

I-9048

8-channel Digital Input with Interrupt Module

Features

- Isolated or Non-isolated TTL Input Jumper Selectable
- Rising/Falling-edge Interrupts Programmable
- Supports Slot0, Slot1, Slot2, or Slot3 only
- Channel Status LED Indicators
- 4 kV ESD Protection
- 1500 VDC Intra-module Isolation
- Wide Operating Temperature Range: -25 ~ +75 °C

Introduction

The I-9048 is an 8-channel digital input module with hardware interrupt capability for real-time system application. Each channel can be programmed as an interrupt input channel to invoke an interrupt on falling edges, rising edges or both falling and rising edges.

System Specifications

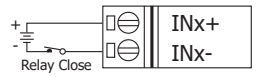
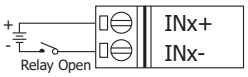
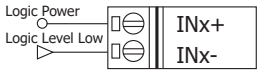
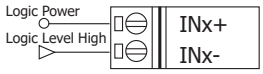
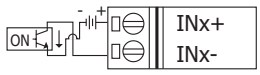
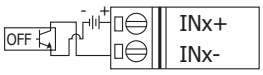
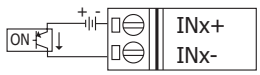
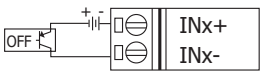
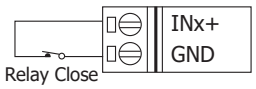
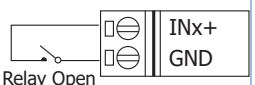
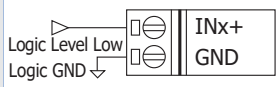
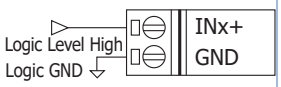
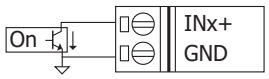
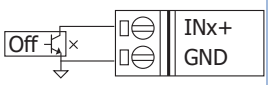
LED Display	
System LED Indicator	1 LED as Power Indicator
I/O LED Indicator	8 LEDs as Digital Input Indicators
Isolation	
Intra-module Isolation, Field-to-Logic	1500 VDC
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal, ±8 kV Air for Random Point
Power	
Power Consumption	1.75 W Max.
Mechanical	
Dimensions (W x L x H)	31 mm x 134 mm x 144 mm
Environment	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~ 90% RH, Non-condensing

I/O Specifications

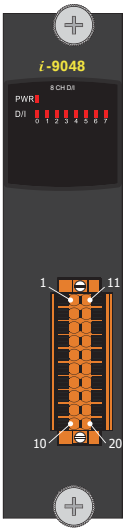
Digital Input		
Channels		16
Sink/Source (NPN/PNP)		Sink/Source
Input Type		Dry, Wet
Isolated TTL	On Voltage Level	+4 V ~ +30 V
	Off Voltage Level	0 V ~+1 V
Non-Isolated TTL	On Voltage Level	0 V ~ +0.8 V
	Off Voltage Level	+2 V ~ +5 V
Input Impedance		2.4 KΩ, 0.5 W
Built-in Isolated Power Supply		200 mA @ 5 V

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Wire Connections

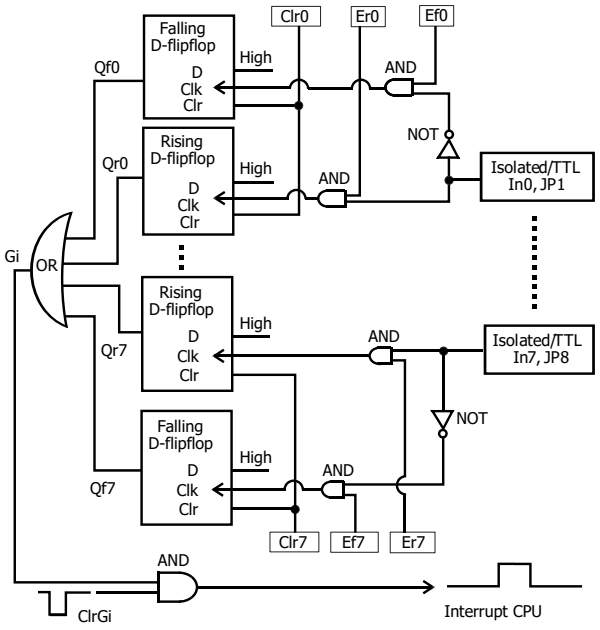
Input Type	ON State Readback as 0	OFF State Readback as 1
Isolated		
Relay Contact	**Relay ON** 	**Relay OFF** 
TTL/ CMOS Logic	**Voltage < +4 V** 	**Voltage > +4 V** 
NPN Output	**Open Collector ON** 	**Open Collector OFF** 
PNP Output	**Open Collector ON** 	**Open Collector OFF** 
Non-Isolated		
Relay Contact	**Relay ON** 	**Relay OFF** 
TTL/ CMOS Logic	**Voltage < +4 V** 	**Voltage > +4 V** 
Open Collector	**Open Collector ON** 	**Open Collector OFF** 

Pin Assignments

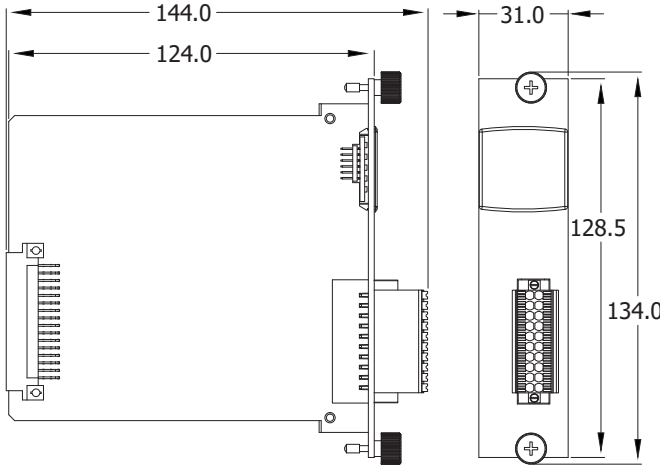


Pin Assignment	Terminal No.		Pin Assignment
GND	01	11	GND
IN0+	02	12	IN0-
IN1+	03	13	IN1-
IN2+	04	14	IN2-
IN3+	05	15	IN3-
IN4+	06	16	IN4-
IN5+	07	17	IN5-
IN6+	08	18	IN6-
IN7+	09	19	IN7-
ESV	10	20	EGND

Internal I/O Structure



Dimensions (Units: mm)



Left View | Front View

Ordering Information

I-9048 CR	8-channel Digital Input with Interrupt Module (RoHS)

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