



EMBENTION

Enabling drones
to populate our skies



1x 4.12

AUTOPILOTS

CONTROL SYSTEM FOR AUTONOMOUS VEHICLES

Fully autonomous control for UAVs,
UGVs, USVs and tripulated eVTOLs.

High reliability and certification in
compliance with DO178-C, DO254 and
DO160-G aviation standards up to DAL B.

HIGH RELIABILITY CONTROL SYSTEM



USER PROGRAMMABLE

Model-based design tools
enable custom programs
and control logics.



CERTIFICATION

Aircraft certification:
DO178-C, DO254, DO160-G,
ESS, ATR, STANAG, etc.



SENSE & AVOID

Embedded ADS-B or
Remote ID and support for
external detection means.



VERONTE
AUTOPILOTS



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MAIN FEATURES

All Vehicles	Plane Multi Heli Autogiro VTOL USV +
100% Autonomous	Mission & payload Assisted / manual / auto
Advanced Control	Adaptative Curve-based Fly-by-camera
Sense & Avoid	Radar Lidar Camera ADS-B Remote ID
All-in-one Box	Sensors FTS Comms ADS-B or Remote ID
Internal Sensors	2x IMU 2x Magneto 2x Barometer 1x Pitot
Positioning	2x GNSS RTK GNSS Heading

USER PROGRAMMABLE

Programs	Model based design Customization PID level
Phases	Takeoff Landing Cruise Hover Transition +
Automations	Failsafe Phase change Operation Payload
Navigation	Sensor mix Kalman filter External sensors
Pheripherals	Gimbal ADS-B Altimeter Cameras Others
Compatibility	Custom protocols Mission computer

I/O

Ports	8x PWM/GPIO 5x ADC
Busess	2xCAN 1xI2C 1xRS232 2xRS485 2xUART 1xCAN-FD
Expandible	Veronte CEX Up to 32 actuators

COMMUNICATIONS

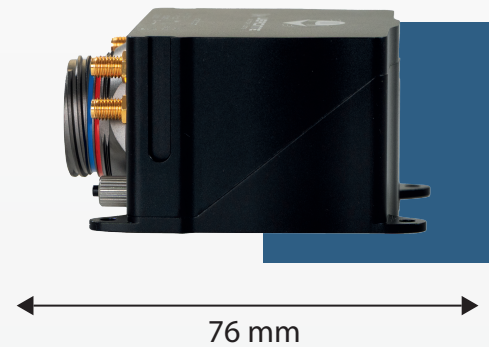
Internal LOS	2.4Ghz 100mW Configuration Tuning
Internal BLOS	LTE Cloud communications Worldwide
External	LOS Satcom 4G/5G

SAFETY & CERTIFICATION

Certification Ready	DO178C DO254 DAL-B DO160
Failsafe	Dissimilar supervisor FTS
Protections	ESD, Overtemperature, Short Circuit, RP
Robust Manuf.	ATR, DDP & DoD ESS & Calibration in all units

GENERAL

Power Input	8 - 54VDC 5 - 15W Redundant power input
Construction	Anodized aluminium IP67
Temperature	-40 to 65°C
Weight	209g including ADS-B / 208g Remote ID



26 MARCH



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[P011118] Veronte Autopilots: 1x - Remote ID 4.12
[P011117] Veronte Autopilots: 1x - ADS-B 4.12