



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

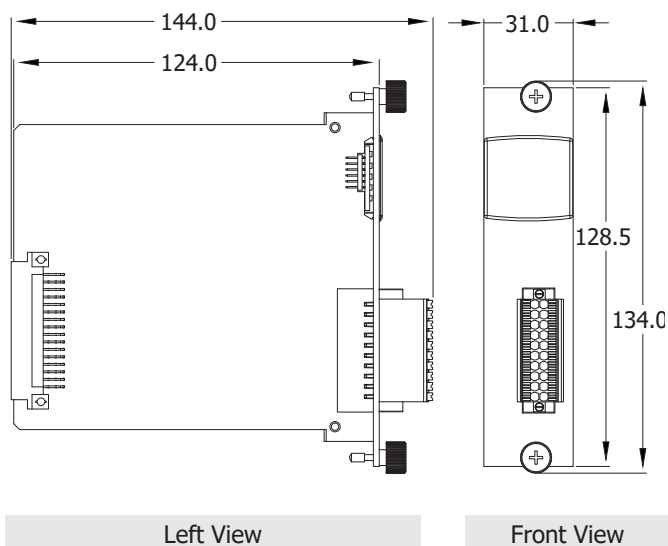
I/O Specifications

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

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

Dimensions (Units: mm)

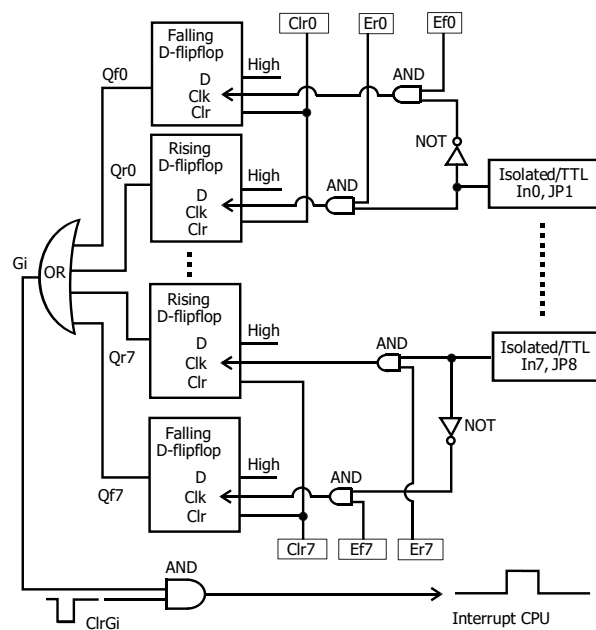


Pin Assignments



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



Ordering Information

I-9048 CR

8-channel Digital Input with Interrupt Module (RoHS)