

**FLIGHT CONTROL UNIT**  
**BRAVO**  
FOR LOW-RISK MISSIONS AND SINGLE-USE UAS SAIL II

The **Flight Control Unit 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.

**EFFICIENT FLIGHT CONTROL FOR LIGHTWEIGHT PLATFORMS**

**PrimeCor Systems** can accommodate the integration requirements of complex and certifiable UAS platforms.

】 **SINGLE-USE**  
OR ATTRITABLE 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 **Flight Control Unit 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

### INTERFACES

- 2x CAN BUS
- 2x RS485
- 2x RS232
- 1x GNSS
- 1x Ethernet
- 6X GPIO / PWM
- 4X GPIO
- 6X ADC
- 1x UART

### 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



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# PRIMECOR

