



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 V _{DC} Intra-module Isolation
CE FE KOHS

■ 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 Vpc intra-module isolation are standard.



I-8017DW, I-8040W, I-8040PW,
I-8041W, I-8041AW, I-8041PW, I-8042W,
I-87017DW, I-87024DW, I-87028CDW,
I-87040W, I-87040PW, I-87041W, I-87041PW and I-87042W
with DN-37-381-A & DB37 Male to Female Cable
(Optional)



I-8042W and I-87042W with DN-8K16P16R & DB37 Male to Female Cable (Optional)

■ System Specifications

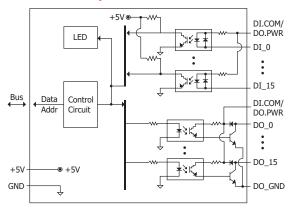
LED Indicators/Display				
System LED Indictors	1 LED as Power Indicator			
I/O LED Indicators	32 LEDs as Digital Input Indicators			
Isolation				
Intra-module Isolation, Field-to-Logic	3750 VDC			
EMS Protection				
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal			
Power				
Power Consumption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

■ I/O Specifications

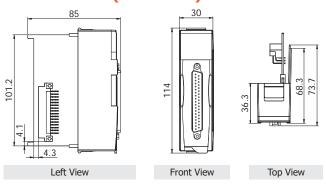
Digital Input			
Channels	16		
Туре	Wet Contact		
Sink/Source	Sink		
ON Voltage Level	+10 ~ +30 VDC		
OFF Voltage Level	+4 VDC max.		
Input Impedance	3 kΩ, 0.33W		
Digital Output			
Channels	16		
Туре	Isolated Open Collector		
Sink/Source (NPN/PNP)	Sink		
Load Voltage	+5 ~ +30 VDC		
Max. Load Current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

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■ Internal I/O Structure



■ Dimensions (Units: mm)

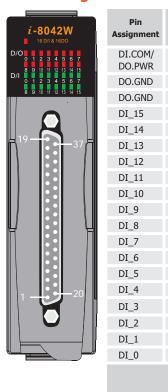


Wire Connections

Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0		
	Relay ON	Relay OFF		
Relay Contact (Sink)	- ☐ DI.COM/DO.GND - ☐ DIX	□ □ □ DI.COM/DO.GND □ DIx		
TTL/CMOS Logic (Sink)	Voltage > +3.5 V	Voltage < +1 V		
	Logic Level Low Logic Power DIX	Logic Level High DI.COM/DO.GND DIX		
NPN Output (Sink)	Open Collector ON	Open Collector OFF		
	ON LILE DI.COM/DO.GND DIX	OFF ↓ × DI.COM/DO.GND DIX		
PNP Output (Sink)	Open Collector ON	Open Collector OFF		
	ON THE PROPERTY OF THE PROPERT	OFF LX		

Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0		
Drive Relay	Relay ON	Relay OFF		
	DDLCOM/DO.PWR	DI.COM/DO.PWR		
Resistance Load	DI.COM/DO.PWR DOX DO.GND	DI.COM/DO.PWR DOX DO DO.GND		

■ Pin Assignments



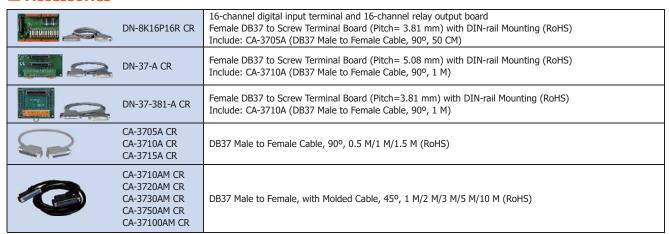
Pin Assignment	Terminal	0	No.	Pin Assignment
DI.COM/DO.PWR DO.GND DO.GND DI_15 DI_14 DI_13 DI_12 DI_11 DI_10	19 18 17 16 15 14 13 12		37 36 35 34 33 32 31 30	DI.COM/ DO.PWR DO.GND DO_15 DO_14 DO_13 DO_12 DO_11 DO_11
DI_9 DI_8 DI_7 DI_6 DI_5 DI_4 DI_3 DI_2 DI_1 DI_0	10 09 08 07 06 05 04 03 02		29 28 27 26 25 24 23 22 21 20	DO_9 DO_8 DO_7 DO_6 DO_5 DO_4 DO_3 DO_2 DO_1 DO_0
		U		in Male ıb Connector

Ordering Information

I-8042W-G CR

16-ch Isolated DI (Wet) and 16-ch Isolated DO (Sink, NPN) Module (Gray Cover) (RoHS)
Includes CA-4002F (DB37 connector Female with plastic cover)

Accessories



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