



**ET-7017
PET-7017**

(PoE) Ethernet I/O Module with 8-ch AI and 4-ch DO

**ET-7217
PET-7217**

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
 - AI: 8 Channels with 240 Vrms Overvoltage Protection
 - DO: 4 Channels



Introduction

The ET-7017/PET-7017/ET-7217/PET-7217 is a module with 8-channel differential analog inputs and 4-channel digital outputs. It provides programmable input range on all analog channels (± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 20 mA, $0 \sim 20$ mA and $4 \sim 20$ mA) and digital output can be set alarm output with Short-circuit protection and overload protection. Each analog channel is allowed to configure an individual range and has 240 Vrms high overvoltage protection. Each analog input can be programmed to accept voltage or current as input depending upon the position of the corresponding jumper. The sampling rate of ET-7017/PET-7017/ET-7217/PET-7217 is changeable; there are fast mode and normal mode for your consideration. ET-7017/PET-7017/ET-7217/PET-7217 also has qualification for 4 kV ESD protection as well as 2500 VDC intra-module isolation.

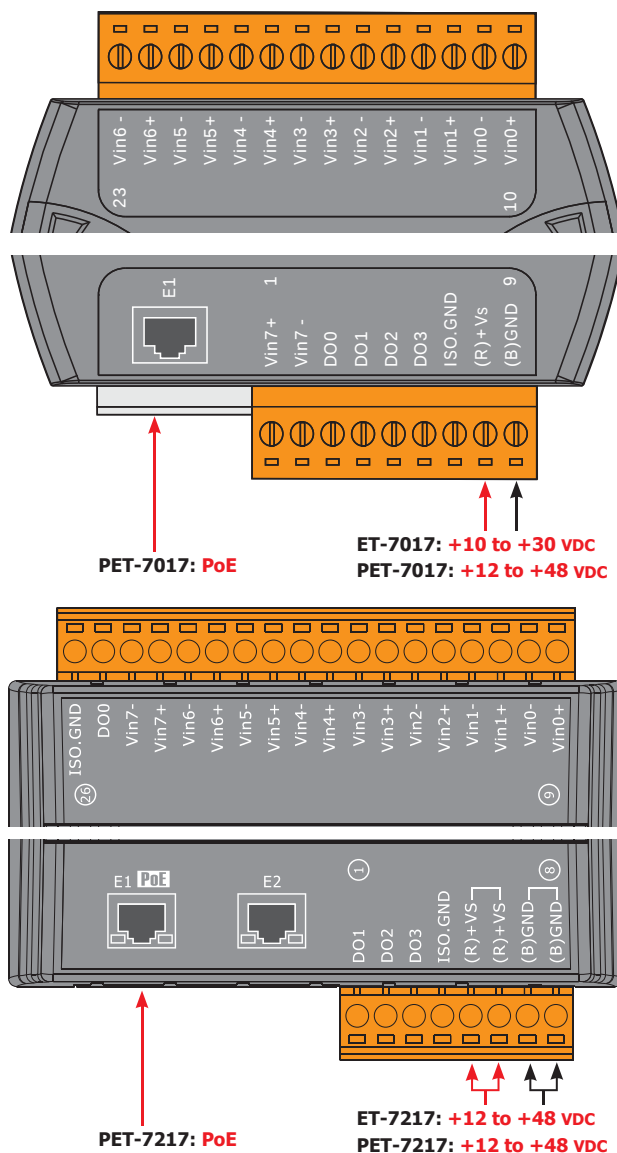
System Specifications

Model	ET-7017	PET-7017	ET-7217	PET-7217
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		±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)	±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	
Security	ID, Password and IP Filter			
Protocol	Modbus TCP, Modbus UDP			
Power				
Reverse Polarity Protection	Yes			
Consumption	2.8 W (max.)	3.2 W (max.)	4.2 W (max.)	4.4 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 Input		
Channels		8 (Differential)
Type		Voltage, Current
Range		±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±20 mA, 0 to 20 mA, 4 to 20 mA (Jumper Selectable)
Resolution		16-bit
Accuracy	Normal Mode	±0.1%
	Fast Mode	±0.5% or better
Sampling Rate	Normal Mode	10 Hz (total channels)
	Fast Mode	50 Hz (total channels)
Input Impedance	Voltage	2 MΩ
	Current	125 Ω
Common Voltage Protection		±200 VDC
Overvoltage Protection		240 Vrms
Overcurrent Protection		50 mA at 110 VDC (max.)
Individual Channel Configuration		Yes
Open Wire Detection		For 4 to 20 mA only
Virtual Channel to Channel Isolation		±400 VDC
Digital Output		
Channels		4
Type		Isolated Open Collector
Sink/Source (NPN/PNP)		Sink
Max. Load Current		700 mA/channel
Load Voltage		+5 to +50 VDC
Overvoltage Protection		+60 VDC
Overload Protection		1.4 A
Short-circuit Protection		Yes
Power on Value		Programmable
Safe Value		Programmable

Pin Assignments



Wire Connections

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

Ordering Information

ET-7017 CR	Ethernet I/O Module with 8-ch AI and 4-ch DO (RoHS)
PET-7017 CR	PoE Ethernet I/O Module with 8-ch AI and 4-ch DO (RoHS)
ET-7217 CR	Ethernet I/O Module with 2-port Ethernet Switch, 8-ch AI and 4-ch DO (RoHS)
PET-7217 CR	PoE Ethernet I/O Module with 2-port Ethernet Switch, 8-ch AI and 4-ch DO (RoHS)