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ET-2217



PET-2217

(PoE) Ethernet I/O Module with 8/16-ch Analog Inputs

■ Features

- Built-in Web Server
- Support Modbus TCP/UDP, MQTT, and SNMP V2c Protocols
- 2-port Ethernet Switch (LAN Bypass) for Daisy-Chain Wiring
- Dual Watchdog
- I/O Pair Connection (Push and Pull)
- Built-in I/O
- 8 Differential or 16 Single-ended Analog Inputs



■ Introduction

The ET-2217/PET-2217 is a module with 8-channel differential or 16 single-ended analog input module. The module provides a programmable input range on all Analog Input channels (± 150 mV, ± 500 mV, ± 1 V, ± 2.5 V, ± 5 V, ± 10 V, 0 to 20mA, 4 to 20mA, and ± 20 mA). Each analog input channel can be configured for an individual input range, providing a high overvoltage protection of 120 VDC and 50mA overcurrent protection at 110 VDC/VAC. Voltage and current input is DIP switch selectable. The sampling rate of the ET-2217/PET-2217 is adjustable and can be set to either fast (200Hz) or normal (20Hz) mode. It can be used to record voltage and current information. The module also features per-channel open wire detection for 4 ~ 20 mA input and provides 4 kV ESD/EFT protection, 2 kV Surge protection, and 3000 VDC intra-module isolation.

■ System Specifications

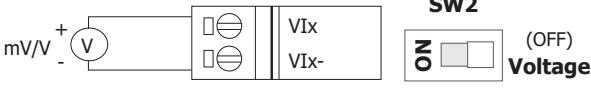
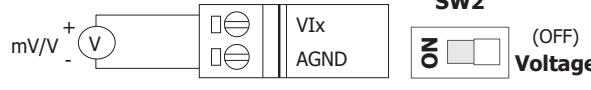
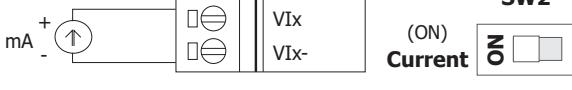
Model	ET-2217	PET-2217
Software		
Built-in Web Server	Yes	
CPU Module		
CPU	32-bit ARM	
Watchdog Timer	Module, Communication (Programmable)	
Isolation		
2-way Isolation	Ethernet: 1500 VDC, I/O: 3000 VDC	
EMS Protection		
EFT (IEC 61000-4-4)	± 4 kV for Power Line	
ESD (IEC 61000-4-2)	± 4 kV Contact for Each Terminal ± 8 kV Air for Random Point	
Surge (IEC 61000-4-5)	± 2 kV for Power Line	
LED Indicators		
Status	Run, Ethernet	Run, Ethernet, PoE
Ethernet		
Ports	2 x RJ-45, 10/100 Base-Tx, Switch Ports	
PoE	-	Yes
LAN bypass	Yes	
Security	Password and IP Filter	
Protocol	Modbus TCP, Modbus UDP, MQTT, and SNMP V2c	
Power		
Reverse Polarity Protection	Yes	
Consumption	3.3 W (max.)	3.5 W (max.)
Powered from PoE	-	IEEE 802.3af, Class1
Powered from Terminal Block	+10 to +48 VDC	
Mechanical		
Casing	Metal	
Dimensions (mm)	33 x 127 x 117 (W x L x H)	
Installation	DIN-Rail mounting / Wall mounting (Optional ASO-0015)	
Environment		
Operating Temperature	-25 to +75°C	
Storage Temperature	-40 to +80°C	
Humidity	10 to 90% RH, Non-condensing	

I/O Specifications

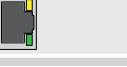
Model	ET-2217	PET-2217
Analog Input		
Channels		8 Differential or 16 Single-ended
Type		Voltage, Current (DIP switch selectable - see Note 1)
Range	Voltage	±150 mV, ±500 mV, ±1 V, ±2.5 V, ±5 V, ±10 V
	Current	±20 mA, 0 ~ +20 mA, +4 ~ +20 mA
Resolution		16-bit
Accuracy	Normal Mode	±0.1% of FSR
	Fast Mode	±0.5% of FSR
Sampling Rate	Normal Mode	20 Hz (total channels)
	Fast Mode	200 Hz (total channels)
Input Impedance	Voltage	2 MΩ (Differential), 1 MΩ (Single-ended)
	Current	137 Ω (Differential)
Common Voltage Protection		±200 VDC
Overvoltage Protection		120 VDC
Individual Channel Configuration		Yes
Open Wire Detection		For 4 to 20 mA only

Note 1: Differential wiring can be used for both voltage input and current input. Single-ended wiring can only be used for voltage input.

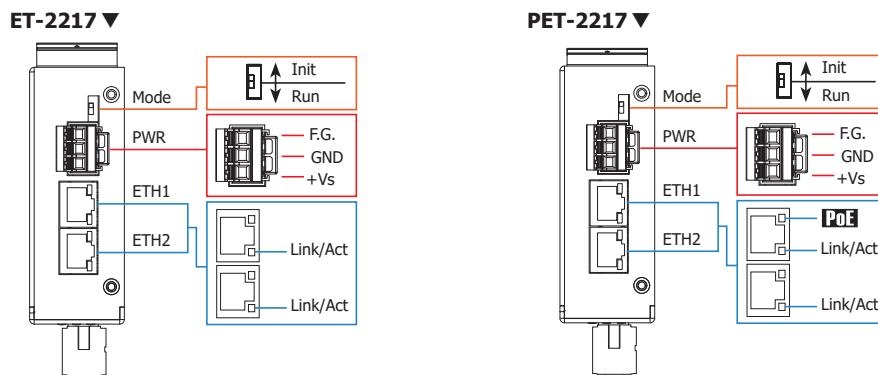
Wire Connections

Voltage Input (Differential Mode)	Voltage Input (Single-ended Mode)
	
Current Input (Differential Mode)	
	

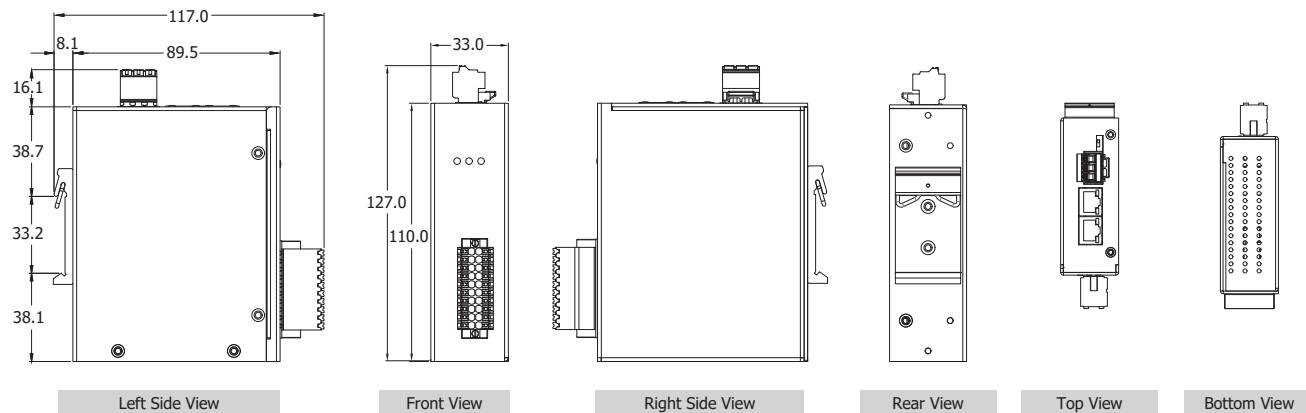
Pin Assignments

Port	Pin Assignment	Pin Assignment	SW2	Pin Assignment	Terminal No.	Pin Assignment
SW1		I0		V0	01	VI0-/VI8
PWR	F.G.	I1		V1	03	VI1-/VI9
	GND	I2		V2	05	VI2-/VI10
	+ Vs	I3		V3	07	VI3-/VI11
ETH1		I4		V4	09	VI4-/VI12
		I5		V5	11	VI5-/VI13
		I6		V6	13	VI6-/VI14
ETH2		I7		V7	15	VI7-/VI15
					AGND	AGND
					17	
					19	
					20	AGND
					20-pin Connector	

Appearance



Dimensions (Units: mm)

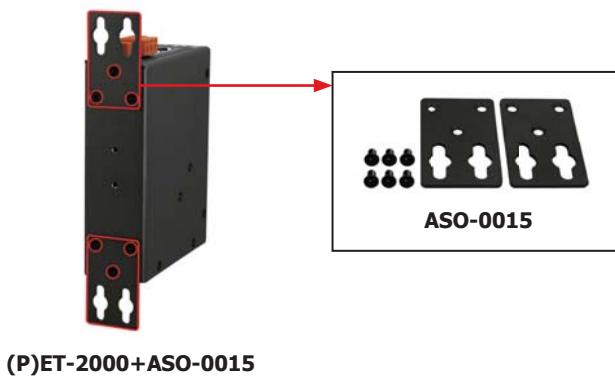


Ordering Information

ET-2217 CR	Ethernet I/O Module with 2-port Ethernet Switch, 8/16-ch Analog Input (RoHS)
PET-2217 CR	PoE Ethernet I/O Module with 2-port Ethernet Switch, 8/16-ch Analog Input (RoHS)

Accessories

ASO-0015 CR	Wall Mount Kit (W: 28 mm) (RoHS)
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(P)ET-2000+ASO-0015