

# FCU-BRAVO

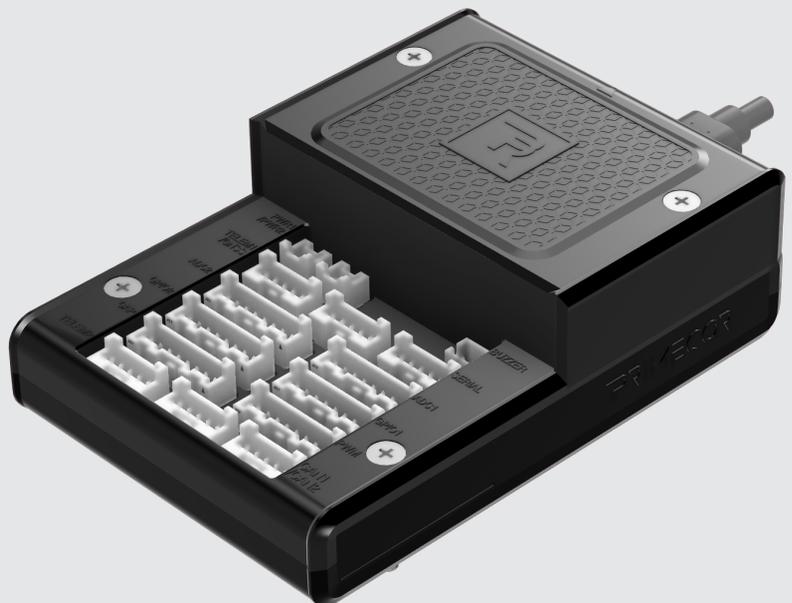
AUTOPILOT FOR LIGHT OR SINGLE-USE UAS SAIL II

## EFFICIENT, AUTOPILOT FOR LIGHTWEIGHT PLATFORMS

The **FCU-BRAVO** by PrimeCor Systems is a compact and lightweight autopilot solution, optimized for low-weight UAS platforms. It delivers advanced navigation and control capabilities while minimizing cost, size and power consumption.

This solution is tailored for platforms where simplicity and efficiency are key with the reliability of an architecture with independent monitoring.

- 】 **LIGHT** UAS
- 】 **SINGLE-USE**  
OR ATTRIBUTABLE PLATFORMS
- 】 **HIGH** INTEGRITY
- 】 **LOW POWER** AND WEIGHT



## **NAVIGATION, GUIDANCE AND CONTROL CAPABILITIES**

### **PLATFORM CONTROL**

- *Conventional helicopters configurations.*
- *Fixed-wing aircraft.*
- *Multirotor platforms.*
- *Hybrid multirotor / fixed-wing aircraft.*

### **GUIDANCE AND MISSION MANAGEMENT**

- *Waypoint-based navigation.*
- *Automatic Take-Off and Landing (ATOL) capabilities.*
- *Nominal and contingency flight management.*
- *Geofencing and geocaging.*
- *Integrated mission management and emergency recovery logic.*

### **NAVIGATION AND SENSOR FUSION**

- *GPS-INS sensor fusion, with limited operation during temporary GPS loss.*
- *RTK capable with ground reference station.*

### **INTERFACES AND PROTOCOLS**

The **FCU-BRAVO** follows **PrimeCor Systems** philosophy of interface flexibility, allowing fast and straightforward integration even in lightweight platforms.

- *Configurable interfaces to match UAS architecture.*
- *Support for standard industry protocols.*
- *Adaptable to specific aircraft integration requirements.*

*An ideal solution when fast integration, low weight and simplicity are critical.*



## TECHNICAL SPECIFICATIONS

### SENSORS

- Gyro (x2): 2,000 deg/s
- Accel (x2): 16g
- Accuracy roll & pitch: 0.5 deg RMS
- Accuracy yaw (external Magnetometer): 1.0 deg RMS
- Pressure altitude accuracy: <10m
- Velocity accuracy: depending on GNSS module
- Position accuracy: depending on GNSS module

### MECHANICAL & ELECTRICAL

- Temperature range: -40 to 50°C
- IP 54 – enc. ABS
- Weight: 95g
- Dimensions: 97x66x33mm
- Certification: CE, RoHS
- Input Voltage: 6 to 28V
- Power consumption: 3W

### INTERFACES

- 12x ADC
- 2x CAN BUS
- 12x CAP-PWM
- 14x GPIO
- 1x RS232 / RS485
- 3x UART



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