

ETS-7217

Ethernet I/O Module with 2-port Ethernet Switch, 8-ch AI and 4-ch DO

Features

- Support for HTTP/HTTPS Web Server
- Enhanced DoS Protection
- Support for Modbus/TCP Security
- Support for MQTT (optional TLS)
- Support for 802.1Q and 802.1p Priority Tagging
- 2-port Ethernet Switch for Daisy-Chain Topology
- Dual Watchdog with Power-on and Safe Value
- I/O Pair Connection
- Built-in I/O
  - AI: 8 Channels with 240 Vrms Overvoltage Protection
  - DO: 4 Channels
- Fast Boot (< 5 Second)

Introduction

The ETS-7217 is a module with 8-channel differential analog inputs and 4-channel digital ouputs, as well as the MQTT, Rest API, CoAP, LwM2M and Modbus protocols, which are supported for connecting with a variety of digital sensors in Industrial Internet of Things (IIoT) applications.. It provides programmable input range on all analog channels (+/-150 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V, +/-20 mA, 0 ~ 20 mA and 4 ~ 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 corresponding jumper. The sampling rate of ETS-7217 is changeable; there are fast mode and normal mode for your consideration. ETS-7217 also has qualification for 4 kV ESD protection as well as 2500 VDC intra-module isolation.

ETS-7217 provides an easy-to-use and intuitive web interface that allows users to implement IF-THEN-ELSE control logic with just a few clicks; no programming is required. The built-in IF-THEN-ELSE logic engine executes the automation logic in a stable and efficient manner. It also provides functions for mathematical operations.

Specifications

Model	ETS-7217
Software	
Function	• Web Interface for Configuration • IF-THEN-ELSE Logic operation • I/O channel monitoring and control • Timer operation • Schedule operation • Internal Register operation
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
Isolation	
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 ±8 kV Air for Random Point
Surge (IEC 61000-4-5)	±2 kV for Power Line
LED Indicators	
Status	Run, Ethernet, I/O

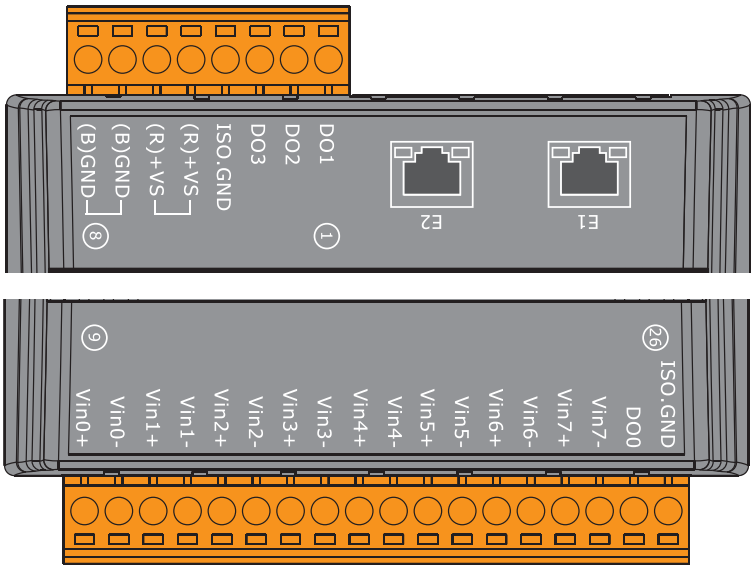
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Specifications

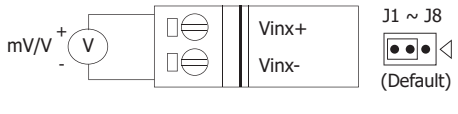
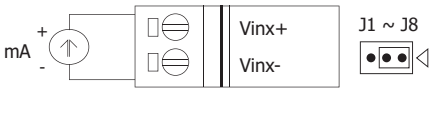
Model	ETS-7217
Analog Input	
Channels	8 (Differential)
Type	Voltage Current
Range	±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V±20 mA, 0 to 20 mA, 4 to 20 mA (Jumper Selectable)
Resolution	16-bit
Accuracy	Normal Mode: ±0.1% Fast Mode: ±0.5% or better
Sampling Rate	Normal Mode: 10 Hz (total channels) Fast Mode: 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
Isolation	±400 VDC, Virtual Channel to Channel Isolation
Digital Output	
Channels	4
Type	Isolated Open Collector
Sink/Source (NPN/PNP)	Sink
Load Voltage	+5 to +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
Ethernet	
Ports	2 x RJ-45, 10/100 Base-TX, Swtich Ports
LAN bypass	Yes
Access Control	ID, Password and IP Filter
Protocol	Modbus TCP, Modbus TCP/TLS, Modbus UDP, MQTT, Rest API, CoAP, LwM2M, SNMP, SMTP, SNTP, HTTP/HTTPS
Power	
Reverse Polarity Protection	Yes
Consumption	4.4 W (max.)
Powered from PoE	Yes, IEEE 802.3af, Class 2
Powered from Terminal Block	+12 to +48 VDC
Mechanical	
Dimensions (mm)	76 x 120 x 38 (W x L x H)
Installation	DIN-Rail mounting
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-30 ~ +80°C
Humidity	10 to 90% RH, Non-condensing

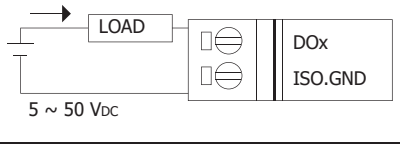
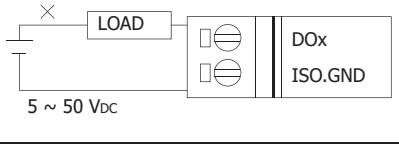
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Pin Assignments



Wire Connections

Voltage Input	Current Input
	

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

Ordering Information

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

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