



I-8041 I-8041-G

32-ch Isolated DO Module

Features

- 32-channel Open Collector Output
- Sink Type Digital Output
- 3750 VDC Intra-module Isolation
- Each Digital channel has its own status LED

Introduction

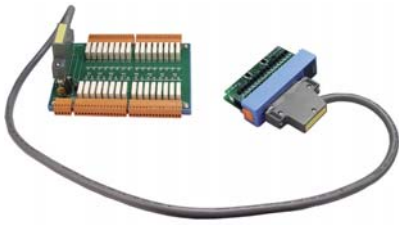
The I-8041 module offers 32 Digital Output channels, each of which features Photocouple isolation. The I-8041 supports Sink Type Output using an open collector. The I-8041 includes 32 LED indicators that can be used to monitor the status of the Digital Output channels. ±4 kV ESD protection and 3750 VDC intra-module isolation is provided as standard. The I-8041 can be paired with a daughterboard, such as the DN-37-381-A CR for easy wiring, or the DN-8K32R for Relay Output.



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-8041 and I-87041 with DN-8K32R & DB37 Male to Female Cable (Optional)

System Specifications

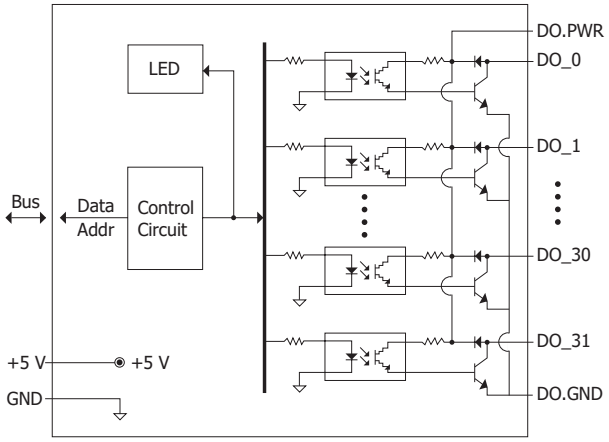
LED Indicators/Display	
System LED Indicator	1 LED as Power Indicator
I/O LED Indicator	32 LEDs as Digital Output Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3750 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal
Power	
Power Consumption	1.5 W max.
Mechanical	
Dimensions (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

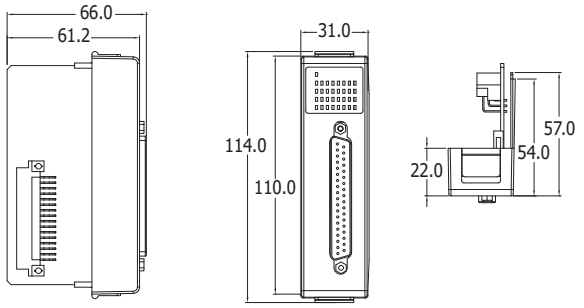
Digital Output	
Channels	32
Type	Isolated Open Collector
Sink/Source (NPN/PNP)	Sink
Load Voltage	+5 ~ +30 VDC
Max. Load Current	100 mA/Channel

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Internal I/O Structure

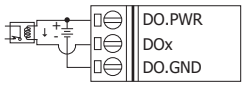
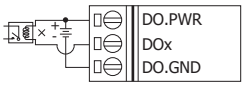
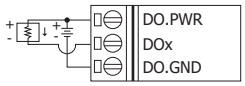
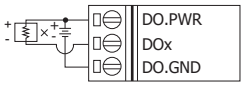


Dimensions (Units: mm)

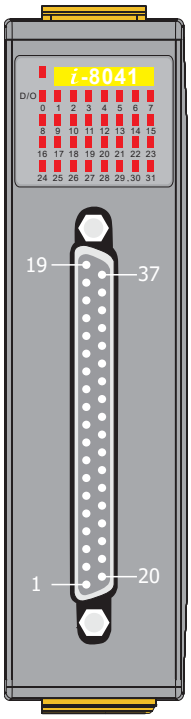


Left View | Front View | Top View

Wire Connections

Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
	Relay ON	Relay OFF
Drive Relay	 DO.PWR DOx DO.GND	 DO.PWR DOx DO.GND
Resistance Load	 DO.PWR DOx DO.GND	 DO.PWR DOx DO.GND

Pin Assignments



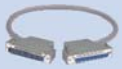
Pin Assignment	Terminal No.	Pin Assignment
DO.PWR	19	
DO.GND	18	37 DO.PWR
DO.GND	17	36 DO.GND
DO_15	16	35 DO_31
DO_14	15	34 DO_30
DO_13	14	33 DO_29
DO_12	13	32 DO_28
DO_11	12	31 DO_27
DO_10	11	30 DO_26
DO_9	10	29 DO_25
DO_8	09	28 DO_24
DO_7	08	27 DO_23
DO_6	07	26 DO_22
DO_5	06	25 DO_21
DO_4	05	24 DO_20
DO_3	04	23 DO_19
DO_2	03	22 DO_18
DO_1	02	21 DO_17
DO_0	01	20 DO_16

37-pin Male D-Sub Connector

Ordering Information

I-8041 CR	32-ch Isolated DO (Sink, NPN, 5~30VDC) Module (Blue Cover) (RoHS) Includes CA-4002F (DB37 connector Female with plastic cover)
I-8041-G CR	32-ch Isolated DO (Sink, NPN, 5~30VDC) Module (Gray Cover) (RoHS) Includes CA-4002F (DB37 connector Female with plastic cover)

Accessories

	DN-8K32R CR	32-channel Relay Output Board (RoHS) Include: CA-3705A (DB37 Male to Female Cable, 90º, 0.5 M)
	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)

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