



# **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.

Network Message filtering | Sub-network generation

Bus protection Failure detection | Babbling idiot failure

Bus Isolation Device isolation

Wire Optimization Long distances | Protection | Robust bus

Device Interface Sensors, actuators, ESC, ADS-B, Payload, etc.

# I/O EXTENSION & DATA INTERFACES

Buses 2x CAN Bus | 2x RS232 | 1x RS485 | 1x I2C
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**

Technology Magneto-inductive

Axis 3-Axis
Range  $\pm$  800  $\mu$ T
Noise 15 nT
Gain 75 LSB/ $\mu$ T

Linearity 0.5% (typical)

Sensitivity 13 nT Hysteresis 15nT

#### **ROBUST CONSTRUCTION**

Circuit protections ESD, Overtemperature, short Circuit

Power protection Reverse polarity protection

Connector 34 Pin | Latch | Robust to vibrations

Material Anodized aluminium

Temperature range -40 to 60°C

Weight 69g | 17g OEM

# **POWER**

Power Input 6 – 36VDC | Redundant power input

Power 3W

















