

FPV Flight Controller

G-FF4

The G-FF4 FPV flight controller is designed for fixed-wing, UAV, and VTOL applications. Powered by the STM32F405 processor with a high-precision IMU and integrated sensors, it delivers accurate flight control.

The G-FF4 supports open-source firmware including Betaflight and INAV. Its compact design fits small frames perfectly.

Built on a premium IC solution, the G-FF4 delivers superior stability and expandability. In addition, the G-FF4 provides connectors rather than soldering points, eliminating the requirement for users to perform manual soldering. It is ideal for both hobbyists and professionals—unlocking ultimate flight freedom!



Application Scenarios

- FPV Racing & Freestyle
- Long-Range Fixed-Wing
- VTOL Survey Drones
- Cine-Whoops

Specifications

MCU	STM32F405RGT6, 168 MHz, 192KB RAM, 1MB Flash
IMU	ICM-42688-P
Barometer	DPS368
Compass	IST8310
OSD	AT7456E (optional)
Blackbox (Data Logger)	NAND Flash 2Gbit
CAN	1x CAN Bus
UART	6x UART
PWM Outputs	9x PWM (8x motor outputs; 1x customize)
ADC Inputs	2x ADC (1x battery voltage; 1x battery current)
I2C Ports	1x I2C
LED Indicators	3 colors LED indicate
USB Interface	USB Type-C with DFU key on board
Static Power Consumption	110mA @ 5V
Input Voltage	3S~6S Lipo input voltage with voltage monitoring
BEC 9V Output	BEC-2 Output: 9V/3A
BEC 5V Output	BEC-1 Output: 5V/3A
BEC 3.3V Output	Linear Regulator, Continuous current: 300mA
Operating Temperature	0°C~55°C
Mounting	30.5 x 30.5mm, M4 hole
Dimensions	36 x 36 x 8 mm
Weight	10 g

Interface Definition

