

ET-7255
PET-7255

Ethernet I/O Module with 2-port Ethernet Switch, 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-7255/PET-7255 provides 8 dry/wet contact digital input channels and 8 source-type digital output channels. It features optical isolation for 2500 VDC 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 650 mA load. The power-on value and safe value of digital output channel are programmable. It can safely be used in applications where hazardous voltages are present.

System Specifications

Model	ET-7255	PET-7255
Software		
Built-in Web Server	Yes	
CPU Module		
Watchdog Timer	Module, Communication (Programmable)	
2-Way Isolation		
Ethernet	1500 VDC	-
I/O	2500 VDC	
EMS Protection		
EFT (IEC 61000-4-4)	±2 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, I/O	Run, Ethernet, I/O, PoE
Ethernet		
Ports	2 x RJ-45, 10/100 Base-TX, Swtich Ports	
PoE	-	Yes
LAN bypass	Yes	
Access Control	ID, Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP	
Power		
Reverse Polarity Protection	Yes	
Consumption	3.9 W (max.)	4.0 W (max.)
Powered from PoE	-	IEEE 802.3af, Class1
Powered from Terminal Block	+12 ~ +48 VDC	
Mechanical		
Dimensions (mm)	76 x 120 x 42 (W x L x H)	
Installation	DIN-Rail Mounting	

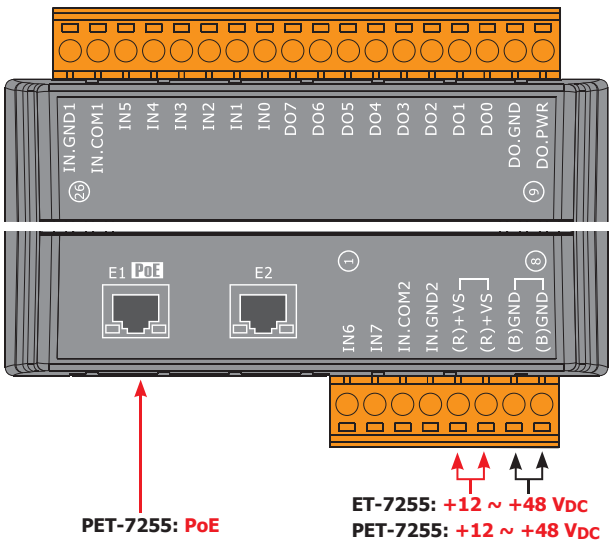
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Environment	
Operating Temperature	-25 ~ +75 ℃
Storage Temperature	-30 ~ +80 ℃
Humidity	10 ~ 90% RH, Non-condensing

I/O Specifications

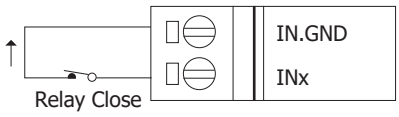
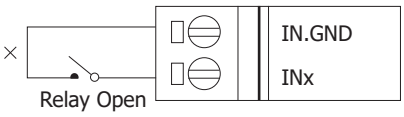
Model		ET-7255	PET-7255
Digital Input/Counter			
Channels		8	
Type		Dry Contact, Wet Contact	
Sink/Source (NPN/PNP)		Dry: Source Wet: Sink/Source	
ON Voltage Level	Dry	Close to GND	
	Wet	+10 ~ +50 V_{DC}	
OFF Voltage Level	Dry	Open	
	Wet	+4 V_{DC} (max.)	
Max. Counts		4,294,967,295 (32-bit)	
Frequency		100 Hz	
Min. Pulse Width		5 ms	
Effective Distance		500 m (max.)	
Input Impedance		10 kΩ	
Overvoltage Protection		+70 V_{DC}	
Digital Output			
Channels		8	
Type		Isolated Open Collector	
Sink/Source (NPN/PNP)		Source	
Load Voltage		+10 ~ +40 V_{DC}	
Load Current		650 mA/channel at 25℃	
Overvoltage Protection		+47 V_{DC}	
Short-circuit Protection		Yes	
Power on Value		Programmable	
Safe Value		Programmable	

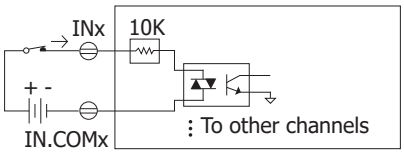
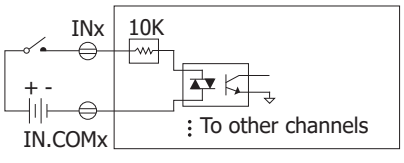
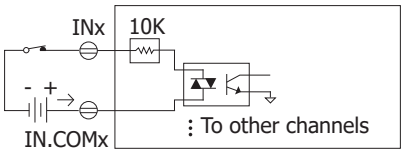
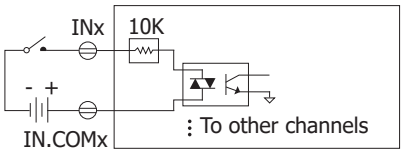
Pin Assignments

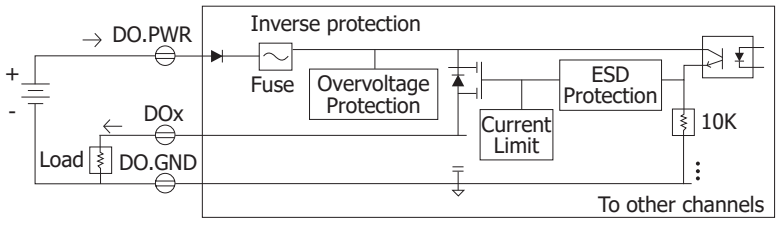
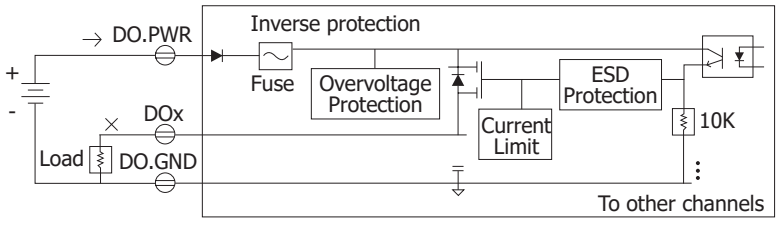


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Wire Connections

Digital Input /Counter	ON State, Readback as 1	OFF State, Readback as 0
Dry Contact		

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

Digital Output	ON State, Readback as 1
Source	
	OFF State, Readback as 0
	

Ordering Information

ET-7255 CR	Ethernet I/O Module with 2-port Ethernet Switch, 8-ch DI, 8-ch DO (RoHS)
PET-7255 CR	PoE I/O Module with 2-port Ethernet Switch, 8-ch DI, 8-ch DO (RoHS)

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