



ET-7042 ET-7042-UT PET-7042 ET-7242 ET-7242-UT PET-7242

Ethernet I/O Module with 16-channel DO

□ Features		
■ Built-in Web Server		
■ Web HMI		
■ Support for both Modbus TCP and Modbus UDP Protocols		
■ Communication Security		
■ 2-port Ethernet Switch for Daisy-Chain Topology		
■ Dual Watchdog		
■ Wide Operating Temperature Range		
☐ Standard Series: -25 ~ +75°C		
☐ UT Series: -40 ~ +75°C		
■ I/O Pair Connection		
■ Built-in I/O		
□ DO: 16 Channels		
CE FC KOHS		

■ Introduction

The ET-7042/PET-7042/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 digital output channel are programmable. In some industrial applications, the user can connect the output channel of ET-7042/PET-7042/ET-7242/PET-7242 to the RM series relay module to switch inductive loads.

■ System Specifications

Model	ET-7042	PET-7042	ET-7242	PET-7242	
Software					
Built-in Web Server	Yes				
Web HMI	Yes				
I/O Pair Connection		Yes			
Communication					
Ethernet Port	1 x RJ-45, 10)/100 Base-TX	2 x RJ-45, 10/100 Base-TX, Swtich Ports		
PoE	-	Yes	-	Yes	
Protocol		Modbus TCP, Modbus UDP			
Security	ID, Password and IP Filter				
Dual Watchdog		Yes, Module (0.8 seconds), Co	ommunication (Programmable)		
LED Indicators					
for System Running		Ye	es		
for Ethernet Link/Act	Yes				
for DI/DO status		- Yes			
for PoE Power	-	Yes	-	Yes	
2-Way Isolation					
Ethernet	1500 VDC	-	1500 VDC	-	
I/O	2500) VDC	3750 VDC		
EMS Protection					
ESD (IEC 61000-4-2)	±	4 kV Contact for Each Terminal	and ±8 kV Air for Random Poi	int	
EFT (IEC 61000-4-4)		±4 kV for	Power Line		
Surge (IEC 61000-4-5)	±0.5 kV for Power Line ±2 kV for Power Line		Power Line		
Power					
Reverse Polarity Protection	Yes				
Powered from Terminal Block	10 ~ 30 VDC	12 ~ 48 VDC	12 ~ 48 VDC	12 ~ 48 VDC	
Powered from PoE	-	Yes, IEEE 802.3af, Class1	-	Yes, IEEE 802.3af, Class1	
Consumption	2.7 W (Max.)	2.6 W (Max.)	3.2 W (Max.)	3.4 W (Max.)	
Mechanical					
Dimensions (L x W x H)	123 mm x 72 mm x 35 mm 120 mm x 76 mm x 38 mm			mm x 38 mm	
Installation	DIN-Rail or Wall Mounting				
Environment					
Operating Temperature	-25 to +75°C				
Storage Temperature		-30 to +80°C			
Humidity		10 to 90% RH, Non-condensing			

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■ I/O Specifications

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

■ Wire Connections

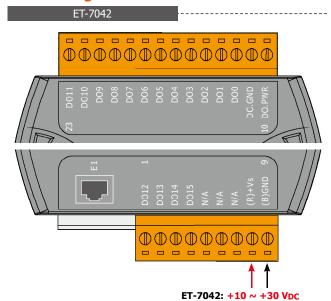
Output Type	ON State Readback as 1		
Drive Relay	DO.PWR DOX DO.GND		
Resistance Load	DO.PWR DOx DO.GND		

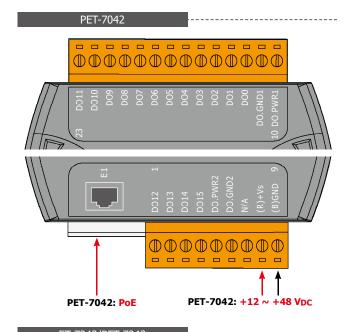
Output Type	OFF State Readback as 0		
Drive Relay	DO.PWR DOX DO.GND		
Resistance Load	DO.PWR DOX DO.GND		

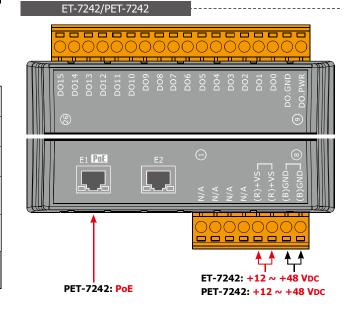
Ordering Information

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ET-7042 CR	Ethernet I/O Module with 16-channel DO (RoHS), -25 to 75°C operating temperature	
ET-7042-UT CR	Ethernet I/O Module with 16-channel DO (RoHS), -40 to 75°C operating temperature	
PET-7072 CR	PoE Ethernet I/O Module with 16-channel DO (RoHS), -25 to 75°C operating temperature	
ET-7242 CR	Ethernet I/O Module with 2-port Ethernet Switch, with 16-channel DO (RoHS), -25 to 75°C operating temperature	
ET-7242-UT CR	Ethernet I/O Module with 2-port Ethernet Switch, with 16-channel DO (RoHS), -40 to 75°C operating temperature	
PET-7242 CR	PoE Ethernet I/O Module with 2-port Ethernet Switch, with 16-channel DO (RoHS), -25 to 75°C operating temperature	

■ Pin Assignments







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