



ET-7044
PET-7044

ET-7244
PET-7244

Ethernet I/O Module with 8-ch DI, 8-ch DO

Features

- Built-in Web Server
- Web HMI
- Support for both Modbus TCP and Modbus UDP Protocols
- Communication Access Control
- 2-port Ethernet Switch (LAN bypass) for Daisy-chain Wiring
- Dual Watchdog
- I/O Pair Connection
- Built-in I/O
  - ☐ DI/Counter: 8 Channels
  - ☐ DO: 8 Channels

Introduction

The ET-7044/PET-7044/ET-7244/PET-7244 provides 8 wet contact digital input channels and 8 sink-type digital output channels. It features optical isolation for 3750 Vrms of transient overvoltage protection but doesn't provide channel-to-channel isolation. Each input channel can be used as a 32-bit counter and each output channel can drive a 300 mA load. The power-on value and safe value of the digital output channel are programmable. It can safely be used in applications where hazardous voltages are present.

System Specifications

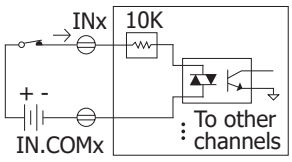
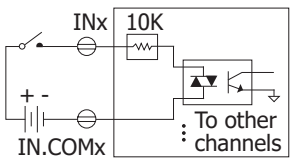
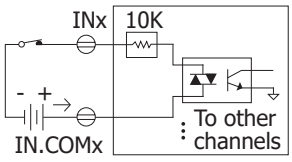
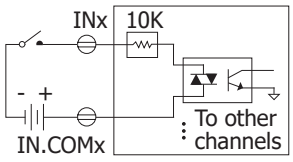
Model	ET-7044	PET-7044	ET-7244	PET-7244
Software				
Built-in Web Server	Yes			
CPU Module				
Watchdog Timer	Module, Communication (Programmable)			
2-Way Isolation				
Ethernet	1500 VDC	-	1500 VDC	-
I/O	2500 VDC		2500 VDC	
EMS Protection				
EFT (IEC 61000-4-4)	±4 kV for Power Line			
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal ±8 kV Air for Random Point			
LED Indicators				
Status	Run, Ethernet	Run, Ethernet, PoE	Run, Ethernet, I/O	Run, Ethernet, I/O, PoE
Ethernet				
Ports	1 x RJ-45, 10/100 Base-TX		2 x RJ-45, 10/100 Base-TX, Swtich Ports	
PoE	-	Yes	-	Yes
LAN bypass	-		Yes	
Access Control	ID, Password and IP Filter			
Protocol	Modbus TCP, Modbus UDP			
Power				
Reverse Polarity Protection	Yes			
Consumption	2.5 W (max.)	2.5 W (max.)	3.3 W (max.)	3.5 W (max.)
Powered from PoE	-	IEEE 802.3af	-	IEEE 802.3af
Powered from Terminal Block	+10 ~ +30 VDC	+12 ~ +48 VDC		
Mechanical				
Dimensions (mm)	72 x 123 x 35 (W x L x H)		76 x 120 x 42 (W x L x H)	
Installation	DIN-Rail Mounting			
Environment				
Operating Temperature	-25 ~ +75 °C			
Storage Temperature	-30 ~ +80 °C			
Humidity	10 ~ 90% RH, Non-condensing			

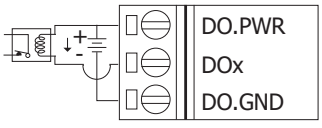
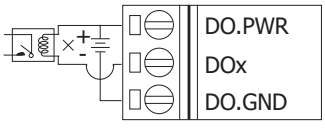
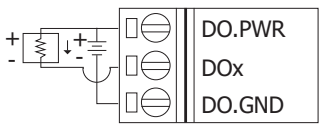
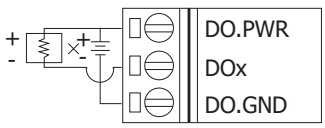
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I/O Specifications

Model	ET-7044 PET-7044	ET-7244 PET-7244
Digital Input/Counter		
Channels	8	
Type	Wet Contact	
Sink/Source (NPN/PNP)	Sink/Source	
ON Voltage Level	+10 ~ +50 VDC	
OFF Voltage Level	+4 VDC (max.)	
Max. Counts	4,294,967,295 (32-bit)	
Frequency	500 Hz	100 Hz
Min. Pulse Width	1 ms	5 ms
Input Impedance	10 kΩ	
Overvoltage Protection	+70 VDC	
Digital Output		
Channels	8	
Type	Isolated Open Collector	
Sink/Source (NPN/PNP)	Sink	
Load Voltage	+10 ~ +40 VDC	+3.5 ~ +50 VDC
Load Current	300 mA/channel at 25°C	650 mA/channel at 25°C
	Direct Drive Power Relay Module	
Overvoltage Protection	+60 VDC	
Overload Protection	1.4 A	
Short-circuit Protection	Yes	
Power on Value	Programmable	
Safe Value	Programmable	

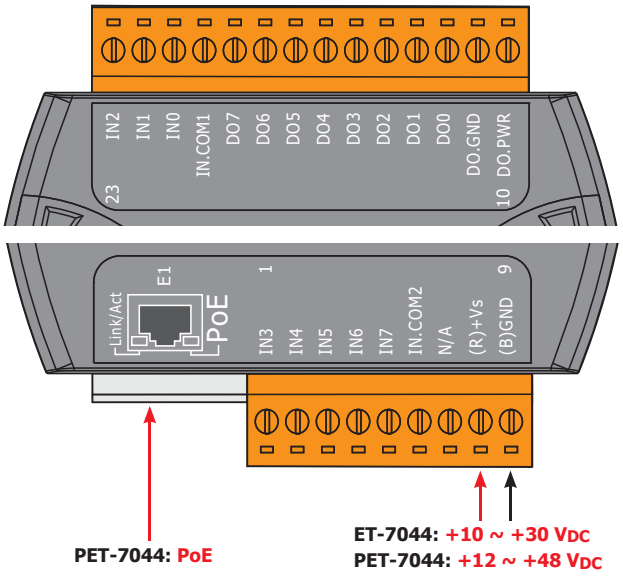
Wire Connections

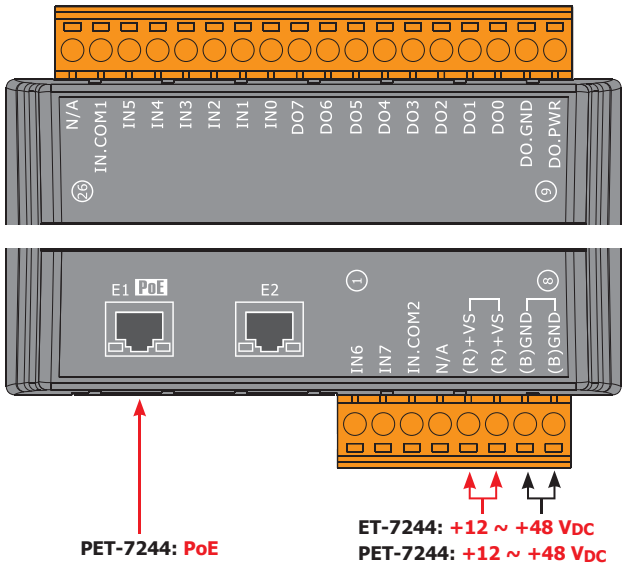
Digital Input/Counter	Readback as 1	Readback as 0
	+10 ~ +50 VDC	OPEN or <4 VDC
Sink		
	+10 ~ +50 VDC	OPEN or <4 VDC
Source		

Output Type	ON State, Readback as 1	OFF State, Readback as 0
Drive Relay		
Resistance Load		

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Pin Assignments





Ordering Information

ET-7044 CR	Ethernet I/O Module with 8-ch DI, 8-ch DO (RoHS)
PET-7044 CR	PoE I/O Module with 8-ch DI, 8-ch DO (RoHS)
ET-7244 CR	Ethernet I/O Module with 2-port Ethernet Switch, 8-ch DI, 8-ch DO (RoHS)
PET-7244 CR	PoE I/O Module with 2-port Ethernet Switch, 8-ch DI, 8-ch DO (RoHS)

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