

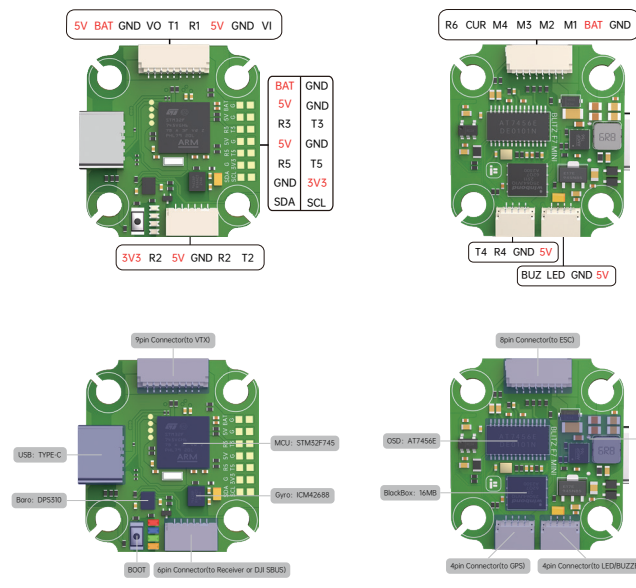
# iFlight BLITZ MINI F745 Instructions

## Parameters:

MOU: STM32F745  
 Gyr: ICM42688  
 Boro: DPS310  
 OSD: AT7456E  
 I1BEC: Output 5V 2.5A continuous output current, 5A peak current (15 seconds)  
 I2BEC: Output 9V 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  
 4xOhse/PWM outputs  
 2x2C  
 1xShD10 9pin connector for HD VTX/Analog VTX&CAM (5V/BAT/GV/VO1T1R1R1S/GV5V)  
 1xShD10 8pin connector for ESC (R6/CLUR/MAM3M2/M1/BAT/G)  
 1xShD10 4pin connector for Any Receiver or DJI (3.3V/R2/SV/GJR2/T2)  
 1xShD10 4pin connector GPS (T4/R4/SV)  
 1xShD10 4pin connector LED8Bepper (BUZ2/LED/GV/SV)  
 4xSmartD LEDs for FC STATUS (3.3V Red) (Start Blue) (5V Green) (BAT Orange)  
 SmartD4oledIRCTramp VTX protocol supported  
 WS2812ledStrip: Yes  
 Bepper: Yes  
 Dimensions: 30.5\*27mm  
 Mounting hole: 20\*20mm/4  
 Weight: 4.8g

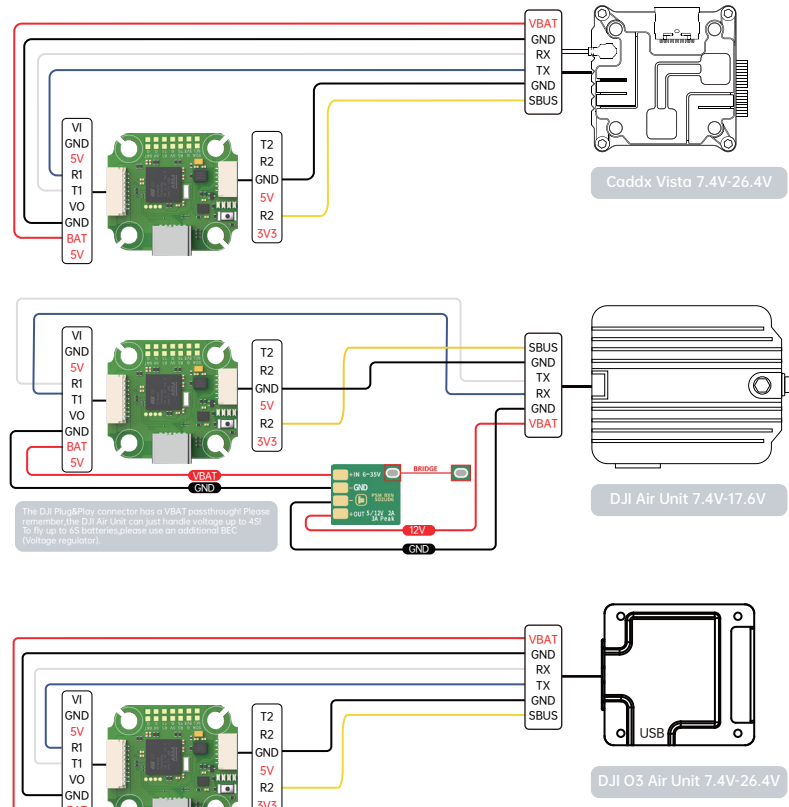
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Firmware target:
BF: IFLIGHT_BLITZ_F7_AIO
INAV: /
Ardupilot: arduplane_with_bl
```

1000



## DJI Digital Transmitters

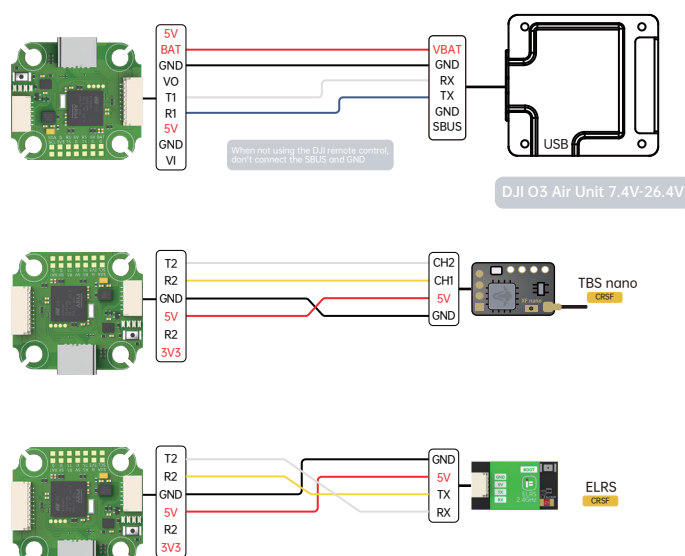
compatible to DJI Air Unit and Caddx Vista

















USB VCP	 115200		Disabled	AUTO		Disabled	AUTO		Disabled	AUTO
UART1	 115200		Disabled	AUTO		Disabled	AUTO		VTX (ESP + D + AUTO)	
UART2	 115200		Disabled	AUTO		Disabled	AUTO		Betterside LEAR	
UART3	 115200		Disabled	AUTO		Disabled	AUTO		Reckless logging	
UART4	 115200		Disabled	AUTO		Disabled	AUTO		Comet (RCA Protocol)	
UART5	 115200		Disabled	AUTO		Disabled	AUTO		ESP (ESP + D + AUTO)	
UART6	 115200		Disabled	AUTO		Disabled	AUTO		VTX (ESP + D + AUTO)	











- 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

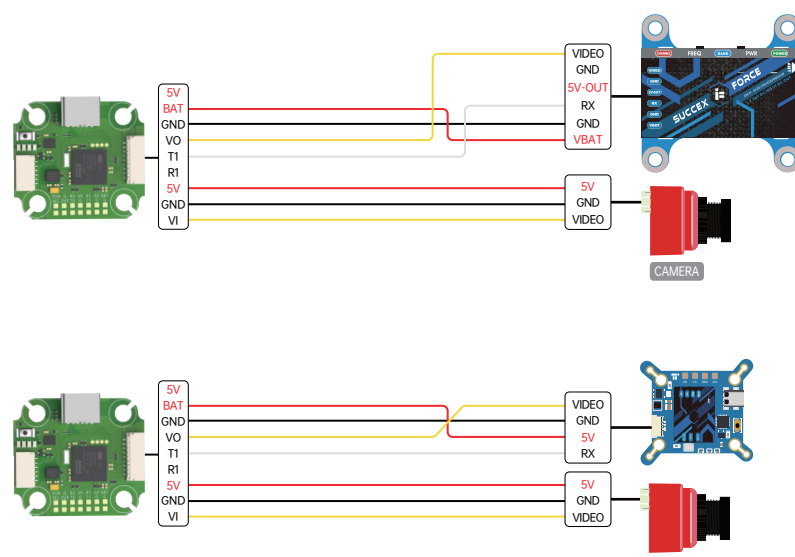
## Any other Receiver



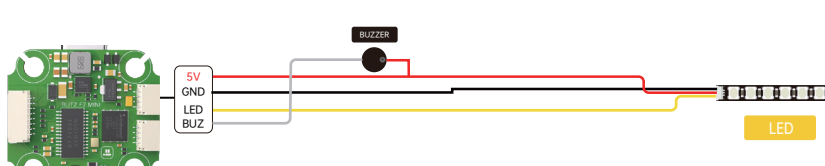
Identifier	Configuration/MSR	Serial Rx	Telemetry Output	Sensor Input	Peripherals
U4R1 VCP	 115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
U4R2	 115200		Disabled / AUTO	Disabled / AUTO	VTX (MPX) + I2C
U4R2	 115200		Disabled / AUTO	Disabled / AUTO	Camera (Blackbox Logging)
U4R3	 115200		Disabled / AUTO	Disabled / AUTO	Camera (Blackbox Protocol OSD / Flylog Protocol)
U4R4	 115200		Disabled / AUTO	Disabled / AUTO	VTX (MPX) + Telemetry
U4R5	 115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
U4R6	 115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO

## VTX/CAM

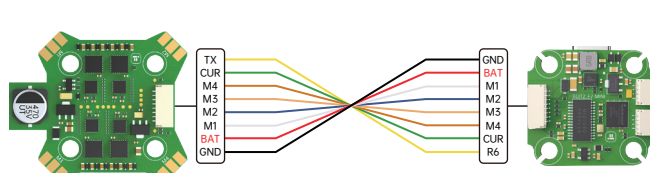
Identifier	Configuration/MSF	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	 115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART0	 115200		Disabled / AUTO	Disabled / AUTO	VTX (IRC Trim) / Disabled
UART2	115200		Disabled / AUTO	Disabled / AUTO	Disabled / <b>RadioLink (RC)</b>
UART3	 115200		Disabled / AUTO	Disabled / AUTO	VTX (ESC Speedlinks) / Camera (RunCam Protocol)
UART4	 115200		Disabled / AUTO	Disabled / AUTO	Beatsuit LEAR / OSD (Frisby Protocol)
UART5	115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO
UART6	 115200		Disabled / AUTO	Disabled / AUTO	Disabled / AUTO



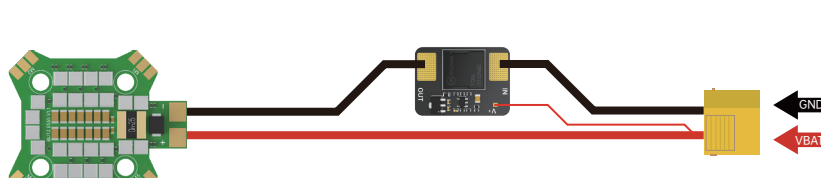
## LED/BUZZER



## ESC



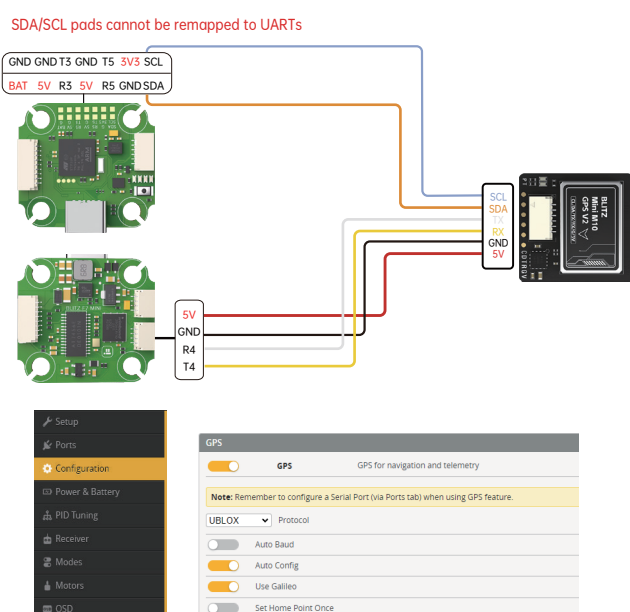
### Anti-Spark filter



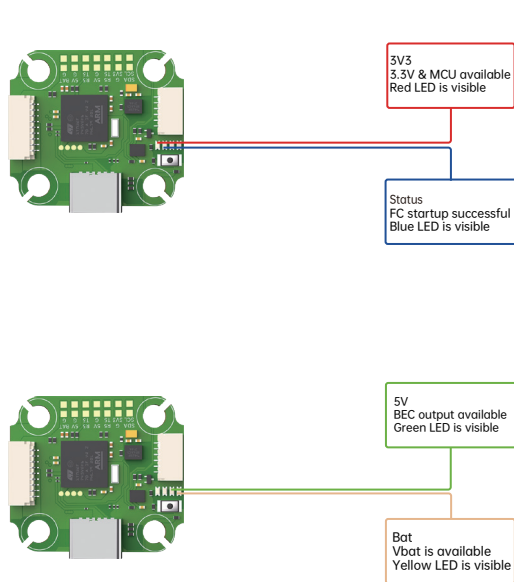
## GPS

Antenna ID	Client power level	Antenna Tx	Antenna Tx mode	Antenna Tx power	Program
ANT01	115500	On	Disabled - AUTO	Disabled - AUTO	Disabled - AUTO
ANT02	115500	On	Disabled - AUTO	Disabled - AUTO	Disabled - AUTO
ANT03	115500	On	Disabled - AUTO	Disabled - AUTO	Disabled - AUTO
ANT04	115500	On	Disabled - AUTO	GPS - 115500	Disabled - AUTO
ANT05	115500	On	Disabled - AUTO	Disabled - AUTO	Disabled - AUTO

UART6	<input type="checkbox"/>	115200	<input type="checkbox"/>	Disabled	AUTO
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## Status indicator



### Dimensions/Mounting pattern

