



I-8042W-G

16-channel Isolated Digital Input & 16-channel Isolated Digital Output Module

Features

- Digital Input for Sink Type or Source Type
- Digital Outputs for Sink Type
- Photocouple-isolation protection
- ± 4 kV ESD Protection
- 3750 Vrms Intra-module Isolation
- Wide Operating Temperature Range: $-25 \sim +75$ °C



Introduction

I-8042W offers 16 channels for Digital Input and 16-Channel for Digital Output. Each of which features Photocouple-isolation. I-8042W supports Sink Type Output with short-circuits protection. There are option for Power-on value and safe value for your consideration. About Input, you can chose Sink Type or Source Type input by wire connection. I-8042W also has 32 LED indicators for channel status. ± 4 kV ESD protection and 3750 Vrms intra-module isolation are standard.

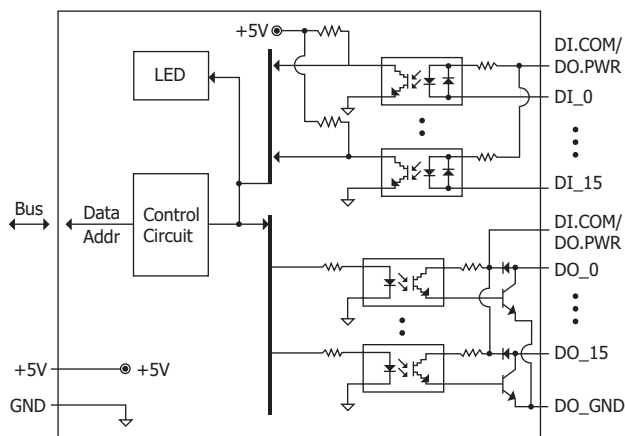
System Specifications

LED Indicators/Display	
System LED Indictors	1 LED as Power Indicator
I/O LED Indicators	32 LEDs as Digital Input Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3750 Vrms
EMS Protection	
ESD (IEC 61000-4-2)	± 4 kV Contact for each Terminal
Power	
Power Consumption	1.5 W max.
Mechanical	
Dimensions (W x L x H)	30 mm x 85 mm x 114 mm
Environment	
Operating Temperature	$-25 \sim +75$ °C
Storage Temperature	$-40 \sim +85$ °C
Humidity	10 ~ 90% RH, Non-condensing

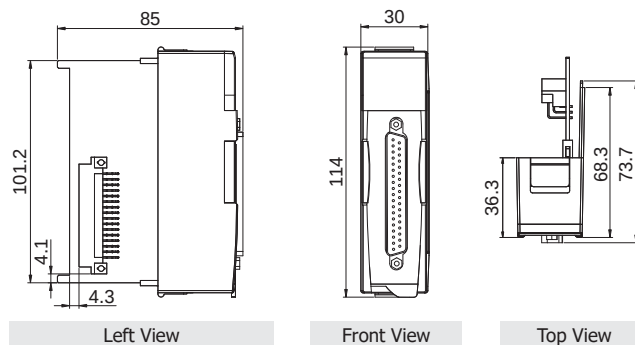
I/O Specifications

Digital Input	
Channels	16
Type	Wet Contact
Sink/Source	Sink
ON Voltage Level	+10 ~ +30 VDC
OFF Voltage Level	+4 VDC max.
Input Impedance	3 k Ω , 0.33W
Digital Output	
Channels	16
Type	Isolated Open Collector
Sink/Source (NPN/PNP)	Sink
Load Voltage	+5 ~ +30 VDC
Max. Load Current	100 mA/Channel
Overload Protection	Yes
Short Circuit Protection	-
Power-on Value	Yes
Safe Value	Yes

Internal I/O Structure



Dimensions (Units: mm)



Wire Connections

Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Relay Contact (Sink)	Relay ON 	Relay OFF
TTL/CMOS Logic (Sink)	Voltage > +3.5 V 	Voltage < +1 V
NPN Output (Sink)	Open Collector ON 	Open Collector OFF
PNP Output (Sink)	Open Collector ON 	Open Collector OFF
Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Drive Relay	Relay ON 	Relay OFF
Resistance Load		

Pin Assignments

Pin Assignment	Terminal	No.	Pin Assignment
DI.COM/DO.PWR	19	37	DI.COM/DO.PWR
DO.GND	18	36	DO.GND
DO.GND	17	35	DO_15
DI_15	16	34	DO_14
DI_14	15	33	DO_13
DI_13	14	32	DO_12
DI_12	13	31	DO_11
DI_11	12	30	DO_10
DI_10	11	29	DO_9
DI_9	10	28	DO_8
DI_8	09	27	DO_7
DI_7	08	26	DO_6
DI_6	07	25	DO_5
DI_5	06	24	DO_4
DI_4	05	23	DO_3
DI_3	04	22	DO_2
DI_2	03	21	DO_1
DI_1	02	20	DO_0
DI_0	01		

37-pin Male D-Sub Connector

Ordering Information

I-8042W-G CR	16-channel Isolated Digital Input & 16-channel Isolated Digital Output Module (Gray Cover) (RoHS)
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Accessories

	DN-8K16P16R 16 channel input terminals and 16 channel relay outputs board
	DN-37-A CR I/O Connector Block with DIN-Rail Mounting and 37-pin D-Sub Connector (pitch: 5.08 mm)
	DN-37-381-A CR I/O Connector Block with DIN-Rail Mounting and 37-pin D-Sub Connector (pitch: 3.81 mm)
	CA-3705A Male-Female D-Sub Cable 0.5 m
	CA-3710A Male-Female D-Sub Cable 1 m

	CA-3715A Male-Female D-Sub Cable 1.5 m
	I-87042W + DN-8K16P16R