Ground Assistance Type

Dimensions/Mounting pattern

