



**I-8055**

8-ch Non-isolated DI and 8-ch Non-isolated DO Module



**I-8055-G**

**Features**

- 8-channel Non-isolated Digital Input and 8-channel Non-isolated Digital Output
- Sink-type Digital Output Channels
- Dry Contact Digital Input Channels
- 4 kV ESD Protection



**Introduction**

The I-8055 module offers 8 Non-isolated Digital Input channels and 8 Non-isolated Digital Output channels. The I-8055 supports sink-type Digital Output and Digital Input with dry contact connections. The I-8055 includes 16 LED indicators that can be used to monitor the status of the Digital Input and Digital Output channels. 4 kV ESD protection is provided for the Digital Input and Digital Output channels as standard.

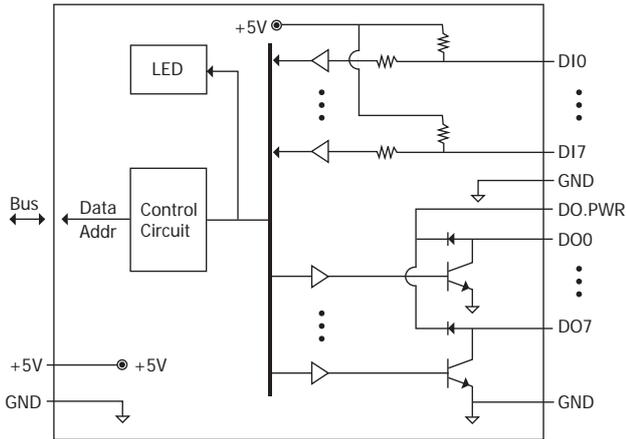
**System Specifications**

LED Indicators/Display	
System LED Indicators	1 as Power Indicator
I/O LED Indicators	16 LEDs as Digital Input & Digital Output Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	-
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

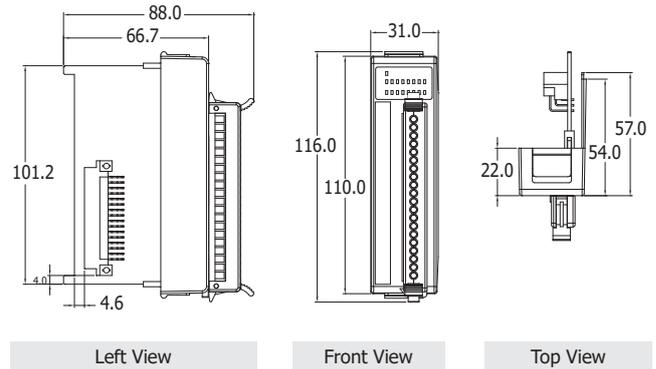
**I/O Specifications**

Digital Input	
Channels	8 Non-isolated Digital logic
Type	Dry Contact
Sink/Source (NPN/PNP)	Source
ON Voltage Level	Connect to GND
OFF Voltage Level	Open
Digital Output	
Channel	8
Type	Non-isolated Open Collector
Sink/Source (NPN/PNP)	Sink
Load Voltage	+5 ~ +30 VDC
Max. Load Current	100 mA/Channel

## Internal I/O Structure



## Dimensions (Units: mm)

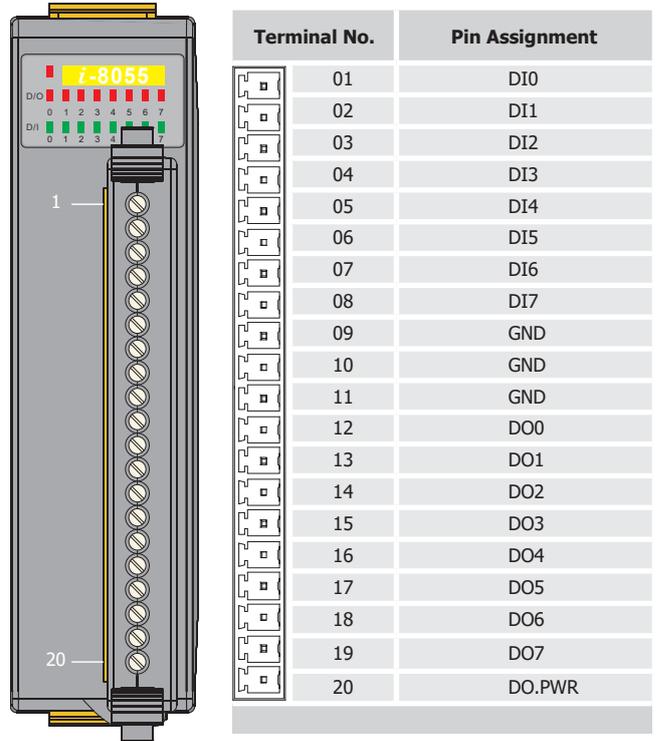


## Wire Connections

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 < 1 V 	Voltage > 3.5 V 
Open Collector	Open Collector ON 	Open Collector OFF 

Input 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



## Ordering Information

<b>I-8055 CR</b>	8-ch Non-isolated DI (Dry) and 8-ch Non-isolated DO (Sink, NPN) Module (Blue Cover) (RoHS)
<b>I-8055-G CR</b>	8-ch Non-isolated DI (Dry) and 8-ch Non-isolated DO (Sink, NPN) Module (Gray Cover) (RoHS)