



Isolated 8-ch DIFF./16-ch S.E. AI EtherNet/IP module

■ Features

- Transfer protocol: EtherNet/IP
- 10/100 Base-TX Ethernet, RJ-45 x 2 (Auto-negotiating, auto MDI/MDIX, LED Indicators)
- Easy firmware update via Ethernet
- Removable terminal block connector
- LED display to indicate the I/O status
- Analog Input
 - > Differential: 8 Channels
 - ➤ Single-Eended: 16 Channels
- Internal resistors (125Ω) selectable for Differential mode









■ Introduction

The EIP-2017 is an 8-ch Differential and 16-ch Single-Ended AI module. The module provides a jumper to switch Differential and Single-Ended mode. It supports voltage and current input type. The accuracy of the measurement is smaller than 0.1% FSR. The Module is designed as an EtherNet/IP adapter. Users can obtain the input status as well as the connection status of the EIP-2017 by the LEDs indication. Inaddition, ICPDAS provides software utility to easily configure and test the EIP-2000 modules via Ethernet.

Utility Features

ICP DAS provides the EIP-2000 configuration utility for Windows 2K/XP/Vista and Win 7.Network parameters configuration

- Network parameters configuration
- Al parameters configuration
- Functions configuration such as Type Code selection
- Easy test to transmit/receive the I/O status by EtherNet/IP
- Setting files management

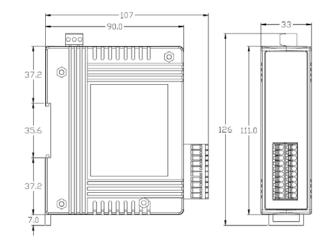
Configuration for EIP_2017 Module Version:1.1(2013/11/5) Firmware Version EIP-2017 2013/11/5 v1.1 Select All Channel ☑ CH0 0.001 ▼ ✓ CH8 +/-10V +/-10V × ☑ CH9 ✓ CH1 0.001 +/-10V +/-107 ☑ CH10 ✓ CH2 0 +/-10V +/-10V CH11 ✓ CH3 0.001 +/-107 ✓ CH12 +/-10V ✓ CH4 0.001 +/-10V ☑ CH13 ✓ CH5 0 +/-10V +/-107 ☑ CH6 0.001 +/-10V ✓ CH14 +/-107 +/-10V ☑ CH7 0 +/-10V ✓ CH15 MAC Address 00-0D-E0-80-00-16 Filter 50Hz EIP connection success.(11-21 02:16.16) Address Type Static IP Unit Engi Static IP Address 192 168 255 1 CH DIFF. Load Save File File Default Gateway 192 168 0 1 Update Network Settings Save Log Clear Log

Website: https://www.icpdas.com

Internal I/O Structure

AI	Voltage Input Wiring	Current Input Wiring
DIFF	. mV/V ⊕ □⊖ VIX VIX-	$mA \overset{+}{\bigoplus} \underbrace{D \ominus}_{125 \ \Omega} VIX \\ VIX^{-}$
S.E.	mV/V → □⊖ VIX/VIX- □⊖ AGND	$mA \overset{+}{\bigoplus} \overset{\square \oplus}{\underset{125\;\Omega}{\bigotimes}} VIX/VIX-$

■ Dimensions (Units: mm)



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Specifications

Analog Innut	
Analog Input	O ab differential as 1/ ab simple and a
Channels	8-ch differential or 16-ch single-ended (Jump selectable)
	Voltage: ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V
Input Type	Current : 0 \sim +20 mA, +4 \sim +20 mA, ±20 mA (Jumper Selectable in DIFF mode. An external resistor is required in SE mode)
Resolution	24bits
Sampling Rate	10 samples/ second
Accuracy	+/-0.1%
Zero Drift	+/-20uV/°C
Span Drift	+/-25ppm/°C
Input Impedance	Voltage Input: >400 k Ω , Current Input: 125 Ω
Intra-Module Isolation, Field-to-Logic	3000 VDC
Overvoltage protection	240 Vrms
Individual Channel Configuration	Yes
Communication Interface	
Connector	10/100 Base-TX, 8-pin RJ-45 x 2 Support daisy chain connection.
Standard Supported	IEEE 802.3 Ethernet/IP
Power	
Input Voltage Range	10V ~ 30V
Power Consumption	3.8W
Mechanism	
Installation	DIN-Rail
Dimensions	110mm x 90mm x 33mm (H x W x D)
Environment	
Operating Temperature	-25 ~ 75 °C
Storage Temperature	-30 ~ 80 °C

Application



Ordering Information

EIP-2017 CR	Isolated 16-ch DI EtherNet/IP Module (RoHS)
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