



<b>⊞</b> Features		
■ 32-channel Digital Input		
■ Sink-type or Source-type Digital Input		
Compatible with 24 V Levels		
Channel Status LED Indicators		
Optional Daughter Boards for Easy Field Wiring		
■ 3750 Vrms Intra-module Isolation		
■ Wide Operating Temperature Range: -25 to +75°C		
CE FE ROHS		

#### **■** Introduction \_

The I-9040P is a 32-channel digital input module, each channel features photo-couple isolation and can be either sink- or source-type input, selectable by the wiring.

The ON voltage level of the I-9040P is ranged from +19 V to +30 V, while the OFF voltage level is under +11 V. It is suitable for +24 VDC digital input systems. By pairing with a daughter board such as the DN-37-381-A, the wiring is easier than ever. 32 LED indicators are provided for monitoring DI channel status, together with 4 kV ESD protection and 3750 VDC intra-module isolation.

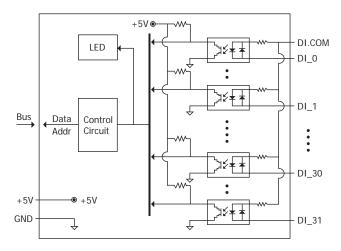
# **■ System Specifications**

Model	I-9040P		
LED Display			
System LED Indictors	1 LED as Power Indicator		
I/O LED Indicator	32 LEDs as Digital Input Indicators		
Isolation			
Intra-module Isolation, Field to logic	3750 Vrms		
EMS Protection			
ESD(IEC 61000-4-2)	±4 kV Contact for Each Terminal		
	±8 kV Air for Random Point		
Power			
Power Consumption	1 W Max.		
Mechanical			
Dimensions (L x W x H)	144 mm x 31 mm x 134 mm		
Environment			
Operating Temperature	-25 ~ +75°C		
Storage Temperature	-40 ∼ +85 °C		
Humidity	10 ~ 90% RH, Non-condensing		

## **■ I/O Specifications ■**

Model		I-9040P	
Digital Input			
Channels		32	
Sink/Source (NPN/PNP)		Sink/Source	
Input Type		One Common for All Digital Inputs	
On Voltage Level		+19 V ~ +30 V	
Off Voltage Level		+11 V Max.	
Input Impedance		3 KΩ, 0.5W	
Channel-to-channel Isolation		-	
Low Pass Filter			
Response time	OFF to ON	1ms/5ms/10ms/20ms/40ms/70ms (by Jumper select) or CPU parameter setting Default Setting is 10ms	
	ON to OFF	1ms/5ms/10ms/20ms/40ms/70ms (by Jumper select) or CPU parameter setting Default Setting is 10mss	

### Internal I/O Structure \_\_\_\_\_



# Pin Assignments \_\_\_\_\_

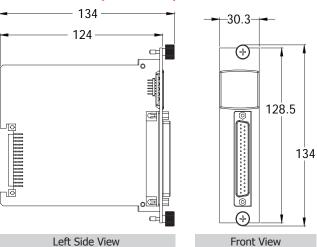


Pin Assignment	Te	rminal No	<b>D</b> .	Pin Assignment
DI.COM	19		37	DI.COM
NC	18		36	NC NC
NC	17		35	DI 31
DI_15	16			_
DI_14	15		34	DI_30
DI_13	14	•	33	DI_29
DI_12	13	•	32	DI_28
DI_11	12	•	31	DI_27
DI 10	11	•	30	DI_26
DI 9	10	•	29	DI_25
DI 8	09		28	DI_24
DI 7	08	•	27	DI_23
DI 6	07		26	DI_22
DI_5	06		25	DI_21
DI_3 DI 4	05		24	DI_20
DI_4	04		23	DI_19
DI_3	03		22	DI_18
_	03		21	DI_17
DI_1			20	DI_16
DI_0	01			-pin Male o Connector

#### Wire Connections \_\_\_\_\_

Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0	
	Relay ON	Relay OFF	
Relay Contact	+ DI.COM DIx	+ DI.COM Relay Open	
	Voltage > 19 V	Voltage < 11 V	
TTL/CMOS Logic	Logic Power DI.COM	Logic Power O Logic Level Low DI.COM DIX	
	Open Collector ON	Open Collector OFF	
NPN Output	ON COM DIX	OFF ₹ DI.COM DIX	
	Open Collector ON	Open Collector OFF	
PNP Output	ON TIPE DI COM DIX	OFF ₹ DI.COM	

## ■ Dimensions (Units: mm) \_

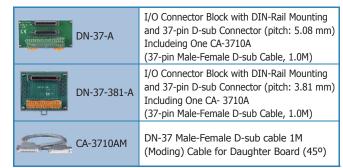


## Ordering Information -

I-9040P CR

32-channel Isolated Digital Input Module with Low Pass Filter (RoHS)

### Accessories \_



CA-3720AM	DN-37 Male-Female D-sub cable 2M (Moding) Cable for Daughter Board (45°)
CA-3730AM	DN-37 Male-Female D-sub cable 3M (Moding) Cable for Daughter Board (45°)
CA-3750AM	DN-37 Male-Female D-sub cable 5M (Moding) Cable for Daughter Board (45°)
CA-37100AM	DN-37 Male-Female D-sub cable 10M (Moding) Cable for Daughter Board (45°)