



I-8050 I-8050-G

16-ch Universal Digital I/O Module

Features

- 16-channel Universal Digital Input / Digital Output
- Photocouple-isolation protection
- ±4 kV ESD Protection
- 3750 VDC Intra-module Isolation

Introduction

I-8050 is a 16-channel Universal Digital I/O module. Each channel can be configured to be a Digital Input or Digital Output by programming. Each of which features Photocouple-isolation. I-8050 supports Sink Type Output with short-circuits protection. There are option for power on value and safe value for your consideration. All channels have ±4 kV ESD protection and 3750 VDC intramodule isolation are standard.

System Specifications

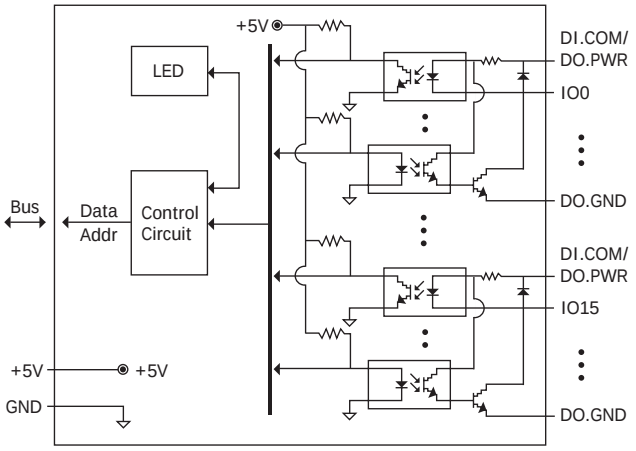
LED Indicators/Display	
System LED Indictors	1 LED as Power Indicator
I/O LED Indicator	16 LEDs as Digital Input / Output Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	3750 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal
Power	
Power Consumption	1 W max.
Mechanical	
Dimensions (W x L x H)	31 mm x 116 mm x 88 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 90% RH, Non-condensing

I/O Specifications

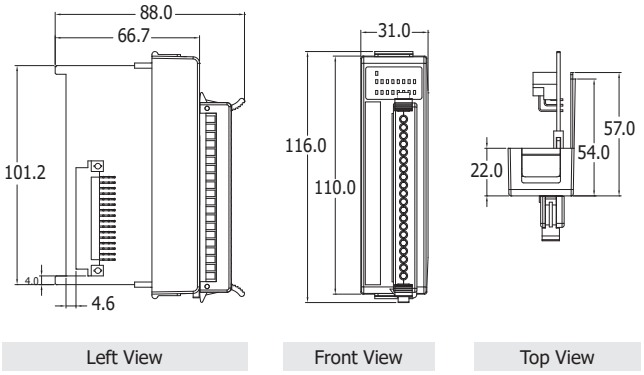
Digital Input	
Channels	One Common for All 16-channel
Type	Wet Contact
Sink/Source	Sink
ON Voltage Level	+3.5 ~ +30 VDC
OFF Voltage Level	+1 VDC max.
Input Impedance	3 kΩ, 0.25W
Digital Output	
Channels	One Common for All 16-channel
Type	Isolated Open Collector
Sink/Source	Sink
Load Voltage	+5 ~ +30 VDC
Max. Load Current	100 mA/Channel

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Internal I/O Structure

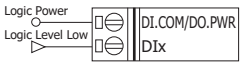
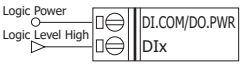
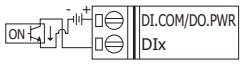
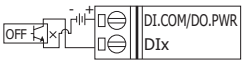
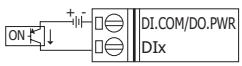
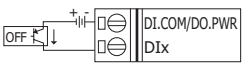


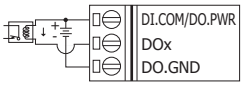
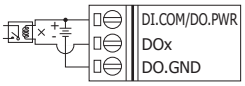
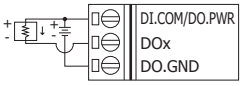
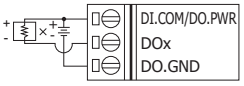
Dimensions (Units: mm)



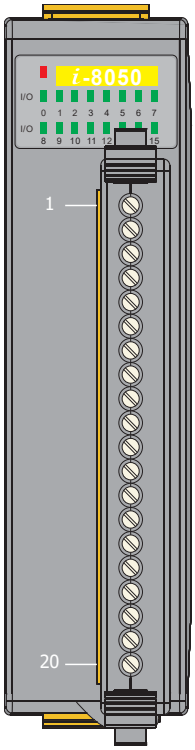
Left View | Front View | Top View

Wire Connections

Input Type	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
Relay Contact	Relay ON	Relay OFF
		
TTL/ CMOS Logic	Voltage > 10V	Voltage < 4V
		
NPN Output	Open Collector ON	Open Collector OFF
		
PNP Output	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



Terminal No.	Pin Assignment
01	IO0
02	IO1
03	IO2
04	IO3
05	IO4
06	IO5
07	IO6
08	IO7
09	IO8
10	IO9
11	IO10
12	IO11
13	IO12
14	IO13
15	IO14
16	IO15
17	DO.GND
18	DO.GND
19	DI.COM/DO.PWR
20	DI.COM/DO.PWR

Ordering Information

I-8050 CR	16-ch Universal Digital I/O Module (Blue Cover) (RoHS)
I-8050-G CR	16-ch Universal Digital I/O Module (Gray Cover) (RoHS)

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000