



R-9040

32-ch Isolated DI Redundant Module

Features

- 32 digital input (sink/source) channels
- Digital filter (1~32767 us)
- Input channel LED indication
- Termination board disconnection detection
- Digital input diagnostic function
- Redundant switching time (<1 ms)



Introduction

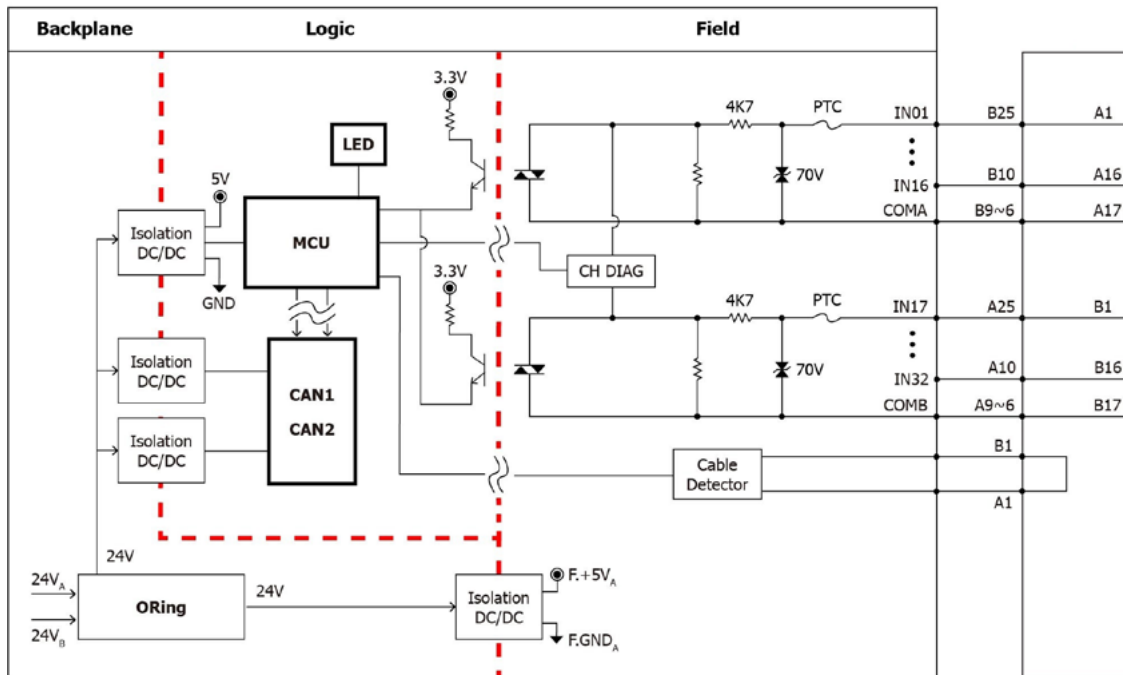
R-9040 has 32 digital input channels (sink/source mode). Users can use two input types according to different wiring methods. R-9040 provides LEDs to indicate the ON/OFF status of the input channels. It also provides 3000VDC isolation between the channels and the backplane bus, making it better able to prevent noise interference in industrial environments without affecting the RIO-98x0 system.

Specifications

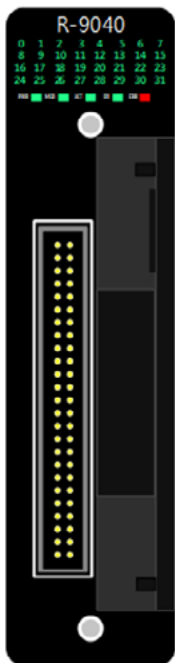
Features	
Redundant	Yes (Switching time < 1 ms)
Disconnection Detection	Yes
Low Pass Filter	Yes (1~32767 us)
LED Indicator	1 PWR, 1 MOD, 1 ACT, 1 DX, 1 ERR
I/O Indicator	32 as channel 0~31 status
Digital Input	
Number of Channels	32 (Ch00~15 : GNDG1 ; Ch16~31 : GNDG2)
Type	P-COM(Source) or N-COM(Sink), Single-Ended
Input Voltage Range '1'	18~30 VDC
Input Voltage Range '0'	< 11 VDC
Detection Time	100 us
Input Impedance	4.7 KΩ
Input Current	5.1 mA @ 24 VDC / per channel
Channel Protection	110 VAC / 140 VDC
Isolation	3000 VDC

Certification	
EMC	EN 61000-6-2 (EMS) EN 61000-6-4 (EMI) IEC/EN 61000-4-2 (ESD) IEC/EN 61000-4-4 (EFT)
General	
Termination Board	RDB-S08, RDB-D08
Max. Power Consumption	1.7 W
Operating Temperature	-25 ~ 70 °C
Storage Temperature	-30 ~ 75 °C
Humidity	5 ~ 95 % RH, Non-condensing
Weight	200 g
Dimensions (WxLxH)	33mm x 129mm x 130mm

I/O Structure

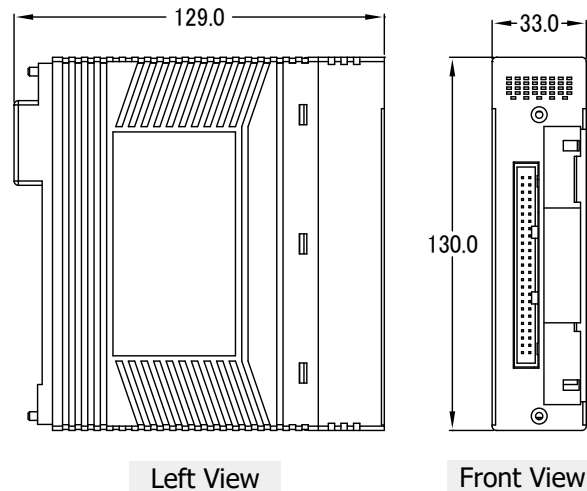


Pin Assignment



Pin Assignment Name	Terminal No.	Pin Assignment Name	Terminal No.
IN01	A1	B1	IN17
IN02	A2	B2	IN18
IN03	A3	B3	IN19
IN04	A4	B4	IN20
IN05	A5	B5	IN21
IN06	A6	B6	IN22
IN07	A7	B7	IN23
IN08	A8	B8	IN24
IN09	A9	B9	IN25
IN10	A10	B10	IN26
IN11	A11	B11	IN27
IN12	A12	B12	IN28
IN13	A13	B13	IN29
IN14	A14	B14	IN30
IN15	A15	B15	IN31
IN16	A16	B16	IN32
COM_A	A17	B17	COM_B
COM_A	A18	B18	COM_B
COM_A	A19	B19	COM_B
COM_A	A20	B20	COM_B
X	A21	B21	X
X	A22	B22	X
X	A23	B23	X
X	A24	B24	X
BK	A25	B25	BK

Dimensions (Units: mm)



Ordering Information

R-9040 CR	32-ch Isolated DI Redundant Module (RoHS)
------------------	---

Accessories

RDB-S08 CR	Termination board for single digital input modules (RoHS)
RDB-D08 CR	Termination board for duplex digital input modules (RoHS)