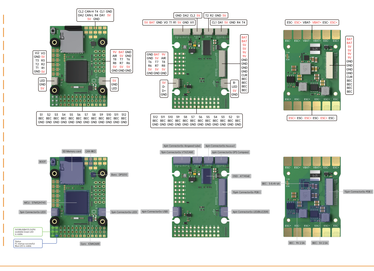
iFlight BLITZ Wing H743 Instructions

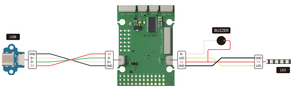
Parameters:

MCU: STM32H743
Gyro: ICM42688P
Baro: DPS310
OSD: AT7456E
VBEC: Output 5V 2.5A continuous output current, 5A peak current 10 seconds (for FC)
FBEC: Output 9V 2.5A continuous output current, 5A peak current 10 seconds (for VTX)
FBEC: Output 10.6A / 6.6A 6.6A continuous output current (for Servo)
(Adjust via pad jumper)
Flash: 128M Bytes
Uart: IPUART(UART1), UART2, UART3, UART4, UART5, UART6, UART10
2-IOC: PCAN
12PWM outputs
UART for VTX HDZero/Analog
UART for Receiver
UART for GPS
UART2, UART4, UART7 for free
8-10bidirPWM outputs
8 Motor
1x20A ESC Ipan connector for HD VTX(Analog VTX)(NOW: 9V/10V)(PWM)(5V)
1x20A 5 Ipan connector for DJI(1.2MM)(NOW:9V/10V)(5V)
1x20A 5 Ipan connector for Any Receiver or DJI (5V)(RX)(TX)(GND)(5V)
1x20A 5 Ipan connector for Camera
1x20A 5 Ipan connector LED(Blinker 12V)(GND)
1x10A(1.0)2.0x 4C 5V/5A DJI (BAT)(1.PIN 2.GND 3.DJI 4.GND 5.Bat)
Smartaudio(BRC)Tramp VTX protocol supported
WS2812(NeoPixel) Yes
Buzzer Yes
Switchable dual camera inputs
Switchable 5V/7.4V/9.6V 4V outputs
Weight: 31.6G
Dimensions: 30x30x7.5mm
Mounting hole: 30.5*30.5mm(4 x 4
Weight: 31g

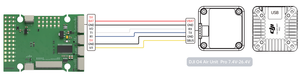
Firmware target:
INAV : IFLIGHT BLITZ Wing H743
Ardupilot : BMI270(SPI)

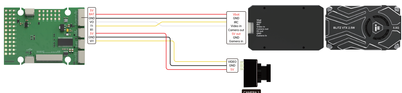


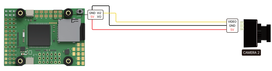
LED/USB/BUZZER

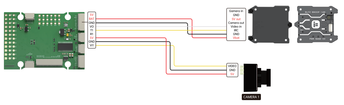


VTX/CAM



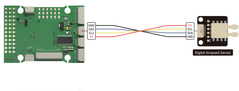


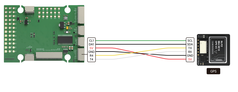


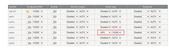


Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	115200		Disabled AUTO	Disabled AUTO	VTX (IRC Tram AUTO
UART2	115200		Disabled AUTO	Disabled AUTO	Disabled Blackbox logging VTX (IRC Tramp) Camera (RunCam Protocol) Renewable LOAR OSD (F-Sky Protocol)
UART3	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART5	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART6	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO

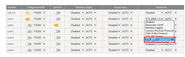
DIGITAL AIRSPEED SENSOR/GPS







DJI Digital Transmiters: SUBS Protocol

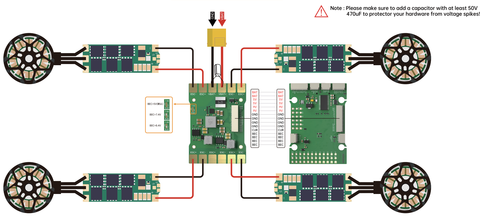


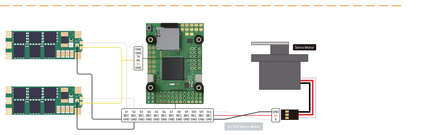
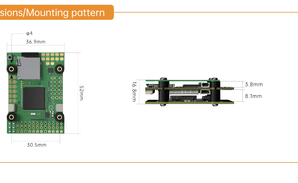
- To enable the air unit OSD under Betaflight 4.4 version, you need to select VTX (MSP+Displayport) in the peripheral port where the air unit signal is connected to the port interface.
- Please check your protocols, otherwise your DJI Radio won't input signals!
  DJI Goggle protocol and Betaflight protocol has to match!
  For lower signalldatency use the SBUS BAUD FAST protocol option on both ends.
- For Betaflight Copy Paste"set sbus_baud_fast=on"into your Bezalfuight Configurator CLI then hit enter.
  Use"save"and hit enter to save the changes.
  Default: sbus_baud_fast=off, Google protocol set to NORMAL

Others Receivers(TBS/ELRS): CRSF Protocol

ESC/Servo Motor

Note : Please make sure to add a capacitor with at least 50V 470uF to protector your hardware from voltage spikes!





Dimensions/Mounting pattern