

ETS-7215

Secure Ethernet I/O Module with 2-port Ethernet Switch, 7-ch RTD Input

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
- Support Power-on and Safe Value
- I/O Pair Connection
- Built-in I/O
  - RTD Input: 7 Channels
- Fast Boot (< 5 Seconds)

Introduction

The ETS-7215 is specifically designed for long-distance RTD measurement. It features automatic compensation for three-wire RTD regardless of the length of wires and provides open wire detection for RTD measurement. The ETS-7215 offers 7 channels, each of which could be connected with different kinds of RTD (Pt100, Pt1000, Ni120, Cu100, Cu1000). The ETS-7215 supports MQTT, Rest API, CoAP, LwM2M, and Modbus protocols for connecting with various digital sensors in Industrial Internet of Things (IIoT) applications. Also, The ETS-7215 is fully RoHS-compliant and has qualification for 4 kV ESD protection as well as 2500 VDC intra-module isolation.

ETS-7215 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-7215
Software	
Function	• Web Interface for Configuration • IF-THEN-ELSE Logic operation • I/O channel monitoring and control • Timer operation • Schedule operation • Internal Register operation
Built-in Web Server	Yes
CPU Module	
Watchdog Timer	Module, Communication (Programmable)
Isolation	
2-way Isolation	Ethernet: 1500 VDC
	I/O: 3000 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

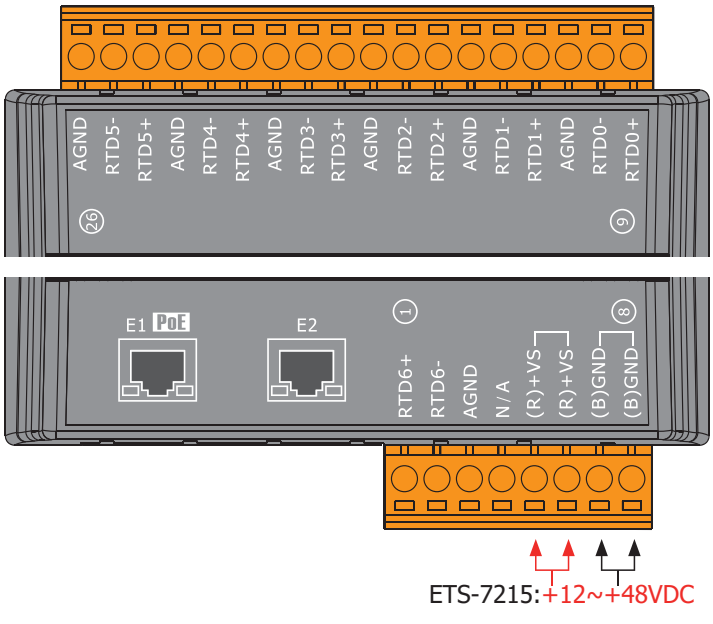
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I/O Specifications

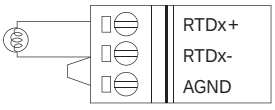
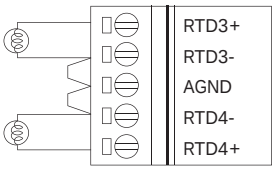
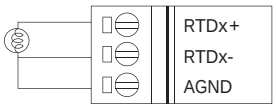
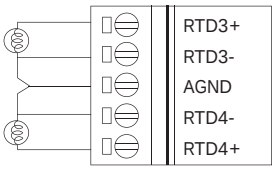
Model	ETS-7215
Analog Input	
Channels	7 (Differential)
Type	RTD (2-wire, 3-wire)
Sensor Type	Pt100, Pt1000, Ni120, Cu100, Cu1000
Resistance Measurement	3.2 kΩ (max.)
Resolution	16-bit
Accuracy	±0.05%
Sampling Rate	12 Hz (total channels)
Input Impedance	>1M Ω
Overvoltage Protection	+120 VDC
Individual Channel Configuration	Yes
Open Wire Detection	Yes
3-wire RTD Lead Resistance Elimination	Yes
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	3.0 W (max.)
Powered from PoE	Yes, IEEE 802.3af, Class 2
Powered from Terminal Block	+12 to +48 VDC
Mechanical	
Dimensions (mm)	72 x 120 x 38 (W x L x H)
Installation	DIN-Rail mounting
Environment	
perating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +80 °C
Humidity	10 to 90% RH, Non-condensing

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Pin Assignments



Wire Connections

Isolated open collector (Sink)	CH0, 1, 2, 5, 6	CH3, CH4
2-wire RTD		
3-wire RTD		

Ordering Information

ETS-7215	Secure Ethernet I/O Module with 2-port Ethernet Switch and 7-ch RTD Input (RoHS)

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