



CONTROL SYSTEM FOR LOITERING MUNITION

High performance flight control system for Loitering Munition applications.

Single board layout, embedding computer vision for GNSS denied navigation and target follow.

COST-EFFECTIVE LOITERING MUNITION



SMALL & LIGHTWEIGHT

The OEM design with a high level of miniaturization fits all kinds of aircraft



GNSS DENIED

Embedded SLAM technology for aircraft flight in GNSS denied operations



TARGET FOLLOW

Computer vision algorithms for target selection on screen and auto-follow







MAIN FEATURES

All Vehicles Plane | Multi | Heli | Others

100% Autonomous Mission & payload

Manual Control On pilot demand | Fly-by-camera **Embedded System** Sensors | GNC | Computer vision

Functions Autopilot | Vision navigation | Target follow **Internal Sensors** IMU | Magneto | Barometer | Pitot | GNSS I/O Ports PWM | GPIO | Analog | CAN Bus | RS232

Communications LOS | Satcom | Serial port

FOR LOITERING MUNITION

Autopilot Fully autonomous flight control

GNSS Denied Vision based navigtion **Target Identification** Target selection & follow

Terminal Impact User selectable angle of impact

Payload Activation Payload triggering | Safety mechanisms Data Wipe Onboard data erase prior to impact

Encryption Data encryption Single Use Up to 25h operation

USER PROGRAMABLE

Model based design | Customization | PID level **Programs**

Phases Takeoff | Landing | Cruise | Impact | More **Automations** Failsafe | Phase change | Operation | Payload **Navigation** Sensor mix | Kalman filter | External sensors

Peripherals Gimbal | Altimeter | Cameras | Others Compatibility Custom protocols | Mission computer

SAFETY & ROBUSTNES

Design Standards Strict design standards | DO178-C | DO254

Failsafe Custom failsafe routines

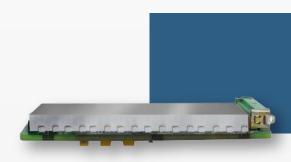
Protections ESD, overtemperature, short circuit, RP

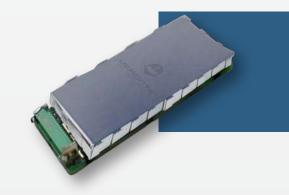
Reliability ATR, DDP & DoD Certification ISO9001 Quality

GENERAL

Power Input 6.5 -36VDC -40 to 60°C **Temperature**







[P008593] Veronte Autopilots: LM 1.0





