

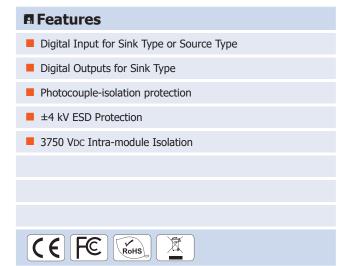




I-8042

I-8042-G

16-ch Isolated DI and 16-ch Isolated DO Module



■ Introduction

I-8042 offers 16 channels for Digital Input and 16-Channel for Digital Output.Each of which features Photocouple-isolation. I-8042 supports Sink Type Output. 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 VDC intra-module isolation are standard.



I-8040, I-8041, I-8042, I-87040, I-87041 with DN-37-381-A & DB37 Male to Female Cable (Optional)



I-8040, I-8041, I-8042, I-87040, I-87041 with DN-37-A & DB37 Male to Female Cable (Optional)



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

■ System Specifications

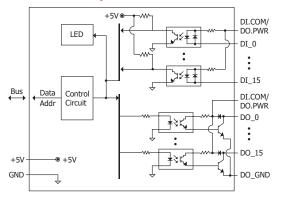
LED Indicators/Display		
System LED Indictors	1 LED as Power Indicator	
I/O LED Indicators	32 LEDs as Digital I/O Indicators	
Isolation		
Intra-module Isolation, Field-to-Logic	3750 VDC	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal	
Power		
Power Consumption	1.5 W max.	
Mechanical		
Dimensions (W x L x H)	31 mm x 114 mm x 66 mm	
Environment		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-40 ~ +85 °C	
Humidity	10 ~ 90% RH, Non-condensing	

■ I/O Specifications

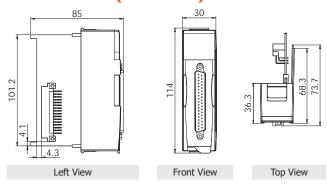
Digital Input		
Channels	16	
Туре	Wet Contact	
Sink/Source	Sink	
ON Voltage Level	+3.5 ~ +30 VDC	
OFF Voltage Level	+1 VDC max.	
Input Impedance	3 kΩ, 0.33W	
Digital Output		
Channels	16	
Туре	Isolated Open Collector	
Sink/Source (NPN/PNP)	Sink	
Load Voltage	+5 ~ +30 VDC	
Max. Load Current	100 mA/Channel	

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■ Internal I/O Structure



■ Dimensions (Units: mm)

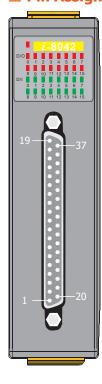


■ Wire Connections

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.PWR - T. Relay Close	+ DI.COM/DO.PWR Relay Open	
TTL/CMOS	Voltage > +3.5 V	Voltage < +1 V	
Logic (Sink)	Logic Power DI.COM/DO.PWR	Logic Power Country Co	
NPN Output (Sink)	Open Collector ON	Open Collector OFF	
	ON LON/DO.PWR	OFF ₹ X THT D⊕ DI.COM/DO.PWR	
	Open Collector ON	Open Collector OFF	
PNP Output (Sink)			

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

■ Pin Assignments



lielits				
Pin Assignment	Terminal	0	No.	Pin Assignment
Assignment DI.COM/ DO.PWR DO.GND DO.GND DI_15 DI_14 DI_13 DI_12 DI_11 DI_10 DI_9 DI_8 DI_7 DI_6 DI_5 DI_4 DI_5 DI_4 DI_5 DI_4 DI 3	19 18 17 16 15 14 13 12 11 10 09 08 07 06 05		37 36 35 34 33 32 31 30 29 28 27 26 25 24 23	DI.COM/DO.PWR DO.GND DO_15 DO_14 DO_13 DO_12 DO_11 DO_10 DO_9 DO_8 DO_7 DO_6 DO_5 DO_4 DO_3
DI_3	03		22	DO_2
DI_1 DI 0	02 01		21 20	DO_1 DO_0
		0		in Male ib Connector

■ Ordering Information

I-8042 CR	16-ch Isolated DI (Wet) and 16-ch Isolated DO (Sink, NPN) Module (Blue Cover) (RoHS) Includes CA-4002F (DB37 connector Female with plastic cover)	
I-8042-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

	DN-8K16P16R CR	16-channel digital input terminal and 16-channel relay output board Female DB37 to Screw Terminal Board (Pitch= 3.81 mm) with DIN-rail Mounting (RoHS) Include: CA-3705A (DB37 Male to Female Cable, 90°, 50 CM)
	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, 90°, 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, 90°, 1 M)
23	CA-3705A CR CA-3710A CR CA-3715A CR	DB37 Male to Female Cable, 90°, 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, 45°, 1 M/2 M/3 M/5 M/10 M (RoHS)

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