

# FC-001-AP-FPV

High-Reliability ArduPilot/Betaflight Flight Controller

User Manual



rev: 260319  
Made in Taiwan

## INTRODUCTION

FC-001-AP-FPV is a flight controller designed for FPV drones and other unmanned platforms that need stable control, rich I/O, and reliable onboard sensing. Built on a high-performance STM32H743 (Cortex-M7) with an integrated ICM42688 IMU and MS5611 barometer, it supports dual power input and comprehensive interfaces for FPV integration, including OSD, SD card logging, power monitoring, multiple UARTs, and CAN. Most importantly, FC-001-AP-FPV supports **both ArduPilot and Betaflight**, so you can use the same hardware for freestyle/racing setups or more advanced autonomous and mission-based flight stacks.

## FEATURES

- High-performance STM32H743 processor (ARM Cortex-M7)
- Integrated IMU: ICM42688
- High-accuracy barometer: MS5611
- 64MB Flash for logging
- Dual power input (Battery and USB)
- Supports OSD
- Supports SC Card
- Supports power monitoring
- Number of Serial interface: 6
- Number of PWM I/O: 8
- Battery input voltage: 3S - 8S
- Number of CAN interface: 2
- Number of I2C interface: 2
- Number of ADC interface: 1
- Number of GPS supported: 2
- Supports RC input signals: PPM, SBUS, DSM
- Support Ardupilot and Betaflight