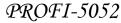


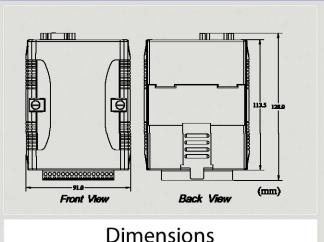
PROFIBUS Series Products

PROFIBUS Remote I/O Module







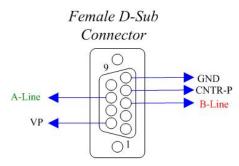


The PROFI-5052 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5052 provides ±4KV ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5052, users 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..

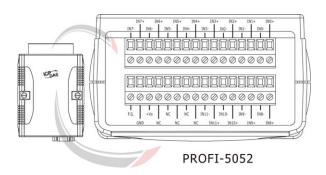
Features

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

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



Design Flowchart

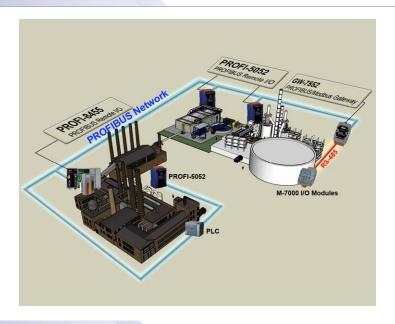
Import GSD file to Configuration Tool	-	Select Module(s) & Parameter Setting
Programming & Running though I/O Object	•	Generate Object that map from the I/O Module.



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 _{DC} for DC-to-DC, 2500 Vrms for bus-to-logic			
Protocol	DP-V0			
LED				
Round LED	PWR LED, RUN LED			
Power				
Power supply	Unregulated $+10 \sim +40 \text{ V}_{DC}$			
Protection	Reverse polarity protection, Over-voltage brown-out protection			
Power Consumption	1 W			
I/O				
Digital Input	12 Channels (Sink or Source), Isolated from each other. Off Voltage Level: +1V Max. On Voltage Level: +4 ~ +30V Input Impedance: 3KΩ in series with opto-coupler Isolation Voltage: 5000 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

DD OEL FORA CD	PROFIBUS Remote I/O Module
PROFI-5052 CR	(12-Ch Isolated Digital Input)