

I-8041AW | I-8041W | I-8041PW

32-channel Isolated Digital Output Module

Features

- 32 Open Collector Output Channels
- Support Sink or Source Type Digital Output
- Photocouple Isolation Protection
- Channel Status LED Indicators
- 4 kV ESD Protection
- 3750 VDC Intra-module Isolation

Introduction

The I-8041W/I-8041PW/I-8041AW module offers32 Digital Output channels, each of which features Photocouple isolation. The I-8041W/I-8041PW supports Sink Type Output using an open collector and I-8041AW supports Source Type Output with short circuit protection. The I-8041W/I-8041PW/I-8041AW 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-8041W/I-8041PW/I-8041AW can be paired with a daughterboard, such as the DN-37-381-A CR for easy wiring, or the DN-8K32R for Relay Output.

The I-8041PW integrates over-current, over-voltage and shortcircuit functionality. ICP DAS recommends selecting either the "PW" version of the digital output module for industrial use. ICP DAS offers a variety of options. ICP DAS recommends selecting either the "AW" version of the Digital Output Module for industrial use.

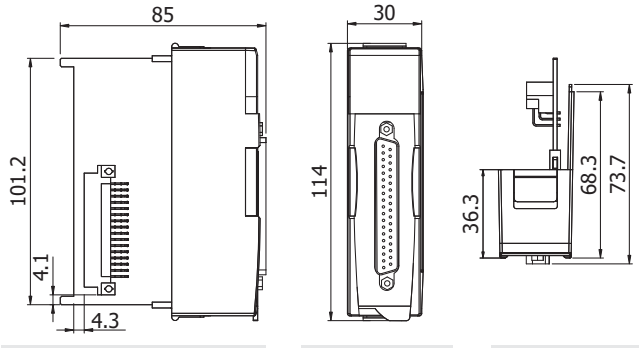


I-8041AW, I-8041W and I-8041PW with DN-37-381-A and DB37 Male to Female Cable (Optional)



I-8041AW, I-8041W and I-8041PW with DN-8K32R and DB37 Male to Female Cable (Optional)

Dimensions (Units: mm)



Left View | Front View | Top View

System Specifications

Model	I-8041AW	I-8041W	I-8041PW
LED Indicators/Display			
System LED Indictors	1 LED as Power Indicator		
I/O LED Indicators	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)	30 mm x 114 mm x 85 mm		
Environment			
Operating Temperature	-25 ~ +75 °C		
Storage Temperature	-30 ~ +85 °C		
Humidity	5 ~ 95 % RH, Non-condensing		

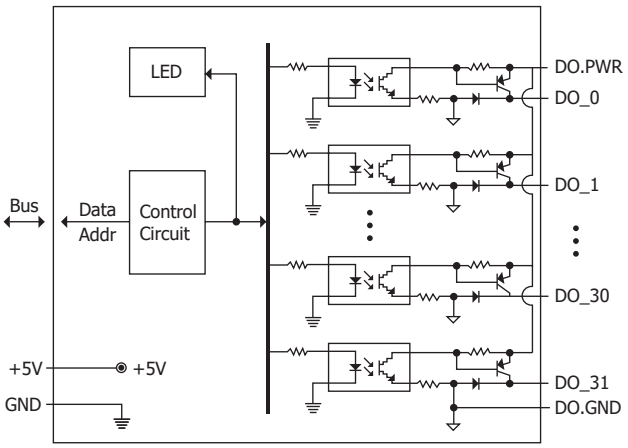
I/O Specifications

Model	I-8041AW	I-8041W	I-8041PW
Digital Output			
Channels	32		
Type	Isolated Open Collector		
Sink/Source (NPN/PNP)	Source	Sink	
Load Voltage	+5 ~ +30 VDC		+10 ~ +50 VDC
Load Current	100 mA/Channel		
Overvoltage Protection	-		60 VDC
Overload Protection	-		1.1 A
Short-circuit Protection	-		Yes

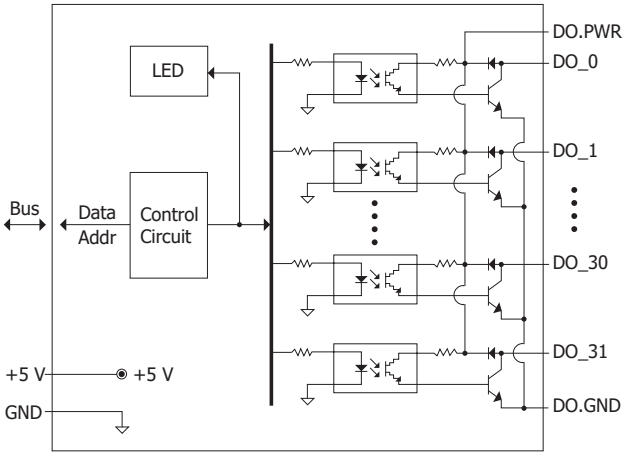
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Internal I/O Structure

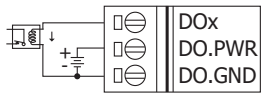
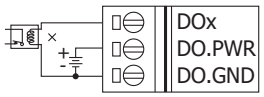
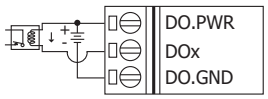
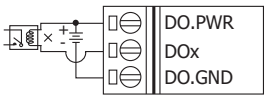
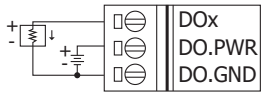
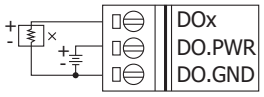
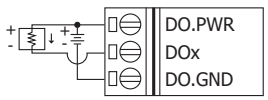
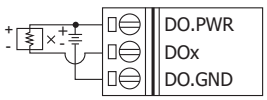
I-8041AW



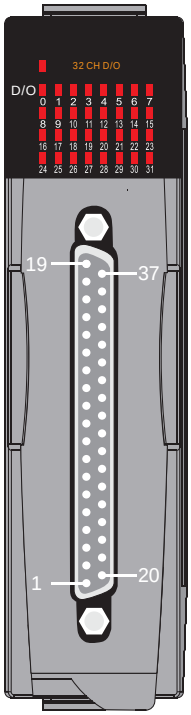
I-8041W/I-8041PW



Wire Connections

Output Type	I-8041AW		I-8041W/I-8041PW	
	ON State Readback as 0	OFF State Readback as 1	ON State Readback as 0	OFF State Readback as 1
Drive Relay				
Resistance Load				

Pin Assignments



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

37-pin Male D-Sub Connector

Accessories

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)

CA-3705A CR/CA-3710A/CA-3715A CR



DB37 Male to Female Cable, 90°, 0.5 M/1 M/1.5 M (RoHS)

CA-3710AM/CA-3720AM/CA-3730AM/ CA-3750AM/CA-37100AM CR



DB37 Male to Female, with Molded Cable, 45°, 1 M/2 M/3 M/5 M/10 M (RoHS)

Ordering Information

I-8041AW-G CR	32-channel Isolated DO (Source, 5 ~ 30 VDC) Module (RoHS)
I-8041W-G CR	32-channel Isolated DO (Sink, 5 ~ 30 VDC) Module with Low Pass Filter (RoHS)
I-8041PW-G CR	32-channel Isolated DO (Sink, 10 ~ 50 VDC) Module (RoHS)

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