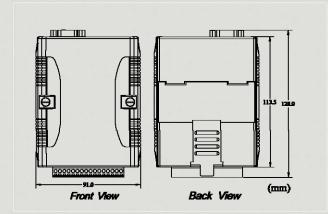
# **PROFIBUS Series Products**

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





CE FC

## PROFI-5053

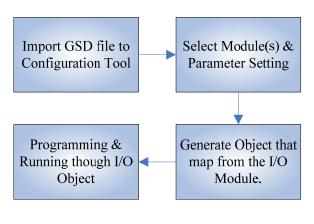
Dimensions

The PROFI-5053 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-5053 provides ±4KV ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5053, 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..

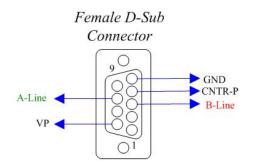
#### Features

- 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 10~40V<sub>DC</sub>) and operating temperature (-25°C~+75°C)

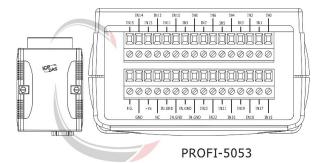
#### **Design Flowchart**



#### **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



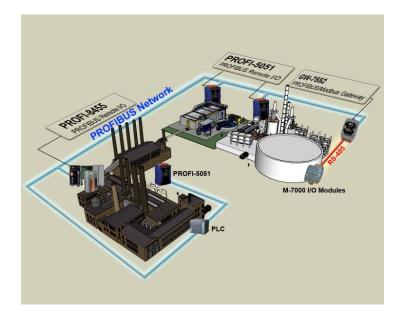




## Hardware Specifications

Hardware		
ESD Protection	4 kV class A	
<b>PROFIBUS Interface</b>		
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 $+10 \sim +40 V_{DC}$	
Protection	Reverse polarity protection, Over-voltage brown-out protection	
Power Consumption	1 W	
I/O		
Digital Input	24 Channels (Dry Contact), Non-Isolated with common ground. Off Voltage Level: Close to IN.GND On Voltage Level: Open	
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-5053 CR

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

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