



I-87017DW

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8-channel Differential/16-channel Single-Ended Analog Input Module with High Voltage Protection

Introduction

I-87017DW is a serial interface and 8-channel Differential/16-channel Single-Ended analog input module. The analog input range is software selectable and supports +/-10V, +/-5V, +/-1V, +/-500mV, +/-150mV, and +/-20mA. Differential and Single-ended mode is selected by jumpers.

Features

- 8-channel Differential/16-channel Single-ended Analog Input
- D-Sub 37 Connector
- 4 kV ESD Protection
- Dual Watchdog
- 3000 VDC Intra-Module Isolation, Field to Logic
- A Wide Range of Operating Temperature: -25 °C~ 75 °C
- RoHS Compliance

Specifications

Analog Input	
Input Channels	8 Differential/16 Single-Ended
Input Type	+/- 10V, +/- 5V, +/- 1V, +/- 500mV, +/- 150mV -20mA ~ +20mA(Only Differential Mode, Requires Optional External 125 Ohm Resistor)
Resolution	16-bit / 12-bit
Sampling Rate	Normal Mode : 16-bit, 10 Samples/ sec (Total) Fast Mode : 12-bit, 60 Sample/ sec (Total)
Accuracy	Normal Mode : +/- 0.1% of FSR Fast Mode : +/- 0.5% of FSR
-3dB BandWidth	15.7Hz
Zero Drift	+/- 20µV/ °C
Span Drift	+/- 25 ppm/ °C
Common Mode Rejection	86 dB
Normal Mode Rejection	100 dB
Input Impedance	Differential Mode: >2M Ohms, Single-ended Mode: >1M Ohms
Overvoltage Protection	Differential Mode: 240 Vrms, Single-ended Mode: >120 Vrms
4KV ESD Protection	Yes, Contact for each terminal.
Open Daughter-Board Detection	Yes
Individual Channel Configuration	Yes
Intra-module Isolation, Field to Logic	3000VDC
Watchdog	
Dual Watchdog	Yes, Module(1.6 sec) and Communication(Programable)
LED Display	
1 LED as Power/ Communication Indicator	
Power	
Power Consumption	Maximum: 1.4W
Environment	
Operating Ttemperature	-25 to 75 °C
Storage Ttemperature	-30 to 75 °C
Humidity	5 to 95%, Non-condensing
Dimensions	
30 x 102 x 115 (W x D x H)	

Ordering information

I-87017DW-G CR 8-channel Analog Input Module (Gray Cover) (RoHS)