

Slim Type Ethernet I/O Modules

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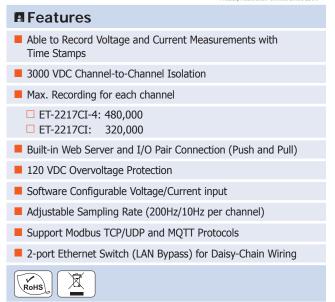
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ET-2217CI-4

ET-2217CI

Ethernet I/O Module 4/8-channel Analog Inputs



Introduction

The ET-2217CI is a channel-to-channel isolated analog input module that includes 8 analog input channels. The module provides a programmable input range on all Analog Input channels (± 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 software configurable. The sampling rate of the ET-2217CI is adjustable and can be set to either fast (200Hz) or normal (10Hz) mode. It can be used to record voltage and current information, including the date and time stamps. Support is provided for common industrial protocols such as Modbus TCP, as well as the emerging machine-to-machine (M2M)/)IoT (Internet of Things) connectivity protocol – MQTT. The module also features per-channel open wire detection for 4 \sim 20 mA input and provides 4 KV ESD/EFT protection, 2 KV Surge protection, and 3000 VDC intra-module isolation and channel-to-channel isolation. The ET-2217CI-4 has the same specifications as ET-2217CI, but provides 4-channel analog inputs.

■ System Specifications

Model	ET-2217CI-4	ET-2217CI	
System			
CPU 32-bit ARM			
Real Time Clock	Yes, up to 480,000 records (FT-2217CI-4) an		
Data Logger			
Communication			
Ethernet Port	2 x RJ-45, 10/100 Bas	se-TX, Switch Ports	
Protocol	Modbus TCP, Modbus	UDP, and MQTT	
Security	Password and IP Filte	r	
Dual Watchdog	Yes, Module, Commur	nication (Programmable)	
LAN Bypass Yes			
LED Indicators			
for System Running	Yes, 1 as Power/Communication Indicator		
for Ethernet Link/Act Yes			
2-Way Isolation			
Ethernet	1500 VDC		
I/O	3000 VDC, Field-to-Lo 3000 VDC, Channel to	-	
EMS Protection			
ECD (IEC 61000 4.2)	±4 kV Contact for Each Terminal		
ESD (IEC 61000-4-2)	±8 kV Air for Random Point		
EFT (IEC 61000-4-4)	±4 kV for Power Line		
Surge (IEC 61000-4-5) ±2 kV for Power Line			
Power			
Reverse Polarity Protection	Yes		
Powered from Terminal Block	+10 ~ +48 VDC		
Consumption	5.4 W (Max.)		

Model	ET-2217CI-4	ET-2217CI	
Mechanical			
Dimensions (mm)	33 x 176 x 130 (W x L x H)		
Installation	DIN-Rail Mounting		
Casing	Metal		
Ingress Protection Rating	IP30		
Environment			
Operating Temperature	-25 ~ +75°C		
Storage Temperature	-30 ∼ +80°C		
Humidity	10 ~ 90% RH, Non-condensing		

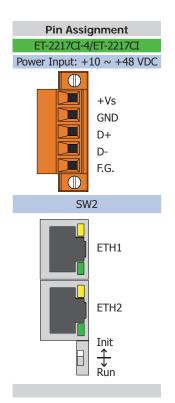
■ I/O Specifications

Model		ET-2217CI-4	ET-2217CI	
Analog Inp	ut			
Channels		4 Differential 8 Differential		
	Voltage	±1 V, ±2.5 V, ±5 V, ±10 V		
Type Range	Current	0 ~ 20mA, 4 ~ 20mA		
	Current	(Software Configurable)		
Resolution		16-bit		
Accuracy	Normal Mode	±0.1% of FSR		
Accuracy Fast Mode		±0.5% of FSR		
Sampling Normal Mode		10 Hz (per channel)		
Rate	Fast Mode	200 Hz (per channel)		
Input Impedancet		Voltage: 20 MΩ, Current: 135 Ω		
Overvoltage Protection		120 VDC		
Overcurrent Protection		Yes, 50 mA at 110 VDC		
Individual Channel Configuration		Yes		

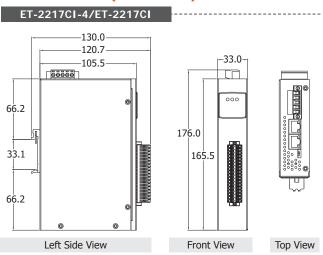
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Pin Assignments

Pin Assignment		Terminal No.		Pin Assignment		
ET-2217CI	ET-2217CI-4				ET-2217CI	ET-2217CI-4
AIO-	AIO-	02		01	AO0+	AIO+
		04		03		
AI1-		06		05	AI1+	
		80		07		
AI2-	AI1-	10		09	AI2+	AI1+
		12		11		
AI3-		14		13	AI3+	
		16		15		
AI4-	AI2-	18		17	AI4+	AI2+
		20		19		
		22		21		
AI5-		24		23	AI5+	
		26		25		
		28		27		
AO6-	AI3-	30		29	AI6+	AI3+
		32		34		
		34		33		
AI7-		36		35	AI7+	

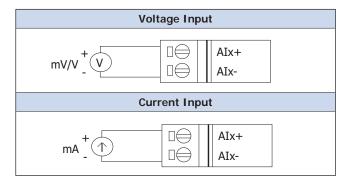


■ Dimensions (Units: mm)



■ Wire Connections

ET-2217CI-4/ET-2217CI



Ordering Information

ET-2217CI-4 CR	Ethernet I/O Module with 2-port Ethernet Switch, 4-channel Analog Inputs with Channel-to-Channel Isolation (RoHS)	
ET-2217CI CR	Ethernet I/O Module with 2-port Ethernet Switch, 8-channel Analog Inputs with Channel-to-Channel Isolation (RoHS)	

■ Related Products

NS-205 CR	Unmanaged 5-Port Industrial Ethernet Switch with Power Input +10 ~ +30 VDC (RoHS)
NS-208 CR	Unmanaged 8-port Industrial 10/100 Base-TX Ethernet Switch with Power Input +10 ~ +30 Vpc (RoHS)
DIN-KA52F CR	24 V/1.04 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
GPSU06U-6	24 V/0.25 A (max.) Power Supply

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