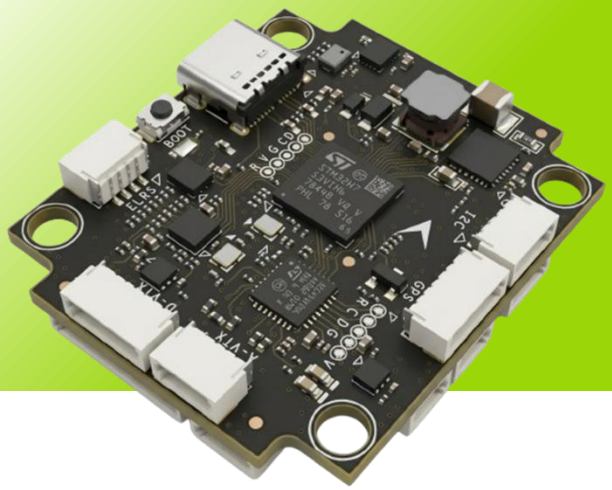
FPV Flight Controller

G-FH7

The G-FH7 FPV flight controller is designed for fixed-wing, UAV, and VTOL applications. Powered by the STM32H753 processor with a high-precision IMU and integrated sensors, it delivers accurate flight control.
The G-FH7 supports open-source firmware including Ardupilot, PX4, Betaflight, and iNAV. Its compact design fits small frames perfectly.
Built on a premium IC solution, the G-FH7 delivers superior stability and expandability. In addition, the G-FH7 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!



Key Features

- STM32H753 Flight Performance
- Supports Leading Open-Source Firmware
- Solder-Free Connector Design
- Built for Fixed-Wing, UAV & VTOL

Specifications

MCU	STM32H753VIH6 (480MHz, 2MB Flash, 1MB RAM)
IMU	Dual IMUs, ICM-42688-P / LSM6DSK320X
Barometer	DPS368
Compass	IST8310
OSD	Software-based analog OSD
Blackbox (Data Logger)	SD card
CAN Ports	1x CAN
UART Ports	7x UARTs (6x connectors, 1x soldering pad)
PWM Outputs	9x PWMs (8x for motor; 1x for user defined)
ADC Inputs	3x ADCs
I2C Ports	1x I2C
LED Indicators	2x LEDs
Ethernet	RMII and PPS by connector (reserved for future use)
USB Interface	1x USB Type-C with DFU key on board
Static Power Consumption	110mA @5V
Input Voltage	Up to 12S Lipo
BEC Output	5V/3A and 12V/3A (Support power-saving mode)
Mounting	30.5 x 30.5mm, M4 hole
Dimensions	36 x 42 x 8.63 mm
Weight	10.6g

Interface Definition

