

### Overview

Our GRYPHON<sup>®</sup> products support multiple communication networks at the same time, thus offering customers the most flexible product in the marketplace.

This I/O daughter card occupies only one card slot and adds I/O control to the simultaneous support of vehicle protocols such as CAN, LIN, J1850, KWP 2000 and others.

#### I/O Card Capabilities

The GRYPHON<sup>®</sup> I/O Card provides the following features:

- Eight single-ended inputs
  - Voltage range 0 to 36 VDC
  - May be used as digital or analog inputs
  - First input can be used to measure frequency
  - Selectable gains for higher resolution
  - Four digital outputs
  - Capable of handling 1,000 mA
  - Output 4 can be configured for PWM

The  
GRYPHON<sup>®</sup>  
I/O Daughter  
Card



### I/O Card Specifications

#### Eight Analog /Digital Inputs

- Input voltage range 0 to 36 VDC
- Eight inputs that may be separately configured to monitor a combination of analog and digital signals
- 11 bit A/D converter resolution
- Inputs 1 and 2 are True Digital inputs
- Input 1 can be used to measure frequency with an accuracy of at least 0.5 %
- Features a signal divider (1-16) for frequency input
- Software selectable gains (1, 2, 4, 5, 8, 10, 16 or 20)

#### Four Digital Outputs

- 1,000 mA max current per pin; over current protected
- All are open collector low side switches
- Output 4 is configurable as a software controlled PWM output having a frequency range of 0.3 Hz to 80 KHz

#### Pin-Out F or The HD 15-Pin, Male, D-Type Connector

1 – Analog Input 1/ Digital Input 1/ Frequency Input	9 – Do not connect
2 – Analog Input 2/ Digital Input 2	10 – Ground
3 – Analog Input 3/ Simulated Digital Input3	11 – Digital Output 4/ PWM Output
4 – Analog Input 4/ Simulated Digital Input4	12 – Digital Output 3
5 – Analog Input 5/ Simulated Digital Input5	13 – Digital Output 2
6 – Analog Input 6/ Simulated Digital Input6	14 – Digital Output 1
7 – Analog Input 7/ Simulated Digital Input7	15 – Optional Output / Pull Up Voltage
8 – Analog Input 8/ Simulated Digital Input8	

Note: This card cannot be used to power the GRYPHON<sup>®</sup>



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