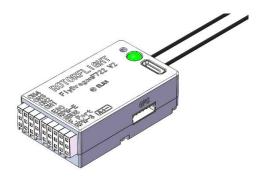
## FlyDragonF722 v2 FBL Specifications\_20231231



**About:** FlyDragon FBL is a flight controller for the Rotorflight open-source project. It features STM32F722 MCU, BMI270 IMU, Built-in ELRS receiver, and 128MB blackbox which enables the full potential of the Rotorflight flight experience in a small package. Rotorflight stems from on Betaflight 4.3 and borrows ideas from Heliflight3D. It shares all the great features Betaflight has to offer plus many new features developed specifically for helicopter platforms.

[Rotorflight open-source FBL]

Link: <a href="https://github.com/rotorflight">https://github.com/rotorflight</a>

[Baidu pan]

Link: https://pan.baidu.com/s/1pF4Tn6WrMd8owsCTOvsVUw

Extraction code: owpb

[Ali pan]

Link: https://www.aliyundrive.com/s/G516rDpKBu6

Extraction code: 35yq

Flight Mode: Acro, Angle, Horizon, Rescue. etc.

## **Hardware Specifications:**

MCU: STM32F722RET6

**IMU:** BMI270

**Black Box:** W25N01G (128MB)

**Baro:** SPL06 (I<sup>2</sup>C2) **LED:** WS2812

Beeper: 5V Active Buzzer

USB: Type-C

UARTS: UART2, UART3, UART5

**I**<sup>2</sup>**C**: I<sup>2</sup>C1

ADC: ADC1 (12S)
Servo Pins: CH1-CH4

RPM Inputs: RPM\_E (ESC RPM Wire), RPM\_S (External RPM Sensor)

Internal Receiver: ELRS Diversity Receiver 2.4G (UART1)

External Receiver: CRSF, S.BUS, F.PORT, GHOST, SUMD, SUMH, IBUS, XBUS, XBUS/RJ01, EXBUS, PPM, MSP, DSM (Needs 3.3V step-

down BEC module) **BEC Voltage:** 5-15V

**5V Power Output:** 5V-1.5A

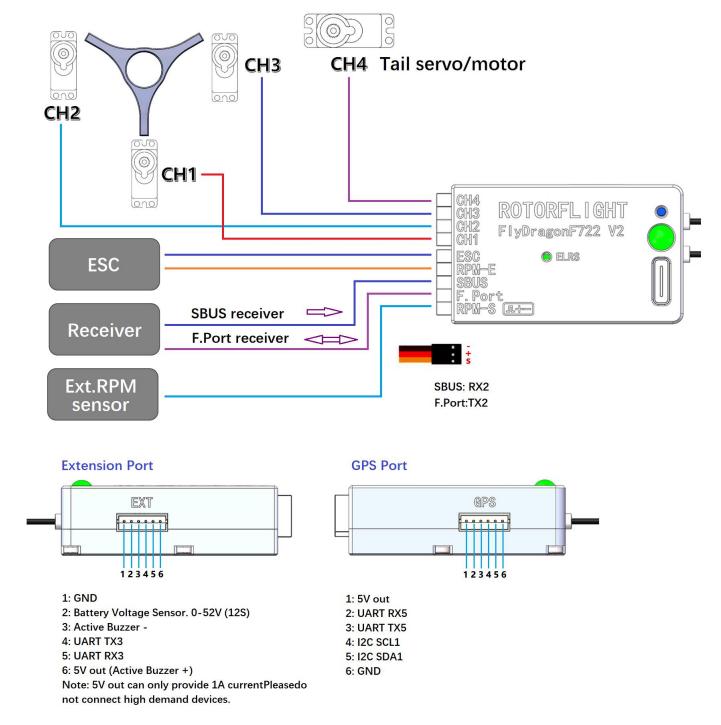
ESC Protocols: PWM, ONESHOT125, ONESHOT42, MULTISHOT, BRUSHED, DSHOT150, DSHOT300, DSHOT600, PROSHOT

ESC Telemetry: BLHeli32, Hobbywing V4, Hobbywing V5, Scorpion, Kontronik, OMPHOBBY, ZTW, APD

**Dimensions:** 45mm x 27mm x 14.5mm

Weight: 27g

## Wiring Diagram



## **Disclamers:**

RC helicopters are dangerous. If operated improperly, it may cause serious damage or even deaths. By using Flydragon F722 V2 FBL and Rotorflight firmware, you hereby agree that you are responsible for any damage it may cause. The authors/contributors of Rotorflight, the designer/distributor of Flydragon FBL shall NOT be held responsible for any direct, indirect, consequential, or special damages arising out of or in any way connected with your use of this product.

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