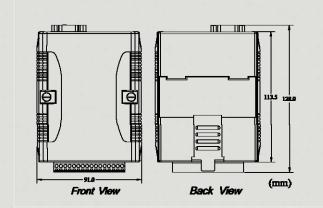
# **PROFIBUS Series Products**

## **PROFIBUS Remote I/O Module**





CE FC

## PROFI-5045

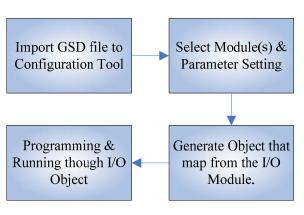
Dimensions

The PROFI-5045 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-5045 provides ±4KV ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5045, 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..

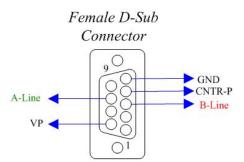
#### Features

- Support for PROFIBUS DP-V0 protocol
- Detect transmission rate automatically(Max. 12Mbps)
- Address 0~99 set by rotary switches
- Network Isolation Protection
- 3000V<sub>DC</sub> isolation protection on PROFIBUS side
- **4KV ESD Protection (contact for any terminal).**
- Wide range of power input (DC 10~40 $V_{DC}$ ) and operating temperature (-25°C~+75°C)

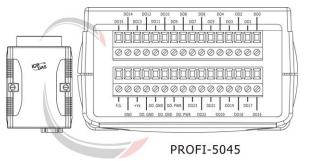
#### Design Flowchart



### **Pin Assignments**



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





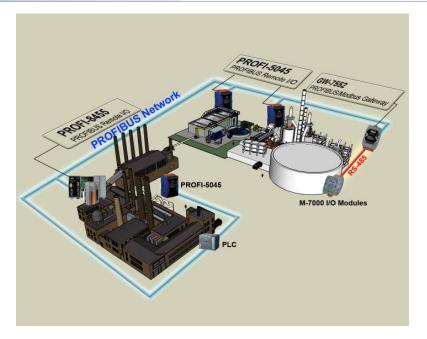


**PROFIBUS** Series

# Hardware Specifications

Hardware			
ESD Protection	4 kV class A		
PROFIBUS Interface			
Controller	Profichip VPCLS2		
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 <sub>DC</sub> for DC-to-DC, 2500 Vrms for bus-to-logic		
Protocol	DP-V0		
LED			
Round LED	PWR LED, RUN LED		
Power			
Power supply	Unregulated $+10 \sim +40 \text{ V}_{\text{DC}}$		
Protection	Reverse polarity protection, Over-voltage brown-out protection		
Power Consumption	1 W		
I/O			
	24 Channels (Sink), Isolated with common ground Load Voltage: +10 ~ +40V		
Digital Output	Maximum Load Current: 650mA w/ Short-Circuit Protection Isolation Voltage: 3750 Vrms		
Mechanism			
Installation	DIN-Rail		
Dimensions	91 mm x 128 mm x 52 mm (W x L x H)		
Environment			
Operating Temp.	-25 ~ 75°C		
Storage Temp.	-30 ~ 80°C		
Humidity	10~90% RH,non-condens		

## Application



#### Ordering Information

PROFI-5045 CR

PROFIBUS Remote I/O Module (24-Ch Isolated Digital Output)

> ICP Electronics Australia Pty Ltd

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