

ET-2260



PET-2260

Ethernet I/O Module with 6-ch DI, 6-ch Power Relay

Features

- Web Server for Configuration
- Support Modbus TCP/UDP, MQTT, and SNMP V2c Protocols
- 2-port Ethernet Switch (LAN bypass) for Daisy-chain Wiring
- Supports Dual-watchdog
- I/O Pair Connection (Push and Pull)
- Built-in I/O
  - 6-ch DI (Wet/Dry)
  - 6-ch Power Relay (Form A)
- LED Display to Indicate the I/O Status

Introduction

(P)ET-2260 is a 6-channel DI (Wet/Dry Contact) and 6-channel electroMechanical relay output (Form A) module. Each input channel can function as a 32-bit counter, while each output channel can be configured with a Power-on value and safe value. The module includes a built-in 2-port Ethernet switch, facilitating a daisy-chain topology. This feature offers flexibility in device configuration, simplifies installation, and reduces infrastructure costs. Additionally, the module provides EMS (EFT/ESD/Surge) protection and 3000 VDC I/O Isolation to enhance noise protection capabilities in industrial environments.

Moreover, the module supports I/O Pair-Connection functionality, allowing the establishment of DI-to-DO pairing connections with the remote module via Ethernet. Once configured, local DI data can be written to remote DO channels in Push mode via Modbus TCP. Alternatively, pull remote DI to local DO.

System Specifications

Model	ET-2260	PET-2260
Software		
Built-in Web Server	Yes	
CPU Module		
CPU	32-bit ARM	
Watchdog Timer	Module, Communication (Programmable)	
Isolation		
2-way Isolation	Ethernet: 1500 VDC, I/O: 3000 VDC	I/O: 3000 VDC
EMS Protection		
EFT (IEC 61000-4-4)	±4 kV for Power Line	
ESD (IEC 61000-4-2)	±8 kV Contact for Each Terminal, ±16 kV Air for Random Point	
Surge (IEC 61000-4-5)	±3 kV for Power Line	
LED Indicators		
Status	Run, Ethernet, I/O	Run, Ethernet, I/O, PoE
Ethernet		
Ports	2 x RJ-45, 10/100 Base-Tx, Switch Ports	
PoE	-	Yes
LAN bypass	Yes	
Access Control	Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP, MQTT, SNMP V2c	
Power		
Reverse Polarity Protection	Yes	
Consumption	3.5 W (max.)	4.4 W (max.)

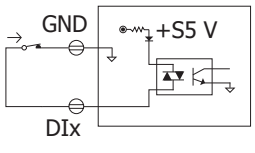
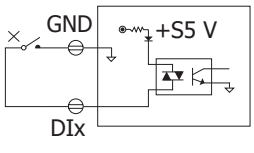
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Model	ET-2260	PET-2260
Powered from PoE	-	IEEE 802.3af, Class2
Powered from Terminal Block	+10 ~ +30 V_{DC}	+10 ~ +48 V_{DC}
Mechanical		
Casing	Plastic	
Dimensions (mm)	33 x 126 x 108 (W x L x H)	
Installation	DIN-Rail Mounting	
Environment		
Operating Temperature	-25 ~ +75 ℃	
Storage Temperature	-40 ~ +80 ℃	
Humidity	10 ~ 90% RH, Non-condensing	

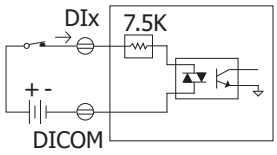
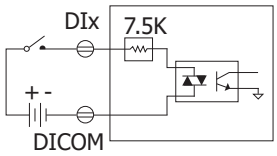
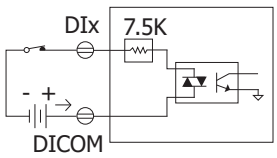
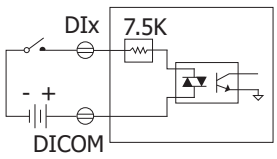
I/O Specifications

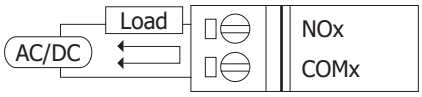
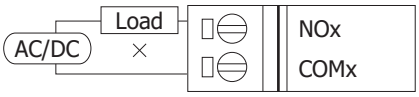
Digital Input/Counter	
Channels	6
Type	Dry Contact Wet Contact
Sink/Source (NPN/PNP)	Dry: Source Wet: Sink/Source
ON Voltage Level	Dry Contact: Close to GND Wet: +10 ~ +50 V_{DC}
OFF Voltage Level	Dry Contact: Open Wet: +4 V_{DC} (max.)
Max. Counts	4,294,967,295 (32-bit)
Frequency	3 kHz
Input Impedance	7.5 kΩ
Overvoltage Protection	+70 V_{DC}
Low Pass Filter	1 ~ 6500 ms (0.08 Hz ~ 500 Hz)
Relay Output	
Channels	6
Type	Power Relay, Form A (SPST N.O.)
Contact Rating	5 A @ 250 V_{AC}/24 V_{DC} (Resistive Load)
Operate Time	10 ms (max.)
Release Time	5 ms (max.)
Electrical Endurance	10^5 ops.
Mechanical Endurance	2×10^7 ops.
Power-on Value	Programmable
Safe Value	Programmable

Wire Connections

Digital Input/Counter	Readback as 1	Readback as 0
Dry Contact	Close to GND	Open
		

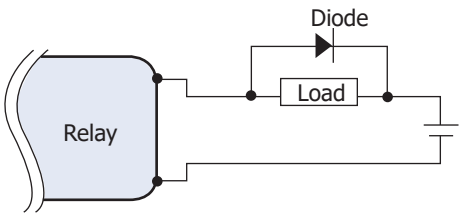
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Digital Input/Counter	Readback as 1	Readback as 0
	+10 ~ +50 VDC	OPEN or <4 VDC
Wet Contact (Sink)		
Wet Contact (Source)		

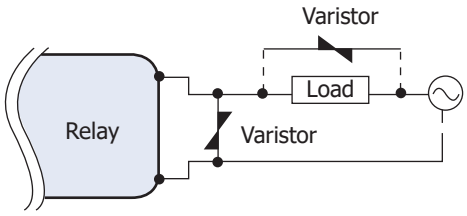
Relay Output	ON State Readback as 1	OFF State Readback as 0
Power Relay		

Note: When inductive loads are connected to the relays, a large counter electromotive force may occur when the relay actuates because of the energy stored in the load. These flyback voltages can severely damage the relay contacts and greatly shorten the relay life. Limit these flyback voltages at your inductive load by installing a flyback diode for DC loads or a metal oxide varistor for AC loads.

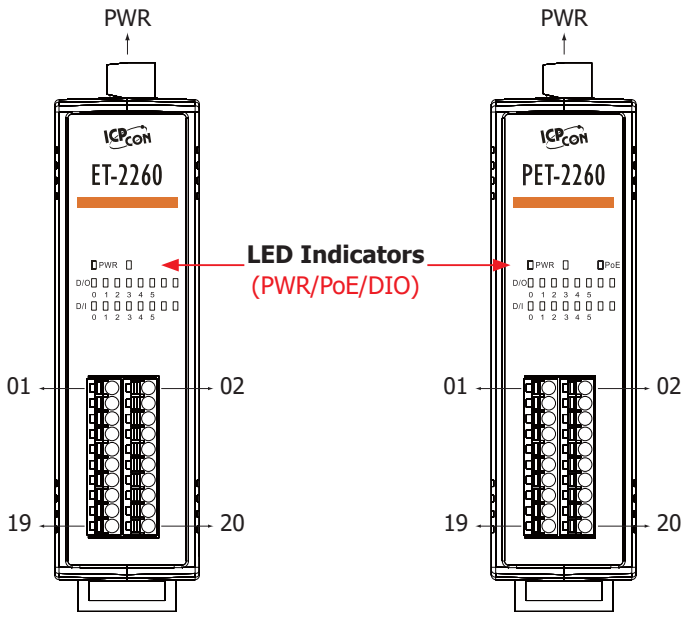
For DC Loads



For AC Loads



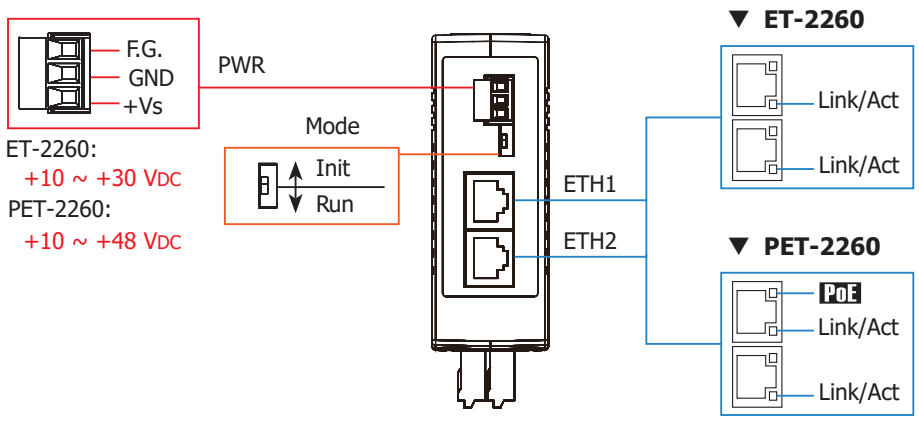
Pin Assignments



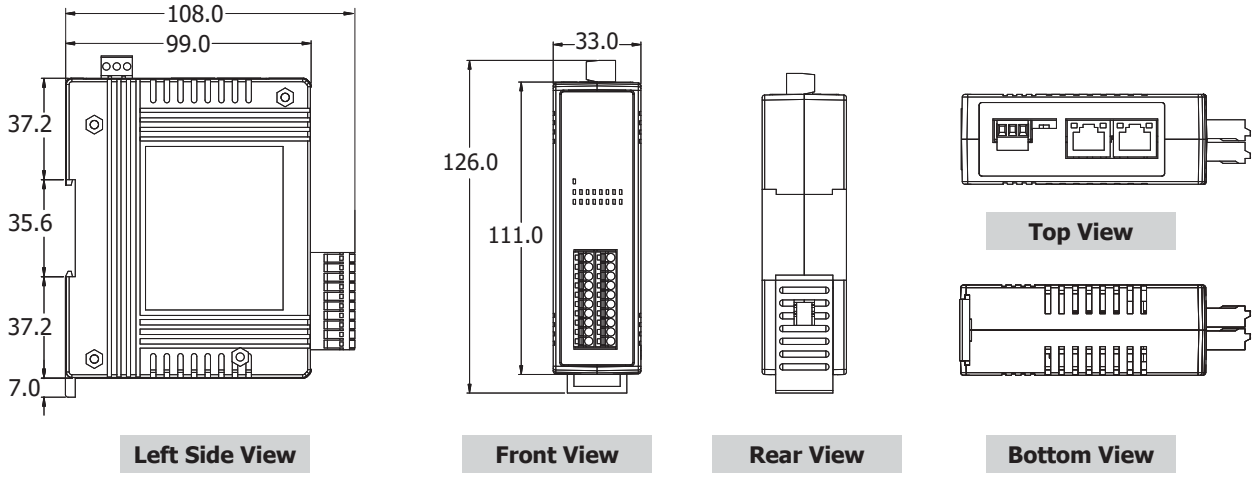
Pin Assignment	Terminal No.		Pin Assignment
NO0	01	02	GND
COM0	03	04	DI0
NO1	05	06	DI1
COM1	07	08	DI2
NO2	09	10	DI3
COM2	11	12	DI4
NO3	13	14	DI5
COM3	15	16	DICOM
NO4	17	18	NO5
COM4	19	20	COM5

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Appearance



Dimensions (Units: mm)



Ordering Information

ET-2260 CR	Ethernet I/O Module with 2-port Ethernet Switch, 6-ch DI, 6-ch Power Relay (RoHS)
PET-2260 CR	PoE I/O Module with 2-port Ethernet Switch, 6-ch DI, 6-ch Power Relay (RoHS)

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