



AUTOPILOT 4x

Redundant Flight Control System for autonomous vehicle control. Compatible with all aircraft, it is designed to operate in critical environments where failure is not an option, regardless of whether the pilot is on board or on the ground.

It incorporates 3 complete Veronte Autopilot 1x cores and connectivity for a 4th external module. All this, with no single point of failure and managed by a dissimilar arbiter that includes customisable voting algorithms.



VERONTE AUTOPILOTS

APPLICATIONS

01 | UAM / eVTOL



02 | Populated Areas



03 | MALE/HALE



04 | Restricted Airspace



05 | Critical Operations



06 | Law Enforcement



Main

FEATURES



FLEET
MANAGEMENT



FLY-BY-WIRE
CONTROL



FAIL
OPERATIONAL



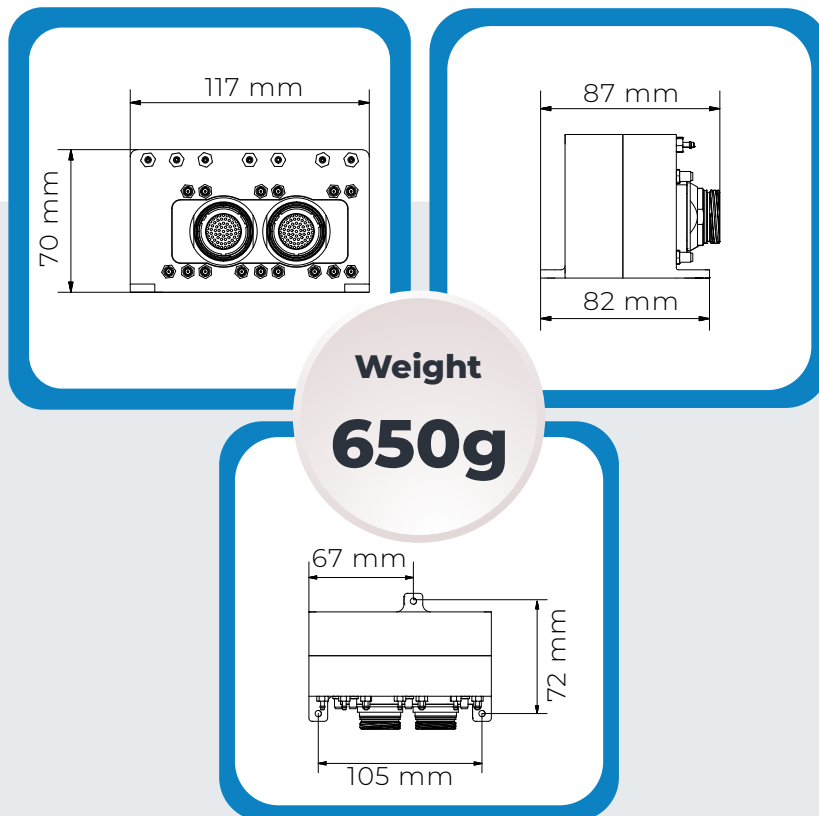
4X
REDUNDANT



CERTIFICATION
SUPPORT



Any vehicle	eVTOL, MALE, HALE Fixed-wing, multicopter, heli, autogiro
Autonomous control	100% Autonomous Fly-by-wire & remote control on demand
Redundancy	3x Autopilot cores 4th External core No single point of failure
Certification datapacks	DO178C Software DO254 Hardware DAL-B DO160 & MIL-STD-810 Environmental
User customizable	Automatic routines Custom programs Configurable control phases
Sensors	9x IMU 6x Magnetometer 6x Barometer 3x Pitot 6x GNSS External
Advanced GNSS	RTK & RTCM GNSS-based attitude estimation GPS, GLONASS & BeiDou
Device compatibility	Gimbal Transponder GNSS & sensors Cargo release Others
Mission computer	VCP protocol USB & Serial communications
BLOS & UTM	SATCOM or 4G Cloud connectivity Fleet management
Sense & avoid	Radar, LIDAR, vision or ADS-B input
Safety	Custom failsafe Dissimilar supervisor ATR, DDP & DoD documents
Manufacturing	Environmental Stress Screening (ESS) & Calibration in all units
I/O Interfaces	PWM / GPIO, CAN Bus, DIGIN, ADC, I2C, RS232, RS485...



PN
 [VEAP071] External Radio V4.5
 [VEAP057] 1x2.4GHz + 1x900MHz + 1x400MHz & 900MHz + BLOS Datalink V4.5
 [VEAP070] 1x2.4GHz + 2x400MHz & 900MHz + BLOS Datalink V4.5
 [VEAP089] 1x900MHz + 2x2.4GHz + BLOS Radio V4.5

[VEAP069] 2x2.4GHz + 1x400MHz & 900MHz + BLOS Datalink V4.5
 [VEAP090] 2x900MHz + 1x2.4GHz + BLOS Radio V4.5
 *Others on request

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