

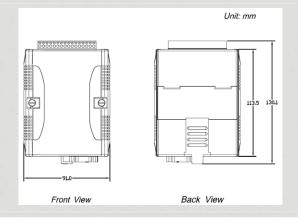
PROFIBUS Series Products

PROFIBUS Remote I/O Module





PROFI-5017C



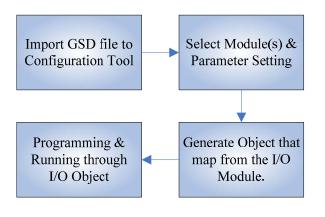
Dimensions

The PROFI-5017C is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5017C provides ±4kV ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5017C, users can easily establish a PROFIBUS DP network with other DP-Masters. In advance, it can be used in the application of building automation, remote data acquisition, environment control and monitoring, laboratory equipment & research, factory automation, etc..

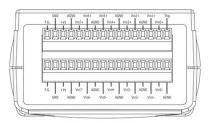
Features

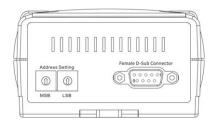
- Support for PROFIBUS DP-V0 protocol
- Detect transmission rate automatically(Max. 12Mbps)
- Support device related & channel related diagnosis
- Address 0~126 set by rotary switches or SSA Telegram
- 14-bit resolution & 100ksps AD converter
- Network isolation protection
- 3000V_{DC} isolation protection on PROFIBUS
- 4kV ESD protection (contact for any terminal)
- Wide range of power input (DC $10\sim40V_{DC}$) and operating temperature (- $25^{\circ}C\sim+75^{\circ}C$)

Design Flowchart



Pin Assignments





Female D-Sub Connector

Pin No.	Signal	Meaning
3	A-Line	Receive/Transmit data-minus
4	CNTR-P	Repeater control signal, RTS signal
5	GND	Power ground of active terminator
6	VP	Power 5 volt of active terminator
8	B-Line	Receive/Transmit data-plus

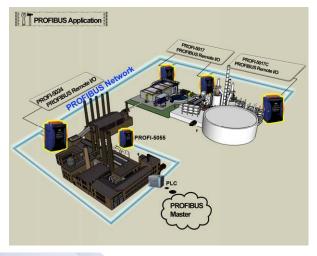


Hardware Specifications

Hardware		
CPU	80186, 80 MHz or compatible	
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB	
Watchdog	Watchdog IC, CPU built-in	
ESD Protection	4 kV class A	
PROFIBUS Interface		
Controller	Siemens SPC3	
Transceiver	ADI ADM2486	
Connector	9-pin female D-Sub	
Baud Rate (bps)	9.6 k, 19.2 k, 45.45 k, 93.75 k, 187.5 k, 500 k, 1.5 M, 3 M, 6 M, 12 M	
Transmission Distance (m)	Depend on baud rate (for example, max. 1200 m at 9.6 kbps)	
Isolation	3000 V _{DC} for DC-to-DC, 2500 Vrms for bus-to-logic	
Protocol	DP-V0	
UART Interface		
COM	RS-232 on board (For updating firmware) _{Note 1.}	
1/0		
Analog Input	8 channel differential current input, Isolation Voltage:2500Vrms	
Input Range	$0 \sim 20 \text{mA}$	
Accuracy	+/- 0.2% of FSR	
LED		
Round LED	PWR LED, RUN LED, ERR LED	
Power		
Power supply	Unregulated +10 ~ +40 V _{DC}	
Protection	Power reverse polarity protection, Over-voltage brown-out protection	
Power Consumption	3W	
Mechanism		
Installation	DIN-Rail	
Dimensions	91 mm x 128 mm x 52 mm (W x L x H)	
Environment		
Operating Temp.	-25 ~ 75℃	
Storage Temp.	-30 ~ 80°C	
Humidity	10~90% RH,non-condens	

Note 1: CA-0904 : transform from 4-pin connector to 9-pin Female D-Sub connector.

Application



Ordering Information

PROFI-5017C CR PROFIBUS Remote I/O Module (8-Ch Isolated Analog Current Input)



sales@backplane.com.au