



ETS-7217

Ethernet I/O Module, 8-ch AI, 4-ch DO

Introduction

The ETS-7217 has 8 differential analog inputs, 4 digital outputs, and supports OPC UA, MQTT, RESTful API, CoAP, LwM2M, and Modbus protocols. The module supports the TLS to secure such as web traffic (HTTPS), emails, messaging, OPC UA and MQTT. It offers programmable input ranges and digital alarm outputs with short-circuit and overload protection. Each analog channel is individually configurable and includes 240Vrms high overvoltage protection.

System 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 / Email sending function
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, ±8 kV Air for Random Point
Surge (IEC 61000-4-5)	±2 kV for Power Line
LED Indicators	
Status	Run, Ethernet, I/O
Ethernet	
Ports	2 x RJ-45, 10/100 Base-TX, Switch Ports
LAN bypass	Yes
Access Control	ID, Password and IP Filter
Protocol	Modbus TCP, Modbus TCP/TLS, Modbus UDP, OPC UA, MQTT, RESTful API, CoAP, LwM2M, SNMP, SMTP, SNTP, HTTP/HTTPS
Power	
Reverse Polarity Protection	Yes
Consumption	4.2 W (max.)
Powered from Terminal Block	+12 ~ +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

Features

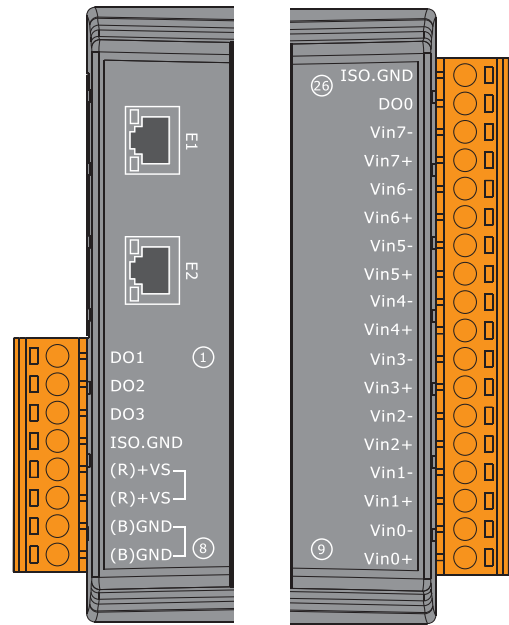
- Support for HTTP/HTTPS Web Server
- Enhanced DoS Protection
- Support for Modbus/TCP Security
- Support for OPC UA · MQTT with TLS
- Support for 802.1Q VLAN
- 2-port Ethernet Switch for Daisy-Chain Topology
- Dual Watchdog with Power-on and Safe Value
- I/O Pair Connection
- Built-in I/O
 - AI: 8 Channels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



I/O Specifications

Analog Input		
Channels	8 (Differential)	
Type	Voltage, Current	
Range	± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 20 mA, $0 \sim 20$ mA, $4 \sim 20$ mA (Jumper Selectable)	
Resolution	16-bit	
Accuracy	Normal Mode : $\pm 0.1\%$, Fast Mode : $\pm 0.5\%$ or better	
Sampling Rate	Normal Mode : 10 Hz (total channels), Fast Mode : 50 Hz (total channels)	
Input Impedance	Voltage	2 M Ω
	Current	125 Ω
Common Voltage Protection	± 200 VDC	
Overvoltage Protection	240 Vrms	
Overcurrent Protection	50 mA @ 110 VDC (max.)	
Individual Channel Configuration	Yes	
Open Wire Detection	For 4 to 20 mA only	
Isolation	± 400 VDC	
Digital Output		
Channels	4	
Type	Isolated Open Collector	
Sink/Source (NPN/PNP)	Sink	
Load Voltage	+5 ~ +50 VDC	
Max. 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		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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