

## Description

The **FastPLEX-CAN BUS I/O CONTROLLER** is an ultra-versatile module designed for automotive applications requiring management of different type of loads. It is compact and provide all control outputs in a single, small form factor.

The MCU is a state-of-the-art system, allowing to control power train as well as custom hydraulic complex systems at the same time or any other devices needed in harsh environment.

The **FP2306** is intended in many types of applications where hydraulic valves, solenoids, LED signal lights or any other inductive and resistive loads could be used. All outputs are fully protected against short circuits. It offers many great functional capabilities such as Pulse wide Modulation (PWM) for variable control.

The **FP2306** has the capability to process up to 16 separate input signals of high side, low side or analog type. Our engineers have now integrated on 4 of these inputs, built-in 4-20mA sensor reading capability or 0-500 ohms impedance reading for standard fuel gauge as an example.

The **FP2306** offers the possibility to read directly the OEM J1939 network to get any useful available information. It can either be installed as a standalone unit or within a multiplexed network system.

## Applications

- Emergency Vehicles
- Machinery
- Specialized Mobile Equipment
- Armored Vehicles
- Mobile Units
- Signaling Systems



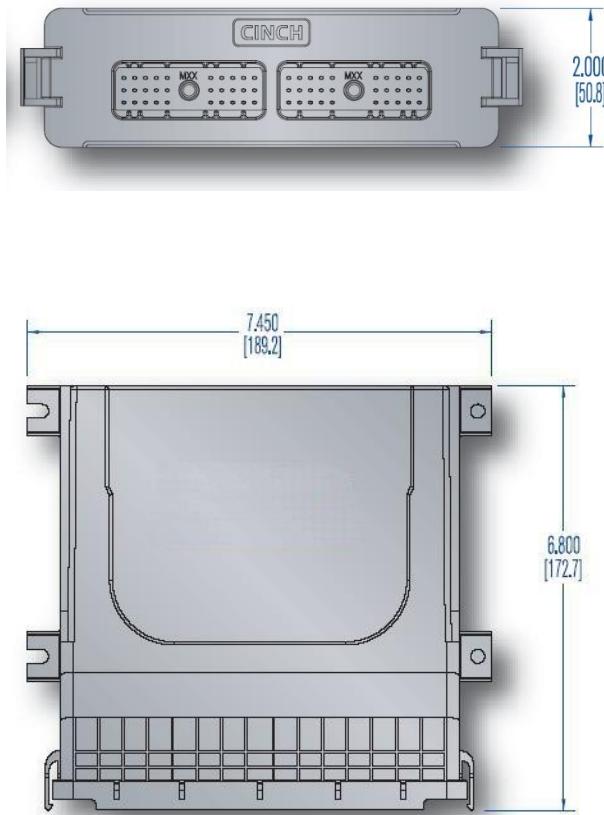
## Features

- Design in accordance with SAE-J1455
- Operating supply voltage range: 9 to 32 V
- Reverse polarity protection and load dump protection
- Operating temperature range: -40 to +80°C
- IP67 enclosure
- Low consumption mode (Sleep Mode), wake-up by input or network
- 2 CAN 2.0b port
- 16 Inputs
- 28 Outputs
- 10 Bits analog to digital converter
- Power for external sensors (1.3A)
- 1 voltage reference (5V)
- Diagnostic LEDs
- Maximum total continuous current: 35A

## Benefits

- Rugged, made for harsh conditions.
- Fast installation.
- Compact, powerful and economic I/O controller. Maximum flexibility for memory parameter configuration.

## Dimensions



## Technical Information

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- 1 voltage reference (5V)
- Diagnostic LEDs
- Maximum total continuous current: 35A

## 16 Inputs:

- (2) ( DA28F ) software configurable:  
Digital: High side or low side, Analog: 0-28.5V,  
Frequency: 10Hz-10kHz
- (2) ( DA28W ) software configurable:  
Digital: High side or low side, Analog: 0-28.5V, Wake up
- (8) ( DA10 ) software configurable:  
Digital: High side or low side, Analog: 0-10V
- (2) ( DA5Z ) software configurable:  
Digital: High side, Analog: 0-5.5V,  
Impedance ( 0-500Ω )
- (2) ( DA5CZ ) software configurable:  
Digital: High side, Analog: 0-5.5V,  
Current 4-20 mA, Impedance ( 0-500Ω )

## 28 Outputs:

- (4) ( H6FL2 ) software configurable:  
Source (6A): Digital, PWM (1%), current sensing  
Sink (2A): Digital, current sensing
- (2) ( H6F ) software configurable:  
Source (6A): Digital, PWM (0.01%), current sensing
- (2) ( H4F ) software configurable:  
Source (4A): Digital, PWM (0.01%), current sensing
- (20) ( H6 ) Source (6A): Digital, current sensing

For more information regarding related products and options, we invite you to contact a sales representative.  
Refer to the product specifications sheet for more details.

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