



I/O EXPANSION AND BUS **MANAGEMENT UNIT**

High reliability I/O expansion board for Veronte Autopilot powered vehicles.

Includes network management and bus protection functionalities: CAN Bus isolation, data concentrator, etc.

ADVANCED I/O MANAGEMENT



I/O EXPANSION **MODULE**

Extend the I/O ports in Veronte Autopilot: RS232, RS485, PWM, ARINC, etc.



NETWORK OPTIMIZATION

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



BUS PROTECTION

Message filtering, device disconnection, babbling idiot failure detection, etc.











MAIN FEATURES

I/O Expansion Increase the number of input and outputs CAN Bus to serial, digital input, ARINC, etc **Data Concentrator** Network Message filtering | Sub-network generation Wire Optimization Long distances | Robust to interferences **Bus Protection** Failure detection | Babbling idiot failure

Bus Isolation Device isolation

Certification DO178-C, DO254 & DO160-G compliant Device Interface Sensors, actuators, ESC, ADS-B, payload, etc.

I/O Extension & Data Interfaces

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

ARINC 429 5x Rx | 1x Tx

8x 5V PWM | 4x 5V ECAP Digital I/O

Analog Inputs 2x 3.3V | 2x 5V | 2x12V | 2x36V

Power Outputs 1x 3.3VDC (100 mA) | 1x 5VDC (100mA) **CAN Bus** Dual redundant | Galvanic isolation

CAN Terminal External terminal resistor

Network Management

Data Concentrator I/O to CAN bus | I/O to serial

Sub-Networks Advanced architectures | Bus load reduction

Isolation Peripheral isolation

Failure Detection Babbling idiot failure | Bus failures

Filtering Message filtering

Redundancy Voting algorithms | Redundancy management

ROBUST CONSTRUCTION

Circuit Protections ESD, over temp, short circuit, galvanic isolation

Power Protection Reverse polarity protection

Connector 68 Pin | Threaded | Robust to vibrations

Construction Anodized aluminium | IP68

-40 to 60°C **Temperature**

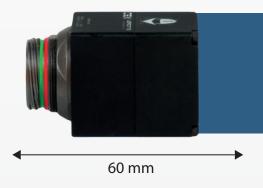
Weight 117g

SAFETY & CERTIFICATION

Power Input 6 - 36VDC | Redundant power input

Power 3.5W













sales@embention.com



