



MAGNETOMETER AND I/O EXPANSION MODULE

High performance magnetometer for autonomous vehicle installation.

Includes I/O expansion capabilities and advanced network management: CAN Bus isolation, data concentrator, etc.

UAV & eVTOL AIRCRAFT COMPASS



3- AXIS **MAGNETOMETER**

Outstanding stable performance over time and temperature.



I/O EXPANSION **MODULE**

Permits to extend the number of I/O ports in Veronte Autopilot.



CAN BUS MANAGEMENT

CAN Bus isolator, data concentrator and sub-network management.











MAIN FEATURES

Magnetometer 3-Axis | HMR 2300 drop-in replacement

I/O Expander Extend the number of I/O

Data Concentrator CAN Bus to serial, digital input, analog, etc. Message filtering | Sub-network generation Network Bus protection Failure detection | Babbling idiot failure

Device isoaltion **Bus Isolation**

Wire Optimization Long distances | Protection | Robust bus Device Interface Sensors, actuators, ESC, ADS-B, Payload, etc.

I/O EXTENSION & DATA INTERFACES

2x CAN Bus | 2x RS232 | 1x RS485 | 1x I2C **Buses** Digital I/O 4x 5VDC PWM | 2x 5VDC ECAP | 1x EQEP

Analog I/O 2x5V | 1x12V | 1x36V

CAN Bus Dual redundant | Galvanic isolation

Terminal resistor Software configurable

MAGNETOMETER SENSOR

Magneto-inductive **Technology**

Axis 3-Axis

 $\pm 1100 \mu T$ Range

Noise 15 nT Gain 75 µT

Linearity 0.5% (typical)

Sensitivity 13 nT Max Sample Rate 147 Hz

ROBUST CONSTRUCTION

Circuit protections ESD, Overtemperature, short Circuit

Reverse polarity protection Power protection

Connector 34 Pin | Latch | Robust to vibrations

Material Anodized aluminium

Temperature range -40 to 60°C

100g | 50g OEM Weight

POWER

6 – 35VDC | Redundant power input **Power Input**

3W Power















