



ET-7042
ET-7042-UT
PET-7042

ET-7242
ET-7242-UT
PET-7242

Ethernet I/O Module with 16-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
  - DO: 16 Channels
- Wide Operating Temperature Range
  - ET-7x42-UT: -40 ~ +75°C

Introduction

The ET-7042/ET-7042-UT/PET-7042, ET-7242/ET-7242-UT/PET-7242 provides 16 sink-type digital output channels. It features optical isolation for 3750 VDC of transient overvoltage protection and doesn't have channel-to-channel isolation. The power-on value and safe value of the digital output channel are programmable. In some industrial applications, the user can connect the output channel of (P)ET-7x42, ET-7x42-UT to the RM series relay module to switch inductive loads.

System Specifications

Model	ET-7042	ET-7042-UT	PET-7042	ET-7242	ET-7242-UT	PET-7242
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			3750 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)	±0.5 kV for Power Line			±2 kV for Power Line		
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	2.7 W (max.)		2.6 W (max.)	3.2 W (max.)		3.4 W (max.)
Powered from PoE	-		IEEE 802.3af, Class1	-		IEEE 802.3af, Class1
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					

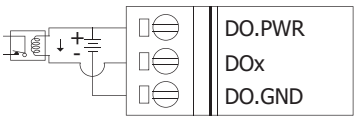
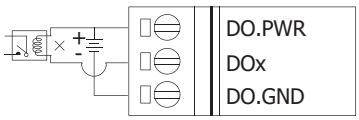
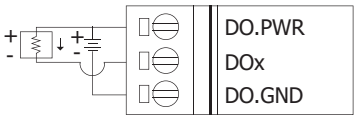
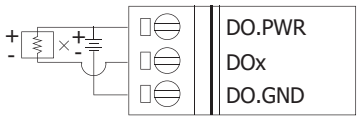
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Model	(P)ET-7042, (P)ET-7242	ET-7042-UT, ET-7242-UT
Environment		
Operating Temperature	-25 ~ +75 ℃	-40 ~ +75℃
Storage Temperature	-30 ~ +80 ℃	
Humidity	10 ~ 90% RH, Non-condensing	

I/O Specifications

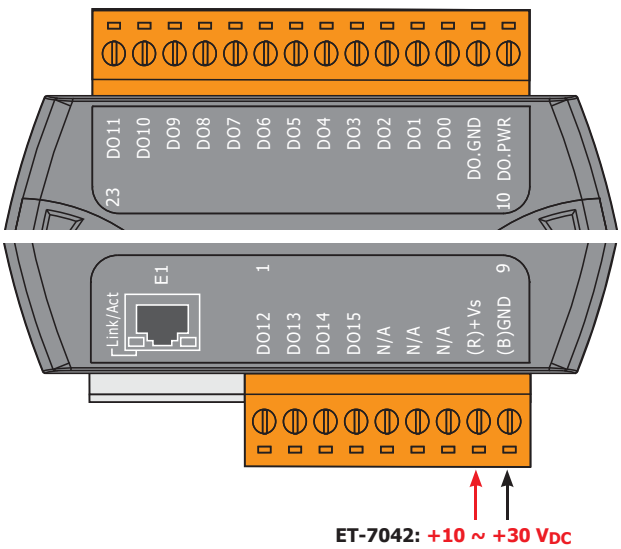
Model	ET-7042 ET-7042-UT	PET-7042	ET-7242, PET-7242 ET-7242-UT
Digital Output			
Channels	16		
Type	Isolated Open Collector		
Sink/Source (NPN/PNP)	Sink		
Load Voltage	+5 ~ +30 V_{DC}		+3.5 ~ +50 V_{DC}
Load Current	100 mA/channel at 25℃		650 mA/channel at 25℃
	Direct Drive Power Relay Module		
Overvoltage Protection	-	+60 V_{DC}	
Overload Protection	-	1.3 A	
Short-circuit Protection	-	Yes	
Power on Value	Programmable		
Safe Value	Programmable		

Wire Connections

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

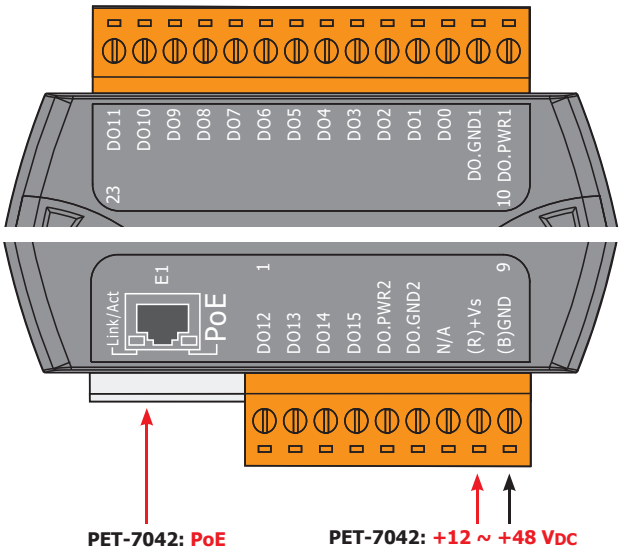
Pin Assignments

ET-7042/ET-7042-UT

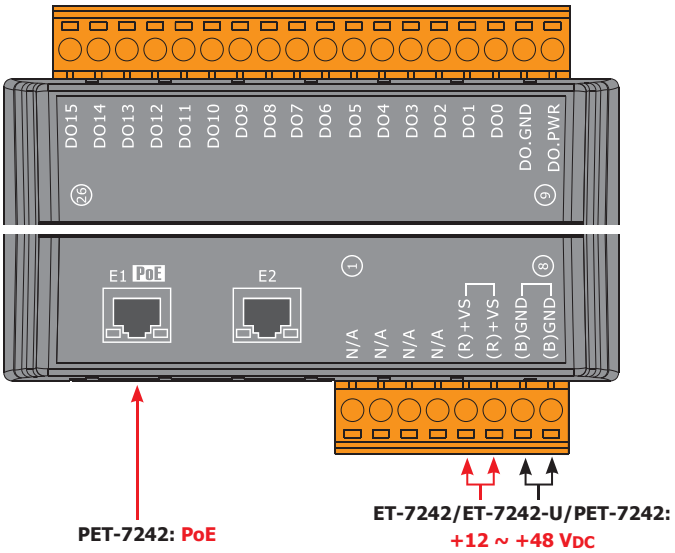


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PET-7042



ET-7242/ET-7242-UT/PET-7242



Ordering Information

ET-7042 CR	Ethernet I/O Module with 16-ch DO (RoHS)
ET-7042-UT CR	Ethernet I/O Module with 16-ch DO (RoHS), -40 ~ 75°C Operating Temperature
PET-7042 CR	PoE I/O Module with 16-ch DO (RoHS)
ET-7242 CR	Ethernet I/O Module with 2-port Ethernet Switch, 16-ch DO (RoHS)
ET-7242-UT CR	Ethernet I/O Module with 2-port Ethernet Switch, 16-ch DO (RoHS) -40 ~ 75°C Operating Temperature
PET-7242 CR	PoE I/O Module with 2-port Ethernet Switch, 16-ch DO (RoHS)

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