



LM 1.0

AUTOPILOTS

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 navigation
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 PROGRAMMABLE

Programs	Model based design Customization PID level
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
Temperature	-40 to 60°C

