



I-87017 I-87017-G

8-ch AI Module

Features

- 8-channel Analog Input
- Voltage or Current Input
- ±35 VDC Overvoltage Protection
- Adjustable Sampling Rate
- 3000 VDC Intra-module Isolation

Introduction

The I-87017 is an analog input module with an extremely high-quality protection mechanism where the overvoltage protection can be as high as +/-35 VDC. The input type can be set to either voltage or current. The sampling rate for the I-87017 is can be adjusted to either fast mode or normal mode. The I-87017 also provides 3000 VDC intra-module isolation.

Applications

- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

System Specifications

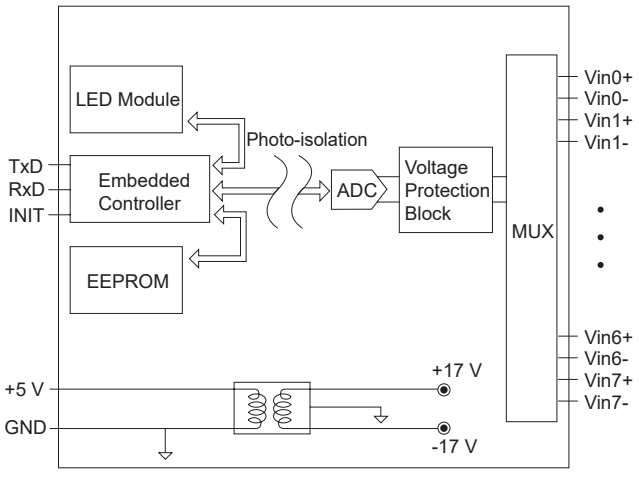
COM Ports	
Baud Rate	115200 bps
Data Format	N, 8, 1
Protocol	DCON
Isolation	
Intra-module Isolation	3000 VDC
LED Indicators	
Status	1 x Power and Communication 16 x I/O
Isolation	
Intra-module Isolation, Field-to-Logic	3000 VDC
Power	
Power Consumption	1.1 W Max.
Mechanical	
Dimensions (W x L x H)	31 mm x 116 mm x 88 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-30 ~ +75 °C
Humidity	5 ~ 95% RH, Non-condensing

I/O Specifications

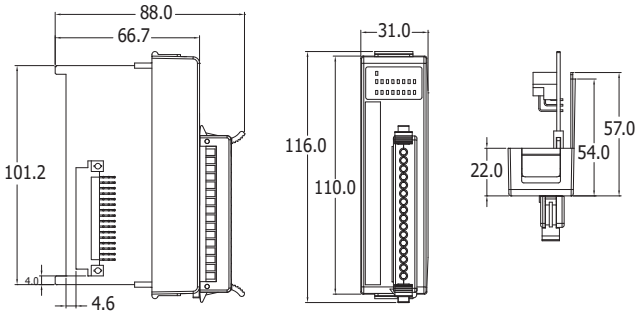
Analog Input		
Channels		8
Type		Voltage Current
Range		±10 VDC, ±5 VDC, ±1 VDC ±500 mV, ±150 mV 0 ~ +20 mA, +4 ~ +20 mA, -20 mA ~ +20 mA (Requires Optional External 125 Ω Resistor)
Resolution		16-bit
Accuracy	Normal Mode	±0.1% of FSR
	Fast Mode	±0.5% of FSR
Sampling Rate	Normal Mode	10 Hz (Total)
	Fast Mode	50 Hz (Total)
-3dB Bandwidth	Normal Mode	15.7 Hz
	Fast Mode	78.7 Hz
Input Impedance		20 MΩ
Span Drift		±25 ppm/°C
Common Mode Rejection		86 dB
Overvoltage Protection		-35 VDC ~ +35 VDC

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Internal I/O Structure



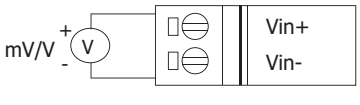
Dimensions (Units: mm)



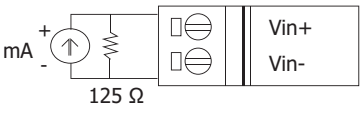
Left View | Front View | Top View

Wire Connections

Voltage Input Wire Connection

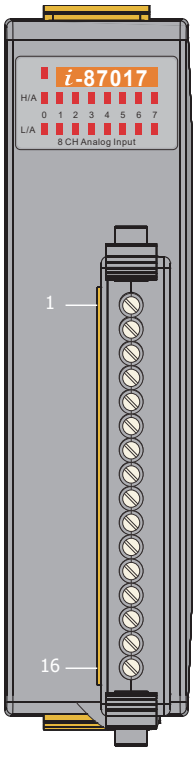


Current Input Wire Connection



Note: When connecting to a current source, an optional external 125 Ω resistor is required.

Pin Assignments



Terminal No.	Pin Assignment
01	Vin0+
02	Vin0-
03	Vin1+
04	Vin1-
05	Vin2+
06	Vin2-
07	Vin3+
08	Vin3-
09	Vin4+
10	Vin4-
11	Vin5+
12	Vin5-
13	Vin6+
14	Vin6-
15	Vin7+
16	Vin7-

Ordering Information

I-87017 CR	8-ch AI Module (Blue Cover) (RoHS)
I-87017-G CR	8-ch AI Module (Gray Cover) (RoHS)

Accessories

 2AB125R	125 Ω, 0.1% DIP Resistor used for Current Type Input Modules

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