

I-87063W

4-Channel Isolated Digital Input and
4-Channel Relay Output Module

Features

- 4-channel Digital Input and 4-channel Relay Output
- Sink-type and Source-type Digital Input
- Form C Power Relay Output
- Configurable Power-on Value
- Configurable Safe Value
- 4 kV ESD Protection
- 3750 Vrms Intra-module Isolation

Introduction

The I-87063W module provides 4 isolated Digital Input channels and 4 Form C Relay Output channels. All Digital Input channels can be used as 16-bit counters. In addition, either sink- or source-type Digital Input can be selected via the wire connections. The I-87063W includes 8 LED indicators that can be used to monitor the status of the Digital Input and Relay Output, and options are available for configuring power-on and safe values. 4 kV ESD protection and 3750 VDC intra-module isolation are also provided to enhance the noise protection capabilities of the module in harsh industrial environments.

System Specifications

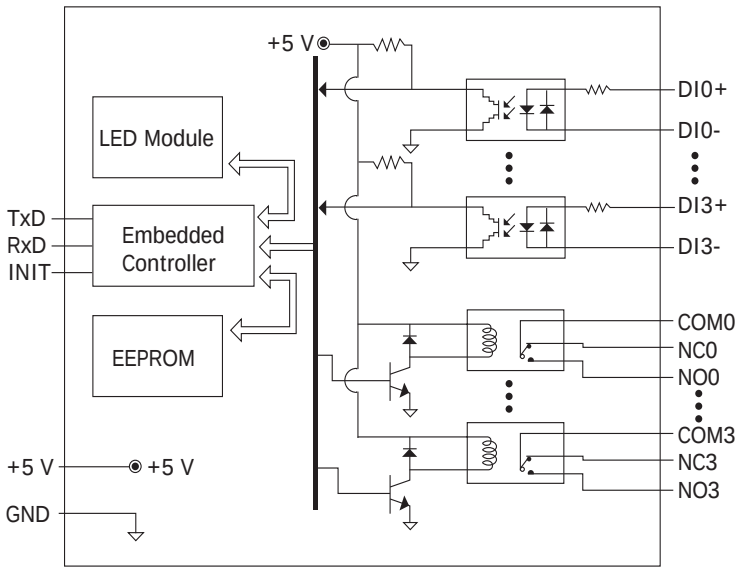
COM Port	
Ports	RS-485
Data Format	N, 8, 1
Baud Rate	1200 ~ 115200 bps
Protocol	DCON
CPU Module	
Dual Watchdog Timer	Module (1.6 Seconds), Communication (Programmable)
LED Indicators	
System LED Indicator	1
I/O LED Indicator	8
Isolation	
Intra-module Isolation, Field-to-Logic	3750 Vrms
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each port; ±8 kV Contact for Random Point
Power	
Consumption	1.5 W Max.
Mechanical	
Dimensions (W x L x H)	115 mm x 30 mm x 102 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 95 % RH, Non-condensing

I/O Specifications

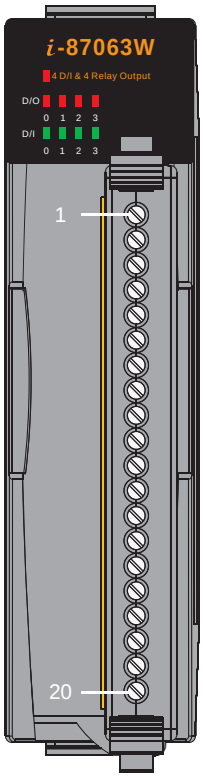
Digital Input/Counter	
Channels	4
Type	Wet Contact
Sink/Source (NPN/PNP)	Sink, Source
ON Voltage Level	+3.5 ~ +30 VDC
OFF Voltage Level	+1 VDC Max.
Max. Counts	16-bit (65535)
Frequency	100 Hz
Min. Pulse Width	5 ms
Input Impedance	3 kΩ, 0.5 W
Relay Output	
Channels	4, Form C
Type	Power Relay
Contact Rating	Form C: 5 A (NO)/3 A (NC) @ 30 VDC; 5 A (NO)/3 A (NC) @ 277 VAC
Operate Time	10 ms Max.
Release Time	5 ms Max.
Electrical Endurance	1×10^5 ops.
Mechanical Endurance	5×10^6 ops.
Power on Value	Yes
Safe Value	Yes

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Internal I/O Structure

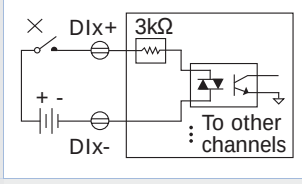
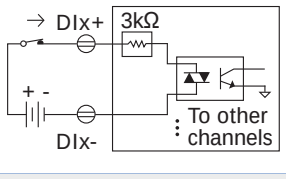
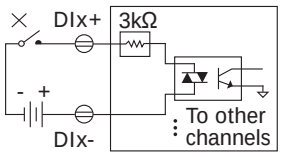
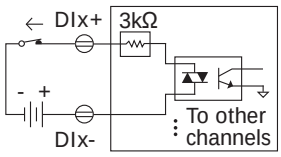
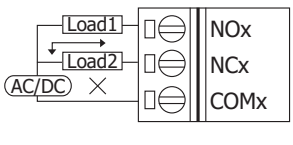
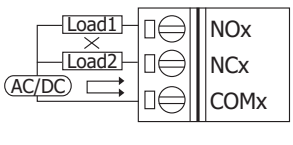


Pin Assignments

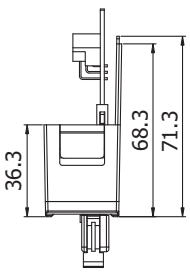


Terminal No.	Pin Assignment
01	DI0+
02	DI0-
03	DI1+
04	DI1-
05	DI2+
06	DI2-
07	DI3+
08	DI3-
09	NO0
10	NC0
11	COM0
12	NO1
13	NC1
14	COM1
15	NO2
16	NC2
17	COM2
18	NO3
19	NC
20	COM3

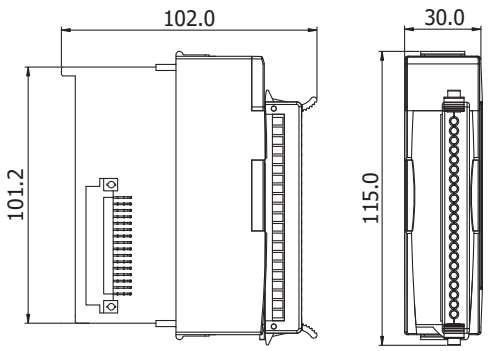
Wire Connections

Input Type	ON State Readback as 1	OFF State Readback as 0
	OPEN or < +1 VDC	**+4 ~ +30 VDC**
Sink		
	OPEN or < +1 VDC	**+4 ~ +30 VDC**
Source		
Output Type	**ON State Readback as 1**	**OFF State Readback as 0**
	Relay ON	**Relay OFF**
Relay Output		

Dimensions (Units: mm)



Top View



Left View | Front View

Ordering Information

I-87063W-G CR	4-channel Isolated Digital Input and 4-channel Relay Output Module using the DCON Protocol (RoHS)

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