ICP DAS

EIP-2051

▣ 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
- Built-In I/O — DI/Counter: 16 Channels
- RoHS compliant

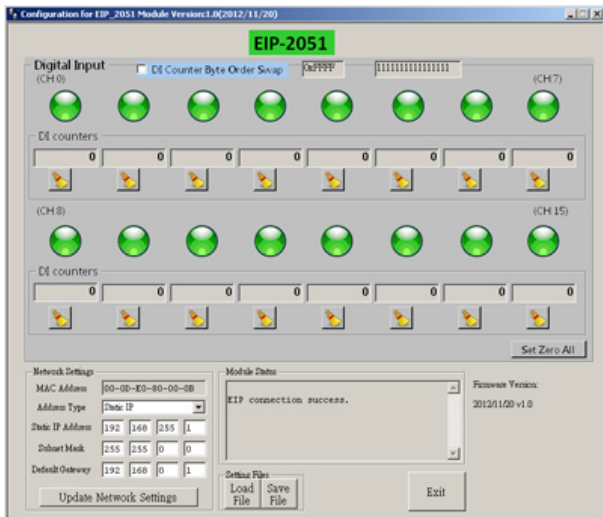## EIP-2051
Isolated 16-ch DI EtherNet/IP module

◼ Introduction

The EIP-2051 is a remote digital input module with 16 inputs. It is designed as an EtherNet/IP adapter. Users can obtain the input status as well as the connection status of the EIP-2051 by the LEDs indication. In addition, ICPDAS provides software utility to easily configure and test the EIP-2000 modules via Ethernet.

◼ Utility Features

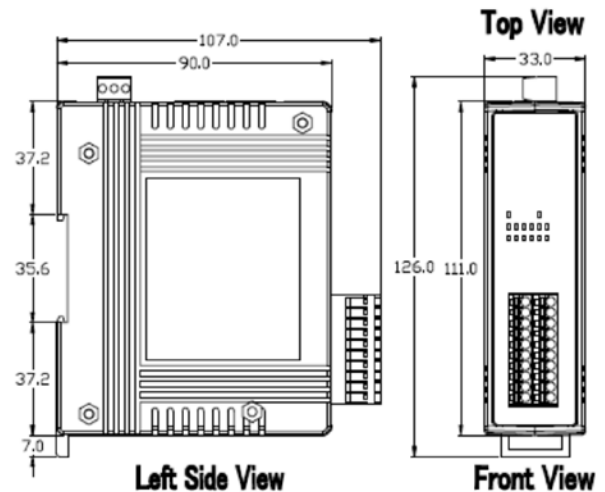ICP DAS provides the EIP-2000 configuration utility for Windows 2K/XP/Vista and Win 7.

- Network parameters configuration
- DI counters inspection
- Functions configuration such as DI counters set zero
- Easy test to transmit/receive the I/O status by EtherNet/IP
- Setting files management

◼ Wire connection

Input	ON	OFF
Relay Contact (Dry)	Relay Close — DIx / GND	Relay Open — DIx / GND
Open Collector (Dry)	ON — DIx / GND	OFF — DIx / GND
Relay Contact (Wet)	Relay Close — DI.COM / DIx	Relay Open — DI.COM / DIx
NPN Output (Wet)	ON — DI.COM / DIx	OFF — DI.COM / DIx

◼ Dimensions (Units: mm)

Top View — 33.0

Left Side View — 107.0 / 90.0 / 37.2 / 35.6 / 37.2 / 7.0

Front View — 126.0 / 111.0

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▣ Hardware Specifications

Digital Input			
Channels	16		
Input Type	Dry Contact: Source, Wet Contact: Sink / Source		
Dry Contact Level	Off Voltage Level: Open	On Voltage Level: Close to GND	
Wet Contact Level	Off Voltage Level: $+1V_{DC}$ Max.	On Voltage Level: $+5\ V_{DC} \sim +50\ V_{DC}$	
Counters	Max. Counts	32-bit (4,294,967,295)	
	Max. Input Frequency	3 kHz	
Input Impedance	7.5 kΩ		
Overvoltage Protection	$+70\ V_{DC}$		
Communication Interface			
Connector	10/100 Base-TX, 8-pin RJ-45 x 2 Support daisy chain connection		
Standard Supported	Ethernet/IP(Adapter)		
Power			
Reverse Polarity Protection	Yes		
Power Consumption	2.9W Max.		
Powered from Terminal Block	$+10V_{DC} \sim 30V_{DC}$		
Mechanism			
Installation	DIN-Rail or Wall mounting		
Dimensions	33 mm x 127mm x 99mm (W x L x H)		
Environment			
Operating Temperature	-25°C ~ +75°C		
Storage Temperature	-30°C ~ +80°C		
Humidity	10% ~ 90% RH , Non-condensing		

▣ Application

EIP-2051

▣ Ordering Information

EIP-2051 CR	Isolated 16-ch DI EtherNet/IP Module (RoHS)