



EMBENTION

Enabling drones
to populate our skies



4x 1.8

AUTOPILOTS

REDUNDANT FLIGHT CONTROL SYSTEM

Designed for the control of critical UAVs, eVTOLs and autonomous vehicles.VV

Includes 3 complete autopilot cores with DAL-B compliance for DO178-C, DO254 and DO160-G. Optional 4th core.

HIGH RELIABILITY CONTROL SYSTEM



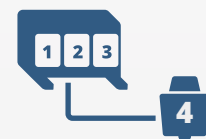
USER PROGRAMMABLE

Create custom programs and control logics using model-based design.



CERTIFICATION

DO178-C, DO254, DO160-G, ESS, ATR, STANAG ... for aircraft certification.



4X REDUNDANT

3 internal autopilot cores and 4th external core with no single point of failure.



VERONTE
AUTOPILOTS



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MAIN FEATURES

All Vehicles	Plane Multi Heli Autogiro VTOL USV
100% Autonomous	Mission & payload Assisted / Manual / Auto
Fly-by-wire	Onboard or remote joystick
High Reliability	Full redundant Fail operational
Sense & Avoid	Radar Lidar Camera ADS-B Remote ID
Internal Sensors	9x IMU 9x Magneto 6x Barometer 3x Pitot
Positioning	6x GNSS RTK GNSS Heading
Communications	Internal LOS, LTE External LOS, LTE, Satcom

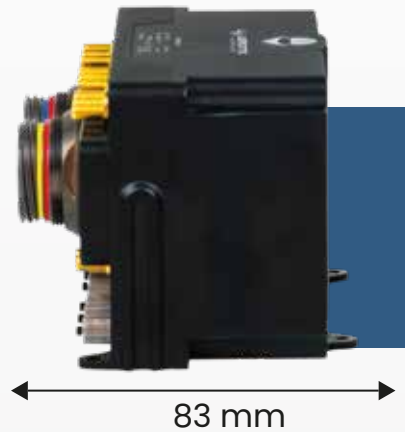


USER PROGRAMMABLE

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	PWM/GPIO ADC
Buses	CAN I2C RS232 RS485
Auxiliary	PWM I2C RS232 RS485 ADC ARINC
Expandible	Veronte CEX Up to 32 actuators



SAFETY & CERTIFICATION

Redundancy	3 Internal autopilot cores 4th External
Customizable	Configurable voting logics
Robustness	No single point of failure
Certification	DO178-C DO254 DAL-B DO160-G
Failsafe	Dissimilar supervisor FTS
Protections	ESD short Circuit RP
Robust Manuf.	ATR, DDP & DoD ESS & Calibration in all units

GENERAL

Power Input	6.5 – 36VDC Redundant power input
Power	17– 47W
Temperature Range	–20 to 70°C
Weight	615g 631g including ADS-B/Remote ID



26 JULY

*[P006984] Veronte Autopilots: 4x – w/o DAA 1.8"

*[P006146] Veronte Autopilots: 4x – Remote ID 1.8

*[P006147] Veronte Autopilots: 4x – ADS-B 1.8

*Delivered in a restricted configuration with limited operational accuracy and range.



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