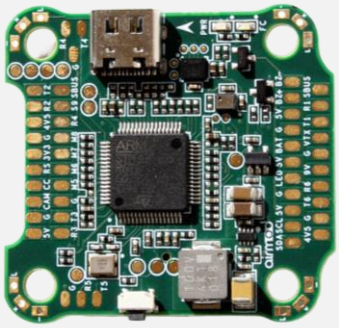


AIRDRONE FC-1H562

STM32H562 FLIGHT CONTROLLER

Designed & Manufactured in France

- **Built on STM latest-generation 32-bits architecture**
- **High Processing Power**
- **Secure Boot & Hardware Security**
- **Betaflight, ArduPilot ***
- **Micro SD connector**
- **6 UARTs & I2C available**
- **Built-in OSD chip & IMU & Barometer**

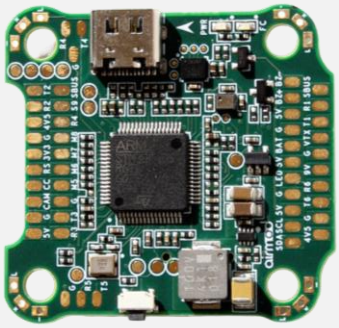
*** Porting in progress**

The Airmod Flight Controller FC-1H562 is a reliable, **designed and manufactured in France** flight control solution combining a next-generation STM32H562 processor, integrated sensors, advanced security capabilities, and extensive interface options.

Featuring increased computing resources and enhanced hardware security mechanisms, it provides a future-ready platform for demanding UAV applications requiring high performance, system integrity, and long-term scalability.

Accessories available upon request.

S930009
V1.5



AIRDRONE FC-1H562

STM32H562 FLIGHT CONTROLLER

Designed & Manufactured in France

PROCESSING & SENSORS

- **MCU :** STM32H562 (Cortex-M33)
- **IMU :** (Gyroscope): 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

- **USB Port** : USB Type-C
- **Blackbox** : Micro SD card connector
- **UARTs** :
  - 5 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)
- **Bluetooth & Wi-Fi** : not supported

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–6S LiPo
- **Power Output**
  - **3.3V Output** : Up to 500 mA
  - **5V Output** : Up to 3 A
  - **9V Output** : Up to 3 A

FIRMWARE

- **Firmware : (porting in progress)**
  - Betaflight, ArduPilot

SECURITY

- **Secure boot**
- **TrustZone Technology**
- **Hardware Root of Trust**
- **Secure Firmware update and storage**

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