

I-87028CDW

8-channel Isolated Analog Output Module

Features

- 8-channel Analog Output
- Open Wire Detection for Current Output
- D-Sub 37-Pin Connector
- 4 kV ESD Protection
- Dual Watchdog
- Configurable Power-on Value
- Configurable Safe Value
- 3000 VDC Intra-module Isolation, Field-to-Logic
- Open Daughter Board Detection

Introduction

The I-87028CDW is an 8-channel current output module that features 3 kVDC channel-to-channel isolation and also features perchannel open wire detection for +4 to +20 mA outputs , together with 4 kV ESD protection as well as 3 kVDC intramodule isolation.



I-87024DW, I-87028CDW with DN-37-381-A and DB37 Male to Female Cable (Optional)

Applications

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

System Specifications

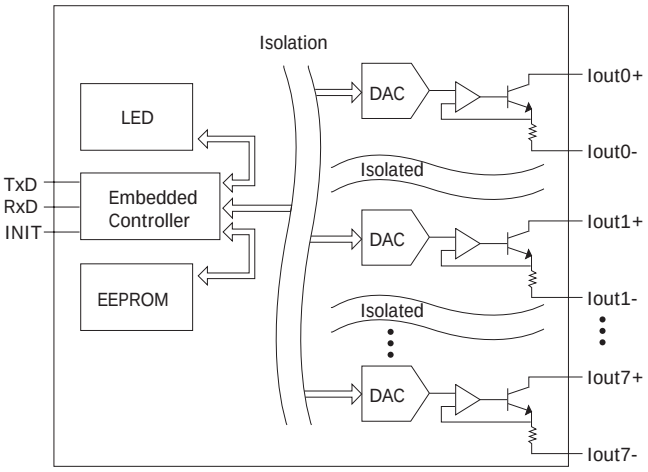
CPU Module	
Dual Watchdog	Module (1.6 Seconds), Communication (Programmable)
LED Indicators/Display	
System LED Indictors	1 as Power/Communication Indicator
Isolation	
Intra-module Isolation, Field-to-Logic	3000 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
	±8 kV Air for Random Point
Power	
Consumption	1 W Max.
Mechanical	
Dimensions (W × L × H)	30 mm × 115 mm × 85 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 95 % RH, Non-condensing

I/O Specifications

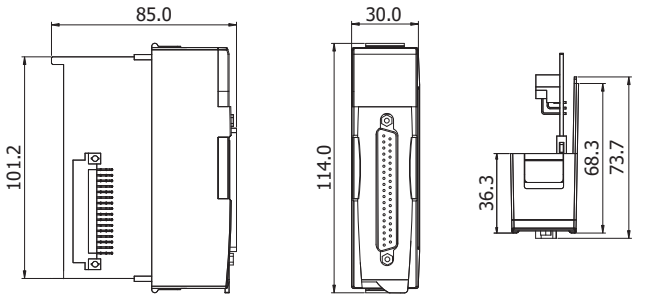
COM Port	
Ports	RS-485
Format	N, 8, 1
Baud Rate	1200 ~ 115200 bps
Protocol	DCON
Analog Output	
Channels	8
Type	Sink
Range	0 ~ +20 mA, +4 ~ +20 mA
Resolution	12-bit
Accuracy	±0.1% of FSR
DA Output Response Time	10 ms per channel
Programmable Output Slope	0.125 ~ 2048 mA/Second
Output Capacity	External +24 VDC @ 1050 Ω
Channel-to-Channel Isolation	3 kV
Open Wire Detection	+4 ~ +20 mA
Power-on Value	Yes
Safe Value	Yes

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Internal I/O Structure

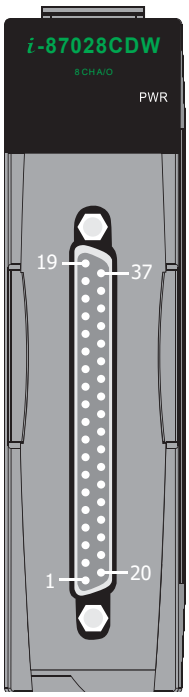


Dimensions (Units: mm)



Left View | Front View | Top View

Pin Assignments

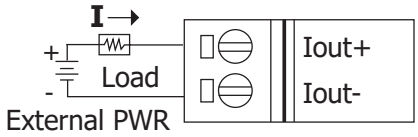


Pin Assignment	Terminal No.	Pin Assignment
Iout0+	19	
Iout0-	18	37 N.C
Iout1+	17	36 N.C
Iout1-	16	35 N.C
N.C.	15	34 N.C
Iout2+	14	33 N.C
Iout2-	13	32 N.C
Iout3+	12	31 N.C
Iout3-	11	30 N.C
N.C.	10	29 N.C
Iout4+	09	28 N.C
Iout4-	08	27 N.C
Iout5+	07	26 N.C
Iout5-	06	25 N.C
N.C.	05	24 N.C
Iout6+	04	23 N.C
Iout6-	03	22 N.C
Iout7+	02	21 N.C
Iout7-	01	20 N.C

37-pin Male D-Sub Connector

Wire Connections

Current Output Wiring



Accessories

	DN-37-A CR	Female DB37 to Screw Terminal Board (Pitch= 5.08 mm) with DIN-rail Mounting (RoHS) Include: CA-3710A (DB37 Male to Female Cable, 90º, 1 M)
	DN-37-381-A CR	Female DB37 to Screw Terminal Board (Pitch=3.81 mm) with DIN-rail Mounting (RoHS) Include: CA-3710A (DB37 Male to Female Cable, 90º, 1 M)
	CA-3705A CR CA-3710A CR CA-3715A CR	DB37 Male to Female Cable, 90º, 0.5 M/1 M/1.5 M (RoHS)
	CA-3710AM CR CA-3720AM CR CA-3730AM CR CA-3750AM CR CA-37100AM CR	DB37 Male to Female, with Molded Cable, 45º, 1 M/2 M/3 M/5 M/10 M (RoHS)

Ordering Information

I-87028CDW-G CR	8-channel 12-bit Channel-to-Channel Isolated Current Output Module with Open-wire Detection (RoHS)

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