

F-8017C2

16-ch Isolated Current Input Redundant Module

#### **■** Introduction

F-8017C2 is a 16-bit 16-channel analog differential input module that provides a 1000Hz sampling rate, a current input range of  $4\sim20\text{mA}$ , an error value of  $\pm0.05\%$ , enabling high-accuracy applications, and supports  $\pm25\%$  over-range measurements (accuracy not guaranteed). It also provides 3000  $V_{DC}$  isolation between the power supply and the backplane bus, making it better able to prevent noise interference in industrial environments without affecting the iDCS-8000 system.

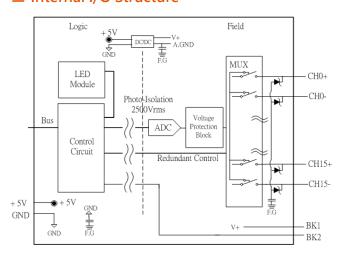
### Specifications

Feature	
Redundant	Yes (Switching time < 100us)
Termination board break off detection	Yes
Over-Current Protection	Yes
LED	
LED indicator	1 RUN, 1 ACT, 1 DUX
Analog Input	
Number of channels	16
Туре	4~20 mA (Support ± 25%
Max. Input Current	overrange) 24 mA
Resolution	16 bit
Sampling Rate	1000 Samples/Sec.
Accuracy	±0.05% FSR
Zero Drift	±20 μV/°C
Span Drift	±25 ppm/°C
Common Mode Rejetion	86 dB
Normal Mode Rejetion	100 dB
Input Impedance	230 Ω
Date Range	-2500~12500 (0~24 mA)
Isolation	3000 V <sub>DC</sub>

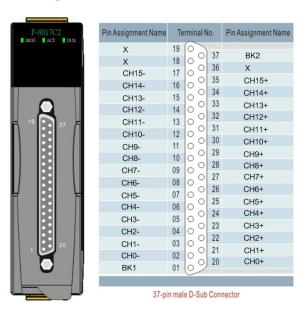
Certification		
Emission	IEC 61000-6-4	
	IEC 61000-6-2	
	IEC 61000-4-3	
Immunity	IEC 61000-4-4	
	IEC 61000-4-6	
	IEC 61000-4-9	
	IEC 61000-4-10	
	IEC 61000-4-12	
General		
Termination	DN-AIO-M	
Board		
Max. Power	2.2 W	
Consumption		
Operating	-25 ~ 75 ℃	
Temperature		
Storage	-30 ~ 80 °C	
Temperature		
Humidity	5 ~ 95 % RH, Non-condensing	
Weight	300g	
Dimensions (WxLxH)	30mm x 85mm x 115mm	

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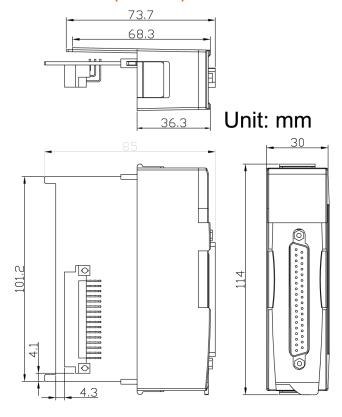
## **■ Internal I/O Structure**



## **■** Pin Assignment



### **■** Dimension (unit: mm)



# **■** Ordering Information

F-8017C2 CR	16-ch Isolated Current Input Redundant Module (RoHS)
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#### Accessories

CA-3710AM CR	DB37 Male to Female, with Molded Cable, 45°, 1M (RoHS)
DN-AIO-M CR	Universal termination board for analog I/O (RoHS)

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