



R-9028V1

8-ch Isolated Voltage Output Redundant Module

Features

- 8 voltage output channels
- Power-on value & Safety value
- 16-bit D/A Converter
- Over-current
- Termination board disconnection detection
- Redundant switching time (<1 ms)



Introduction

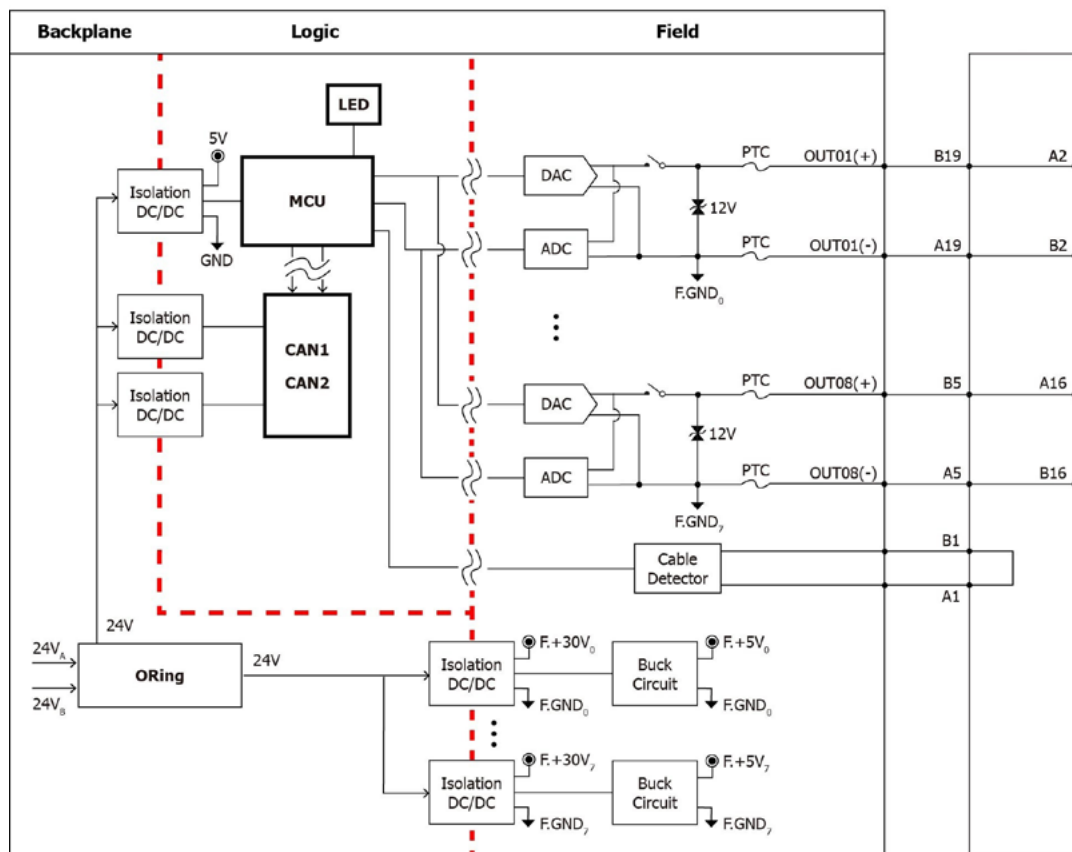
R-9028V1 is a 16-bit 8-channel isolated voltage output module. Users can customize the power on value and safety value through the setting software. It has an error value of $\pm 0.05\%$ to achieve high accuracy application. It also provides 3000VDC isolation between the channels and the backplane bus, making it better able to prevent noise interference in industrial environments without affecting the RIO-98x0 system.

Specifications

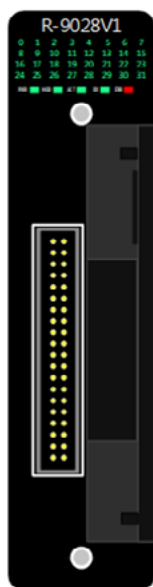
Features	
Redundant	Yes (Switching time < 1ms)
Disconnection Detection	Yes
Short-Circuit Protection	Yes
Power-on Value	Yes
Safety value	Yes
LED Indicator	1 PWR, 1 MOD, 1 ACT, 1 DX, 1 ERR LED 0~7 for CH Hi/Lo Alarm
Analog Output	
Number of Channels	8
Type	1 ~ 5 V, ± 10 V
Range	1~5V : +20% (0~6VDC) ± 10 V : $\pm 20\%$ (± 12 VDC)
Resolution	16 bit
Accuracy	$\pm 0.05\%$ FSR
Zero Drift	± 4 ppm/ $^{\circ}$ C
Span Drift	± 3 ppm/ $^{\circ}$ C
Min. Load Resistance	10K Ω
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-S09 / RDB-D09
Max. Power Consumption	6.3 W
Operating Temp.	-25 ~ 70 $^{\circ}$ C
Storage Temp.	-30 ~ 75 $^{\circ}$ C
Humidity	5 ~ 95 % RH, Non-condensing
Weight	270 g
Dimensions (WxLxH)	33 mm x 129 mm x 130 mm

I/O Structure

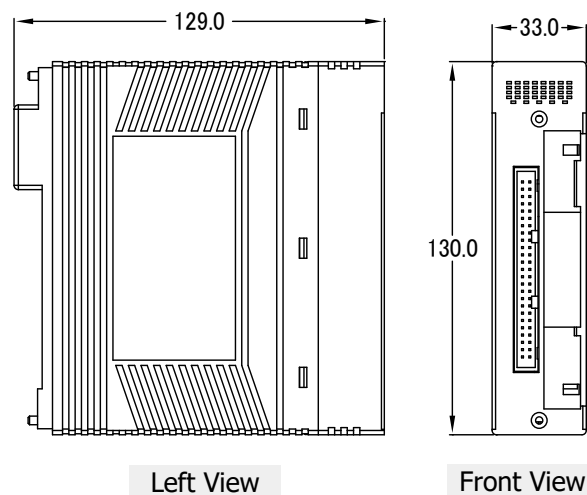


Pin Assignment



Pin Assignment Name	Terminal No	Pin Assignment Name
X	A1	B1
OUT01(+)	A2	B2
X	A3	B3
OUT02(+)	A4	B4
X	A5	B5
OUT03(+)	A6	B6
X	A7	B7
OUT04(+)	A8	B8
X	A9	B9
OUT05(+)	A10	B10
X	A11	B11
OUT06(+)	A12	B12
X	A13	B13
OUT07(+)	A14	B14
X	A15	B15
OUT08(+)	A16	B16
X	A17	B17
X	A18	B18
X	A19	B19
BK	A20	BK

Dimensions (Units: mm)



Ordering Information

R-9028V1 CR	8-ch isolated voltage output redundant module (RoHS)
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Accessories

RDB-S09 CR	Termination board for single isolated analog modules and single pulse input modules (RoHS)
RDB-D09 CR	Termination board for duplex isolated analog modules and duplex pulse input modules (RoHS)