



ET-7024
PET-7024

ET-7224
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(PoE) Ethernet I/O Module with 4-ch AO, 5-ch DI and 5-ch DO

Features

- Built-in Web Server
- Web HMI
- Support for both Modbus TCP and Modbus UDP Protocols
- Communication Security
- 2-port Ethernet Switch (LAN Bypass) for Daisy-Chain Wiring
- Dual Watchdog
- I/O Pair Connection
- Built-in I/O
 - AO: 4 Channels
 - DI/Counter: 5 Channels
 - DO: 5 Channels



Introduction

The ET-7024/PET-7024/ET-7224/PET-7224 is a multifunction module includes 4 channels analog output, 5 channels digital input and 5 channels digital output. It provides a variety of programmable analog output options (+/-5 V, +/-10 V, 0 ~ 20 mA, and 4 ~ 20 mA), and each analog output can be programmed to accept either current or voltage as output depending upon the position of the corresponding jumper. The ET-7024/PET-7024/ET-7224/PET-7224 is fully RoHS compliant and provides 4 kV ESD protection as well as 2500 VDC intra-module isolation.

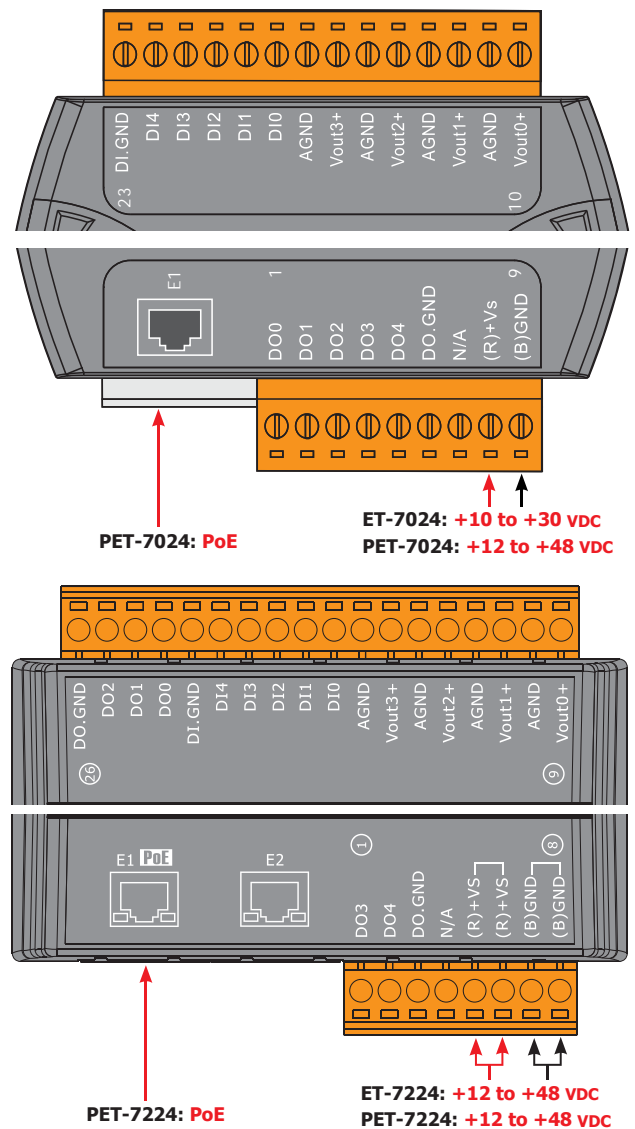
System Specifications

Model	ET-7024	PET-7024	ET-7224	PET-7224
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			
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, Switch Ports	
PoE	-	Yes	-	Yes
LAN bypass	-		Yes	
Security	ID, Password and IP Filter			
Protocol	Modbus TCP, Modbus UDP			
Power				
Reverse Polarity Protection	Yes			
Consumption	4.3 W (max.)	4.8 W (max.)	5.2 W (max.)	5.5 W (max.)
Powered from PoE	-	IEEE 802.3af, Class1	-	IEEE 802.3af, Class1
Powered from Terminal Block	+10 to +30 VDC		+12 to +48 VDC	
Mechanical				
Dimensions (mm)	72 x 123 x 35 (W x L x H)		76 x 120 x 38 (W x L x H)	
Installation	DIN-Rail mounting			
Environment				
Operating Temperature	-25 to +75°C			
Storage Temperature	-30 to +80°C			
Humidity	10 to 90% RH, Non-condensing			

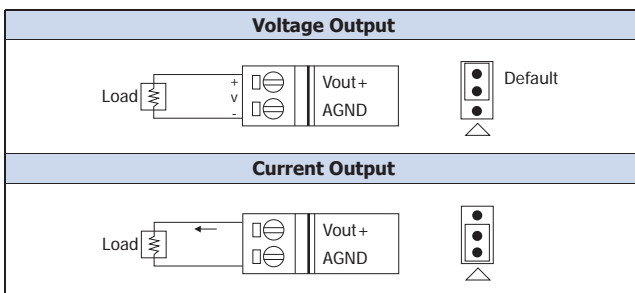
I/O Specifications

Analog Output		
Channels	4	
Type	Voltage, Current	
Current	+0 to +5 VDC, ±5 VDC, +0 to +10 VDC, ±10 VDC 0 to 20 mA, 4 to 20 mA (Jumper Selectable)	
Resolution	12-bit	
Accuracy	±0.1% of FSR	
Open Wire Detection	For 4 to 20 mA only	
Voltage Output Capability	10 V @ 20 mA	
Current Load Resistance	500 Ω	
Individual Channel Configuration	Yes	
Power on Value	Programmable	
Safe Value	Programmable	
Digital Input/Counter		
Channels	5	
Type	Dry Contact, Wet Contact	
ON Voltage Level	Dry	Close to GND
	Wet	+1 VDC (max.)
OFF Voltage Level	Dry	Open
	Wet	+3.5 to +30 VDC
Max. Counts	4,294,967,295 (32-bit)	
Frequency	100 Hz	
Min. Pulse Width	5 ms	
Effective Distance	500m (max.)	
Overvoltage Protection	+30 VDC	
Digital Output		
Channels	5	
Type	Isolated Open Collector	
Sink/Source (NPN/PNP)	Sink	
Load Voltage	+5 to +50 VDC	
Load Current	600 mA/channel	
Overvoltage Protection	+60 VDC	
Overload Protection	1.4 A	
Short-circuit Protection	Yes	
Power on Value	Programmable	
Safe Value	Programmable	

Pin Assignments



Wire Connections



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

Ordering Information

ET-7024 CR	Ethernet I/O Module with 4-ch AO, 5-ch DI and 5-ch DO (RoHS)
PET-7024 CR	PoE Ethernet I/O Module with 4-ch AO, 5-ch DI and 5-ch DO (RoHS)
ET-7224 CR	Ethernet I/O Module with 2-port Ethernet Switch, 4-ch AO, 5-ch DI and 5-ch DO (RoHS)
PET-7224 CR	PoE Ethernet I/O Module with 2-port Ethernet Switch, 4-ch AO, 5-ch DI and 5-ch DO (RoHS)

Digital Output	ON State Readback as 1	OFF State Readback as 0
Open Collector (Sink)		