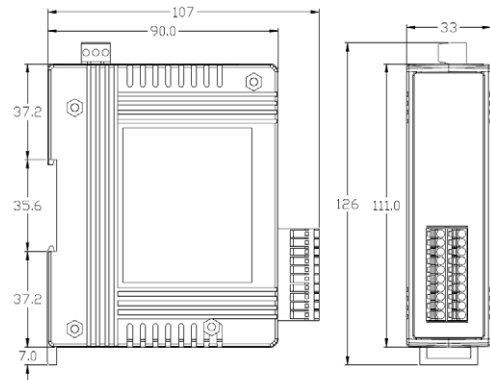# Isolated 8-ch DIFF./16-ch S.E. AI EtherNet/IP module

EIP-2017

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. In addition, ICPDAS provides software utility to easily configure and test the EIP-2000 modules via Ethernet.
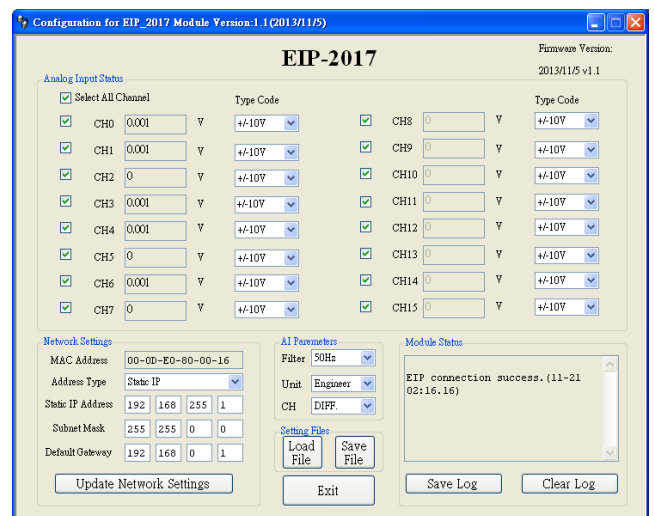
Features

- Transfer protocol: EtherNet/IP
- Powerful 32-bit MCU handles efficient network traffic
- 10/100 Base-TX Ethernet, RJ-45 x 2 (Auto-negotiating, auto MDI/MDIX, LED Indicators)
- Support ARP,TCP, UDP, ICMP, DHCP, BOOTP and TFTP protocols
- Easy firmware update via Ethernet
- Removable terminal block connector
- LED display to indicate the I/O status
- Analog Input
  - Differential: 16 Channels
  - Single-Eended: 8 Channels
- Internal resistors ($125\,\Omega$) selectable for Differential mode
- RoHS compliant

Utility Features

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

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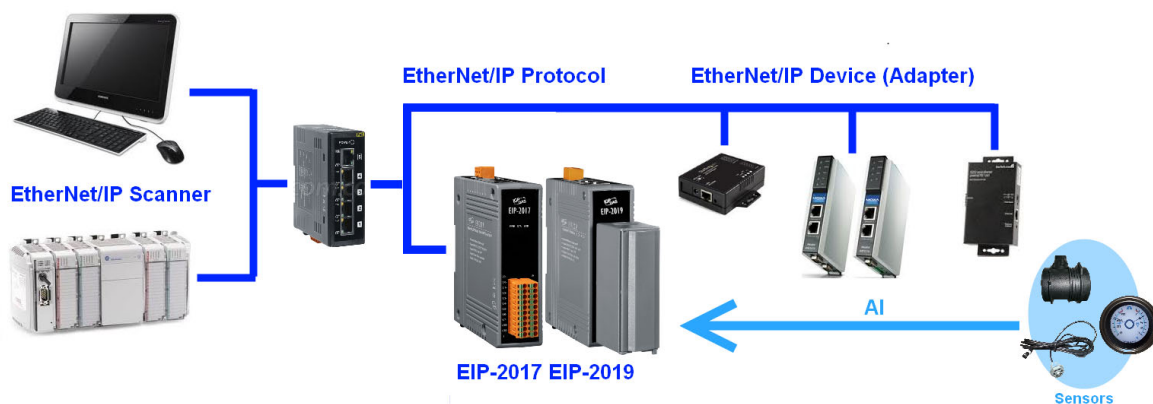

Wire connection

AI	Voltage Input Wiring	Current Input Wiring
DIFF.	mV/V $\quad$ VIX / VIX-	mA $\quad$ 125 Ω $\quad$ VIX / VIX-
S.E.	mV/V $\quad$ VIX/VIX- / AGND	mA $\quad$ 125 Ω $\quad$ VIX/VIX- / AGND

Analog Input	
Channels	8-ch differential or 16-ch single-ended (Jump selectable)
Input Type	Voltage : ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V
	Current : 0 ~ +20 mA, +4 ~ +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 kΩ, Current Input: 125 Ω
Intra-Module Isolation, Field-to-Logic	3000 V_{DC}
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	
Storage Temperature	-30℃ ~ +80℃

Applications

Ordering Information

EIP-2017 CR	Isolated 8-ch DIFF./16-ch S.E. AI EtherNet/IP Module (RoHS) Art. No. 132664

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