



# DRX 1.0

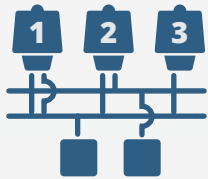
# AUTOPILOTS

## DISTRIBUTED REDUNDANT FLIGHT CONTROL SYSTEM

Fly-by-wire and automatic control for eVTOLs and autonomous vehicles.

Distributed redundancy with DO178-C, DO254 and DO160-G, compliance for enabling aircraft certification.

## eVTOL & UAM FLIGHT CONTROLLER



### DISTRIBUTED REDUNDANCY

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



### CERTIFICATION

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



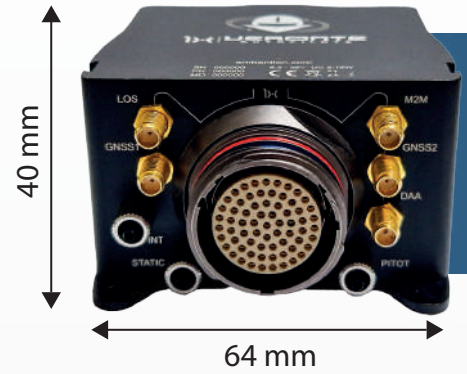
### USER PROGRAMMABLE

Model-based design technology to generate custom programs and GNC



## MAIN FEATURES

All Vehicles	Plane   Multi   Heli   Autogiro   VTOL   USV   +
eVTOL Control	Mission & payload   Assisted / manual / auto
Fly-by-wire	Onboard joystick & display
High Reliability	Full redundant   Fail operational
Sense & Avoid	Radar   Lidar   Camera   ADS-B   Remote ID
Internal Sensors	6x IMU   6x magneto   6x barometer   3x pitot
Positioning	9x GNSS   RTK   GNSS heading
Communications	3x LOS & 4G   External LOS, LTE, Satcom

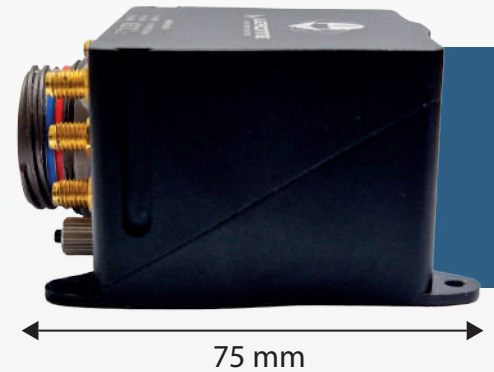


## USER PROGRAMABLE

Programs	Model based design   User Programs
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   STANANG

## I/O

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



## SAFETY & CERTIFICATION

Redundancy	3 Autopilot cores   Distributed redundancy
Fail-operational	Distributed management boards
Customizable	Configurable voting logics
Robustness	No single point of failure   Redundant bus
Certification	DO178-C   DO254   DO160-G

## GENERAL

Power Input	6.5 – 36VDC   Redundant power input
Power	3x 5-15W
Temperature Range	-40 to 60°C
Weight (per core)	198g



[P008285] Veronte Autopilot DRx - w/o DAA v4.10  
 [P008625] Veronte Autopilot DRx - Remote ID v4.10

[P008626] Veronte Autopilot DRx - ADS-B v4.10