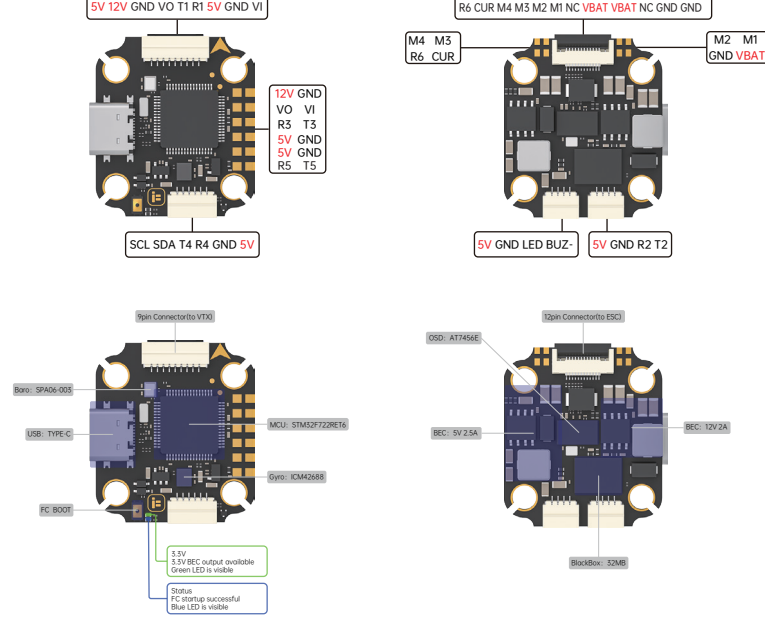


iFlight Borg F7 Mini FC Wiring diagram

Parameters:

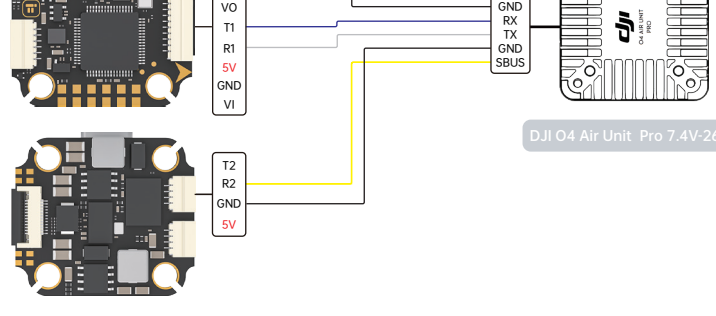
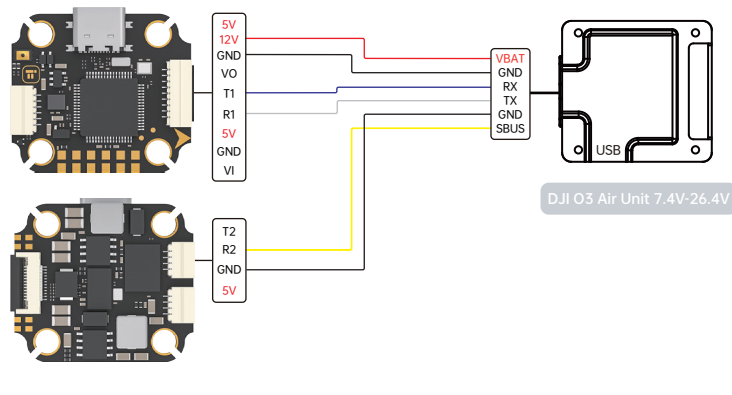
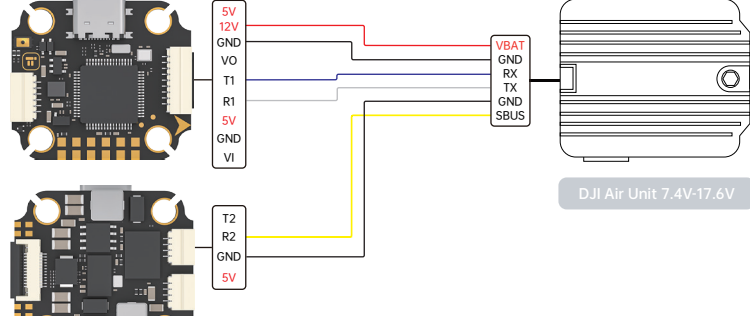
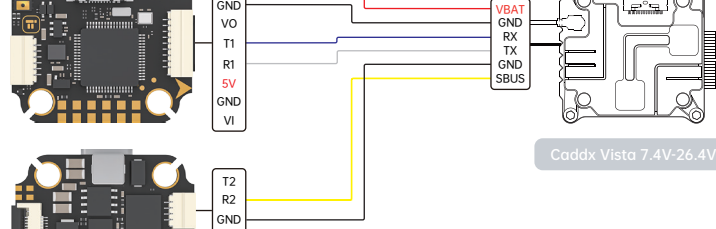
MCU: STM32F722RE6
Gyro: ICM42688
Boro: SPA26-003
OSD: AT7454E
BEC: 5V 2.5A
BEC: 12V 2A
BlackBox: 32MB
UART: 6*UART(UART1, UART2, UART3, UART4, UART5, UART6)
UART1 for VTX HD/Analog
UART2 for Receiver
UART3 for GPS/Receiver
UART4 for GPS
UART5 for GPS/Receiver
UART6 for ESC Telemetry
4x9pin PWM outputs
1x4pin 12pin connector for ESC (R6/CUR/M4/M5/M2/M1/NC/VBAT/VBAT/NC/GND/GND)
1xSH.0 9pin connector for VTX HD/Analog (5V/12V/GND/VO/T1/R1/5V/GND/5V)
1xSH.0 6pin connector for GPS/Receiver (SCL/SDA/T4/R4/GND/5V)
1xSH.0 4pin connector for BUZ/LED (BUZ/LED/GND/5V)
1xSH.0 4pin connector for Receiver (TX2/RX2/GND/5V)
WS2812 ledstrip: Yes
Beeper: Yes
Dimensions: 27*30.6mm
Mount pattern: 20*20mm*4
Weight: 6.8g

Firmware:
Betaflight: iFLIGHT, BLITZ, F722
INAV: iFLIGHT, BLITZ, F722



DJI Digital Transmitters

Firmware Target: iFLIGHT, BLITZ, F722



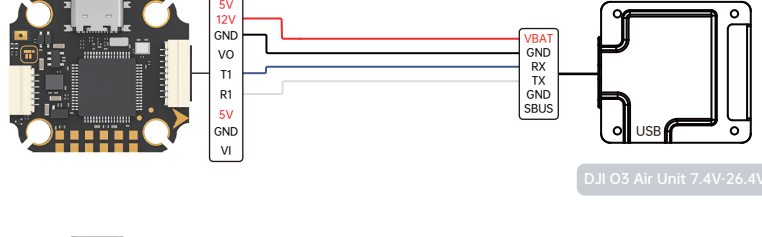
Receiver	Serial (via UART)	Receiver Mode	Serial Receiver Provider
UBlox	115200	Disabled	AUTO
UART1	115200	Disabled	AUTO
UART2	115200	Disabled	AUTO
UART3	115200	Disabled	AUTO
UART4	115200	Disabled	AUTO
UART5	115200	Disabled	AUTO
UART6	115200	Disabled	AUTO

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 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 Google 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

Firmware Target: iFLIGHT, BLITZ, F722

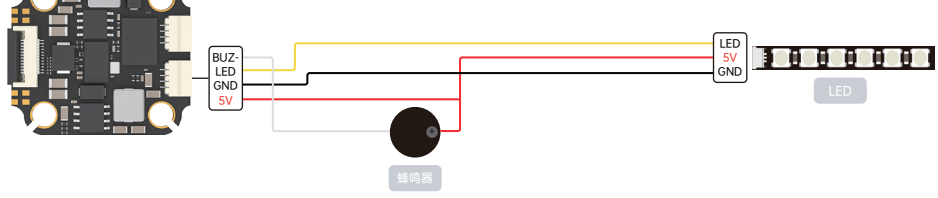


Receiver	Serial (via UART)	Receiver Mode	Serial Receiver Provider
UBlox	115200	Disabled	AUTO
UART1	115200	Disabled	AUTO
UART2	115200	Disabled	AUTO
UART3	115200	Disabled	AUTO
UART4	115200	Disabled	AUTO
UART5	115200	Disabled	AUTO
UART6	115200	Disabled	AUTO

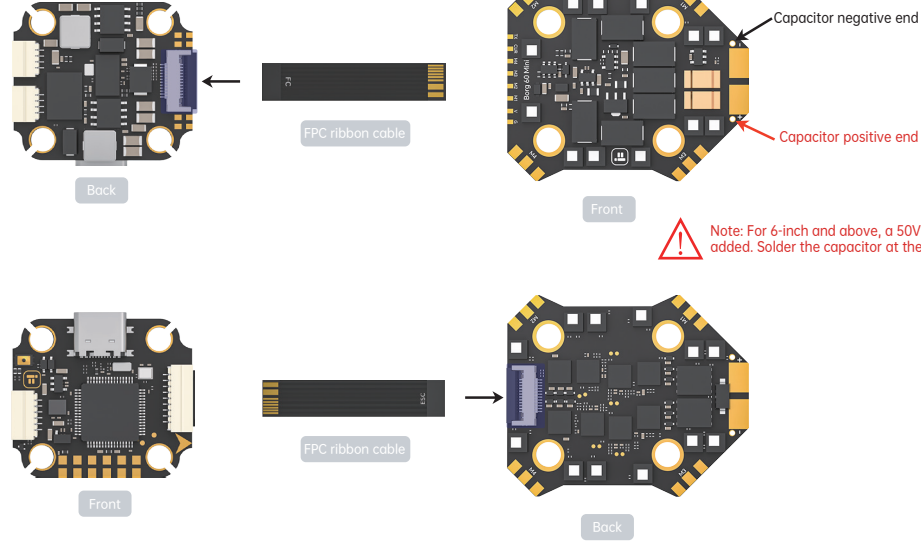
Receiver
Serial (via UART)
Receiver Mode
The UART for the receiver must be set to 'Serial Rx' (in the Ports tab)
Select the correct data format from the drop-down, below:
CRSF
Serial Receiver Provider

Telemetry
TELEMETRY
Telemetry output

LED/BUZZER



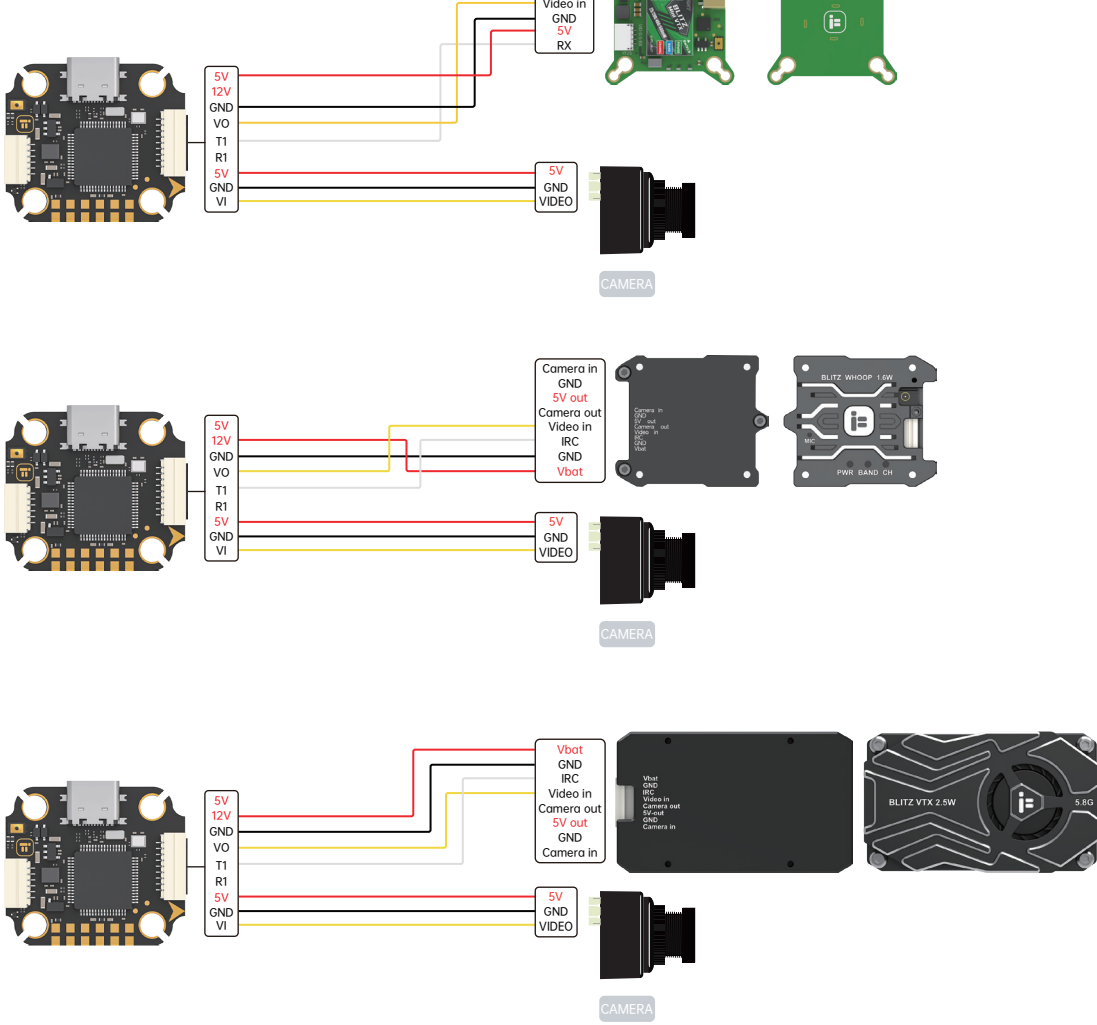
ESC



Note: For 6-inch and above, a 50V 470uF capacitor needs to be added. Solder the capacitor at the position indicated by the arrow.

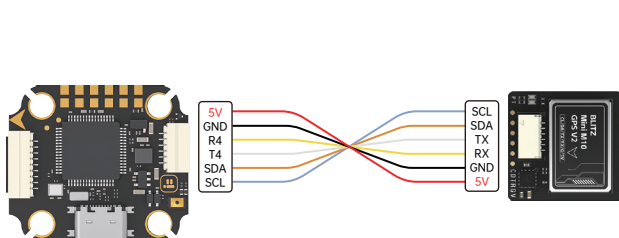
Note: If using ESCs from other brands, please ensure the wiring is connected correctly.
5-inch models do not require an external capacitor to fly, while 6-inch or larger models need to add a 50V 470uF capacitor.

VTX/CAM

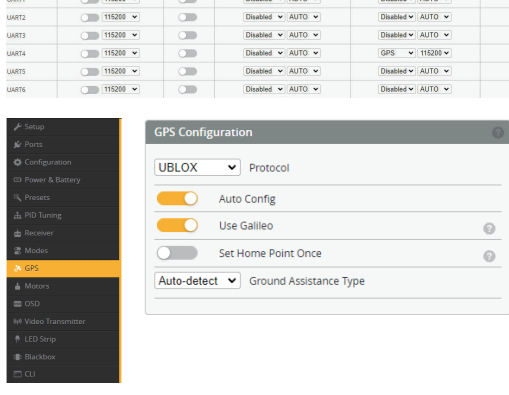


Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200	Disabled	AUTO	Disabled	AUTO
UART1	115200	Disabled	AUTO	Disabled	AUTO
UART2	115200	Disabled	AUTO	Disabled	AUTO
UART3	115200	Disabled	AUTO	Disabled	AUTO
UART4	115200	Disabled	AUTO	Disabled	AUTO
UART5	115200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

GPS



SDA/SCL pads can not be remapped to SCL



Dimensions/Mounting pattern

