



## ET-7217-A5

## PET-7217-A5

Ethernet I/O Module with 2-port Ethernet Switch,  
8-ch AI, 4-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
  - AI: 8 Channels High Voltage Input
  - The Analog Input range can be from  $\pm 50$  V or  $\pm 150$  V
  - Individual Channel Configurable
  - DO: 4 Channels



### Introduction

The (P)ET-7217-A5 feature 4 digital output channels and 8 differential high-voltage input channels. Each input channel supports two selectable voltage ranges ( $\pm 50$  V /  $\pm 150$  V) and can be configured independently, providing maximum flexibility for a wide range of applications. With full networking capabilities and an intuitive web-based user interface, the (P)ET-7217-A5 allows easy configuration and remote monitoring. Supporting Modbus TCP/UDP protocols, these modules integrate seamlessly with HMI, SCADA, PLCs, and other industrial automation systems.

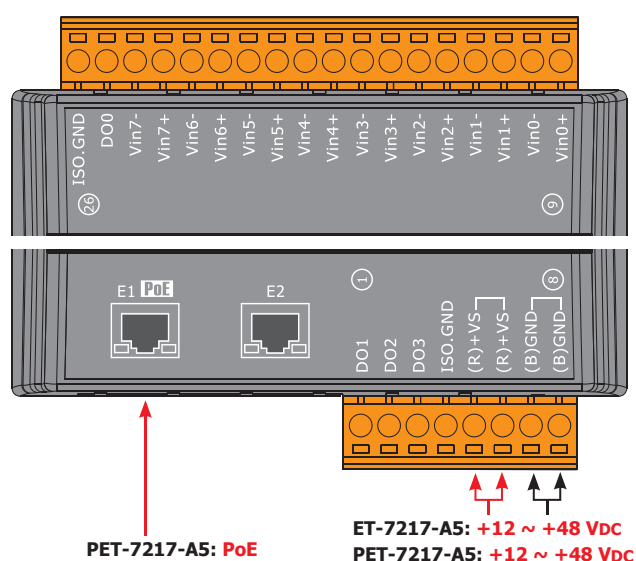
### System Specifications

| Model                       | ET-7217-A5                                                    | PET-7217-A5             |
|-----------------------------|---------------------------------------------------------------|-------------------------|
| Software                    |                                                               |                         |
| Built-in Web Server         | Yes                                                           |                         |
| CPU Module                  |                                                               |                         |
| Watchdog Timer              | Module, Communication (Programmable)                          |                         |
| 2-Way Isolation             |                                                               |                         |
| Ethernet                    | 1500 VDC                                                      | -                       |
| I/O                         | 2500 VDC                                                      |                         |
| EMS Protection              |                                                               |                         |
| EFT (IEC 61000-4-4)         | ±2 kV for Power Line                                          |                         |
| ESD (IEC 61000-4-2)         | ±4 kV Contact for Each Terminal<br>±8 kV Air for Random Point |                         |
| Surge (IEC 61000-4-5)       | ±2 kV for Power Line                                          |                         |
| LED Indicators              |                                                               |                         |
| Status                      | Run, Ethernet, I/O                                            | Run, Ethernet, I/O, PoE |
| Ethernet                    |                                                               |                         |
| Ports                       | 2 x RJ-45, 10/100 Base-TX, Swtich Ports                       |                         |
| PoE                         | -                                                             | Yes                     |
| LAN bypass                  | Yes                                                           |                         |
| Access Control              | ID, Password and IP Filter                                    |                         |
| Protocol                    | Modbus TCP, Modbus UDP                                        |                         |
| Power                       |                                                               |                         |
| Reverse Polarity Protection | Yes                                                           |                         |
| Consumption                 | 4.2 W (max.)                                                  | 4.4 W (max.)            |
| Powered from PoE            | -                                                             | IEEE 802.3af, Class1    |
| Powered from Terminal Block | +12 ~ +48 VDC                                                 |                         |
| Mechanical                  |                                                               |                         |
| Dimensions (mm)             | 76 x 120 x 42 (W x L x H)                                     |                         |
| Installation                | DIN-Rail Mounting                                             |                         |
| Environment                 |                                                               |                         |
| Operating Temperature       | -25 ~ +75 °C                                                  |                         |
| Storage Temperature         | -30 ~ +80 °C                                                  |                         |
| Humidity                    | 10 ~ 90% RH, Non-condensing                                   |                         |

## I/O Specifications

| Analog Input                         |             |                         |
|--------------------------------------|-------------|-------------------------|
| Channels                             |             | 8 (Differential)        |
| Type                                 |             | Voltage                 |
| Range                                |             | ±50 V, ±150 V           |
| 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     | 290 kΩ                  |
| Common Voltage Protection            |             | ±200 VDC                |
| Overvoltage Protection               |             | ±200 VDC                |
| Individual Channel Configuration     |             | Yes                     |
| Virtual Channel to Channel Isolation |             | ±400 VDC                |
| Digital Output                       |             |                         |
| Channels                             |             | 4                       |
| Type                                 |             | Isolated Open Collector |
| Sink/Source (NPN/PNP)                |             | Sink                    |
| Load Voltage                         |             | +5 ~ +50 VDC            |
| Load Current                         |             | 700 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

| Voltage Input         |                           |                            |
|-----------------------|---------------------------|----------------------------|
|                       |                           |                            |
| Digital Output        | ON State<br>Readback as 1 | OFF State<br>Readback as 0 |
| Open Collector (Sink) |                           |                            |

## Ordering Information

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| <b>ET-7217-A5 CR</b>  | Ethernet I/O Module with 2-port Ethernet Switch, 8-ch AI, 4-ch DO (RoHS) |
| <b>PET-7217-A5 CR</b> | PoE I/O Module with 2-port Ethernet Switch, 8-ch AI, 4-ch DO (RoHS)      |