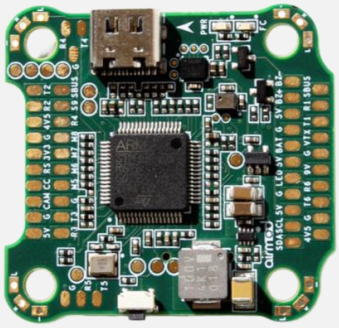


AIRDRONE FC-HPP

HIGH PROCESSING POWER FLIGHT CONTROLLER

Designed & Manufactured in France

- **High Processing Power**
- **2 Camera Video Inputs**
- **2 Built-in IMU for advanced motion detection**
- **Betaflight, INAV & ArduPilot support**
- **Micro SD connector**
- **8 UARTs & I2C available**

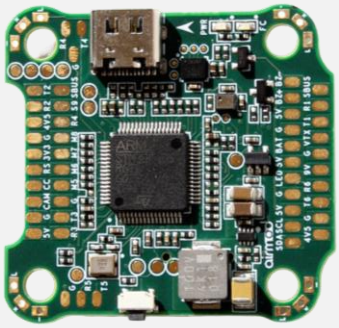


The Airmod Flight Controller FC-HPP is a reliable, designed and manufactured in France flight control solution built around a high-performance processor, combining increased computing power, dual IMU, dual camera inputs, advanced security capabilities, and extensive interface options.

With significantly enhanced processing resources and hardware security mechanisms, the FC-HPP provides greater computational headroom for demanding UAV applications, while maintaining the flexibility, connectivity, and reliability required for advanced flight control, sensing, and mission systems.

The next generation of flight controller built for demanding missions is here, contact us for additional information.

S930024
V1.0



AIRDRONE FC-HPP

HIGH PROCESSING POWER FLIGHT CONTROLLER

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HARDWARE

- **Dual IMU :** (Gyroscope): 2x ST LSM6DSK320X
- **Barometer :** DPS368
- **OSD Chip :** Integrated

MECHANICAL CHARACTERISTICS

- **Mounting Pattern :** 30.5 × 30.5 mm (M4)
- **Dimensions :** 41.6 × 39.4 × 7.8 m
- **Weight :** 10.5 g

CONNECTIVITY & INTERFACES

- **Camera inputs :** 2
- **USB Port** : USB Type-C
- **Blackbox** : Micro SD card connector
- **UARTs** :
  - 7 user-configurable UARTs
  - 1 dedicated telemetry UART
- **I2C Interface** : SDA & SCL pads
- **RSSI Input** : Supported (RS pad)
- **ESC Signal Outputs** :
  - M1–M4 DSHOT (Airmod ESC ready)
  - M5–M8 (pad on front side)

USER I/O & MISCELLANEOUS

- **Betaflight Cam. Cont. Pad :** Supported
- **DFU Button :** Available
- **Buzzer Output** : BZ+ / BZ- pads (5V)
- **LED Pads** : 4
- **Betaflight LED Support** : WS2812 compatible
- **PWM Output**: 1

RADIO & VIDEO COMPATIBILITY

- **Radio Receiver Protocols** : SBUS, CRSF
- **Video Transmitter Support** : Compatible with analog and digital video transmission systems
- **Air Unit Connection** : Direct soldering

POWER

- **Current Sensor Input** : Supported
- **Power Input** : 3S–8S LiPo
- **Power Output**
  - **3.3V Output** : Up to 500 mA
  - **5V Output** : Up to 3 A
  - **9V Output** : Up to 3 A

FIRMWARE

- **Firmware** : Betaflight, INAV, ArduPilot

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