



EIP-2228

EtherNet/IP Module (8-ch Analog Outputs)

Features

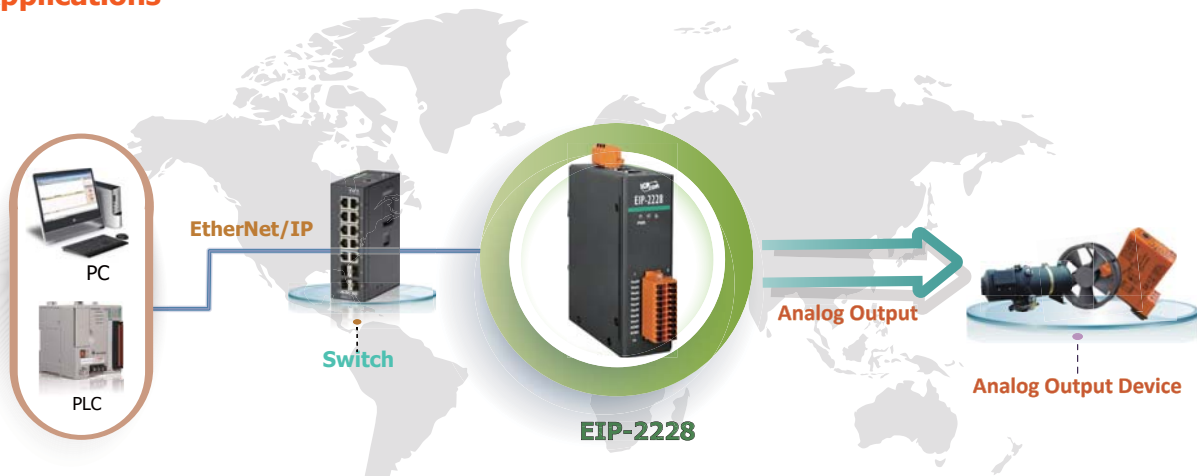
- Transfer protocol: EtherNet/IP
- Powerful 32-bit MCU handles efficient network traffic
- Support ARP, TCP, UDP, ICMP, DHCP, BOOTP and TFTP protocols
- Easy firmware update via Ethernet
- Analog Output 8 Channels
- 2-port Ethernet Switch (LAN Bypass) for Daisy-Chain Wiring



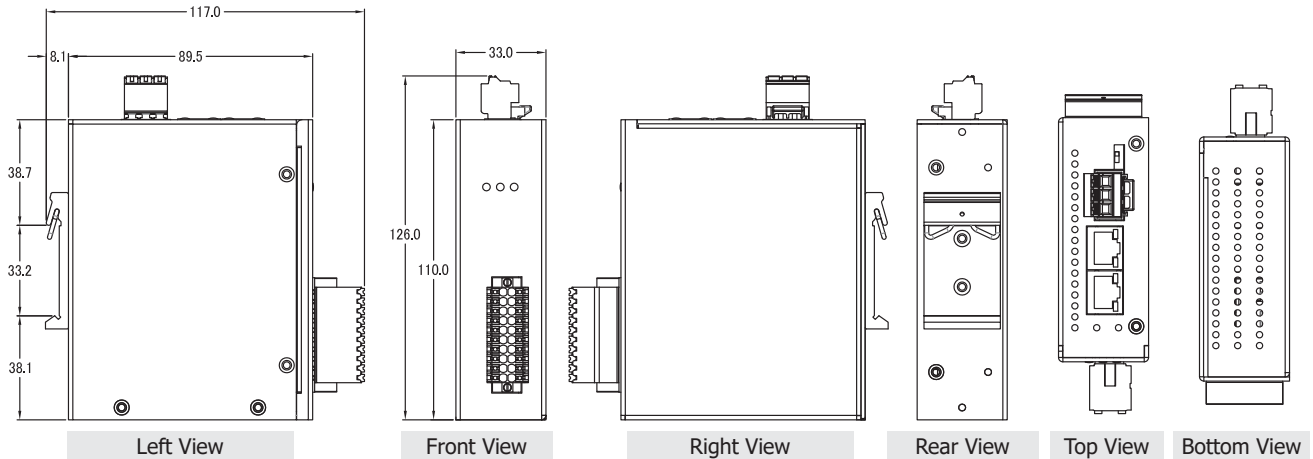
Introduction

The EIP-2000 is an industrial remote I/O module series supporting the EtherNet/IP protocol. Users can seamlessly integrate these modules into the Ethernet network from the industrial floor to the enterprise. The EIP-2000 allows daisy chain connection which permits the flexibility in locating devices, eases installation and lowers infrastructure costs. All the modules can be deployed in the network topologies such as star, line or ring. The isolation design protects the EIP-2000 against the harmful interference. The EIP-2228 is an 8-ch AO module. It provides a variety of programmable analog output options (0 to 5 V, +/-5 V, 0 to 10 V, +/-10 V, 4 to 20 mA or 0 to 20 mA). With 2 Ethernet ports, the EIP-2228 allows daisy chain connection which permits flexibility in locating devices, eases installation, and lowers infrastructure costs. It features 4 kV ESD protection, 4 kV EFT protection, 2 kV surge, and 3000 VDC I/O isolation are also provided to enhance noise protection capabilities in industrial environments. The power-on value and safe value of AO are configurable. The Module is designed as an EtherNet/IP adapter. Users can obtain the output status as well as the connection status of the EIP-2228 by the LEDs indication. In addition, ICPDAS provides software utility to easily configure and test the EIP-2000 modules via Ethernet.

Applications



Dimensions (Units: mm)





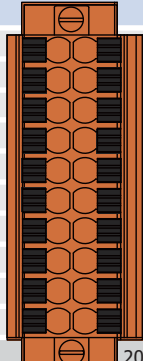
Specifications

CPU Module	
CPU	32-bit ARM
Watchdog Timer	Module, Communication (Programmable)
Isolation	
2-way Isolation	Ethernet: 1500 VDC I/O: 3000 VDC
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for Power Line
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal ±8 kV Air for Random Point
Surge (IEC 61000-4-5)	±2 kV for Power Line
LED Indicators	
Status	Run, Ethernet
Analog Input	
Channels	8
Type	Voltage Current
Range	Voltage: 0 to +5 VDC, ±5 VDC, 0 to +10 VDC, ±10 VDC Current: 0 to 20 mA, 4 to 20 mA
Resolution	12-bit
Accuracy	±0.1% of FSR
Short Circuit Protection	Yes
DA Output Response Time	1ms per channel
Programmable Output Slope	Voltage: 0.0625 to 512 V/Second Current: 0.125 to 1024 mA/Second
Open Wire Detection	For 4 to 20 mA only
Voltage Output Capability	Yes
Open Wire Detection	10 V @ 10 mA
Current Load Resistance	500 Ω
Individual Channel Configuration	Yes
Power-on Value	Programmable
Safe Value	Programmable
Ethernet	
Ports	2 x RJ-45, 10/100 Base-Tx, Switch Ports
LAN bypass	Yes
Protocol	EtherNet/IP (Adapter)

Power	
Reverse Polarity Protection	Yes
Consumption	6.2 W (max.)
Powered from Terminal Block	+10 to +48 VDC
Mechanical	
Casing	Metal
Dimensions (mm)	33 x 126 x 117 (W x L x H)
Installation	DIN-Rail mounting / Wall mounting (Optional ASO-0015)
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +80 °C
Humidity	10 ~ 90% RH, Non-condensing

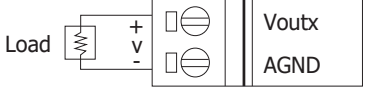
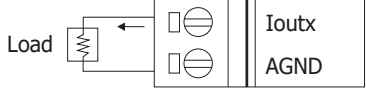
Pin Assignments

Port	Pin Assignment
PWR	F.G.
	GND
	+ Vs
ETH1	
ETH2	

Terminal No.					
Vout0	01		02	Iout0	
Vout1	03		04	Iout1	
Vout2	05		06	Iout2	
Vout3	07		08	Iout3	
Vout4	09		10	Iout4	
Vout5	11		12	Iout5	
Vout6	13		14	Iout6	
Vout7	15		16	Iout7	
AGND	17		18	AGND	
AGND	19		20	AGND	

20-pin Connector

Wire Connections

Voltage Output	Current Output
	

Ordering Information

EIP-2228 CR	EtherNet/IP Module (8-ch Analog Outputs) (RoHS)
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