



R-9040

32-ch, isolated digital input

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

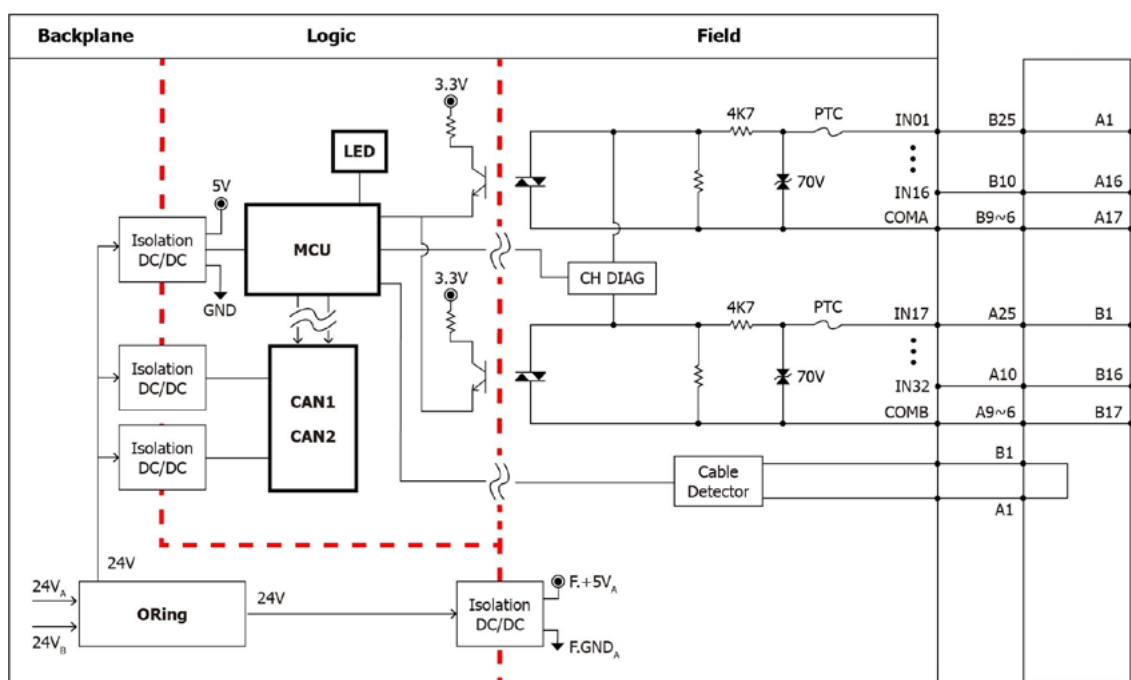
R-9040 has 32 digital input channels (sink/source mode). Users can use two input types according to different wiring methods. R-9040 provides LEDs to indicate the ON/OFF status of the input channels. It also provides 3000VDC isolation between the channels and the backplane bus, making it better able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

Specifications

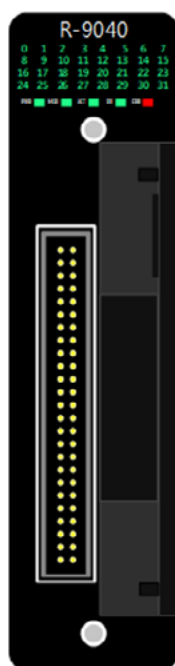
Features	
Redundant	Yes (Switching time < 1 ms)
Disconnection Detection	Yes
Low Pass Filter	Yes (1~32767 us)
LED Indicator	1 PWR, 1 MOD, 1 ACT, 1 DX, 1 ERR
I/O Indicator	32 as channel 0~31 status
Digital Input	
Number of Channels	32 (Ch00~15 : GNDG1 ; Ch16~31 : GNDG2)
Type	P-COM(Source) or N-COM(Sink), 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

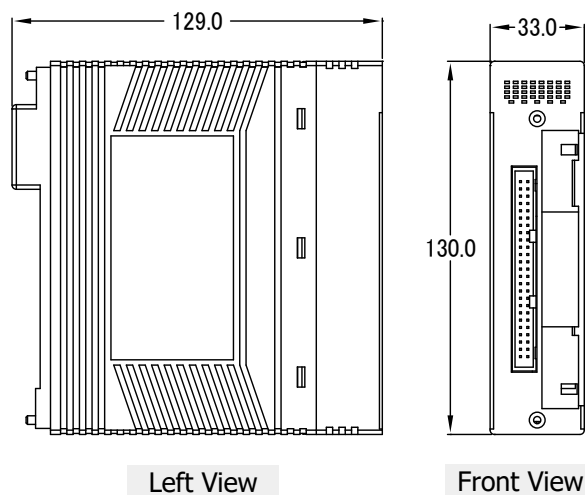


Pin Assignment



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

Dimensions (Units: mm)



Ordering Information

R-9040 CR	32-ch, isolated digital input (RoHS)
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Accessories

RDB-S08 CR	Single I/O termination board (RoHS), for R-9040
RDB-D08 CR	Duplex I/O termination board (RoHS), for R-9040