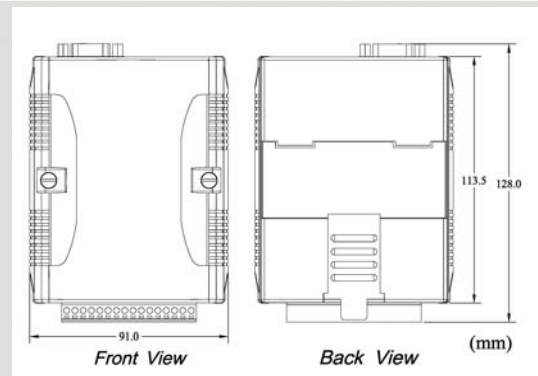


PROFIBUS Remote I/O Module



PROFI-5055



Dimensions

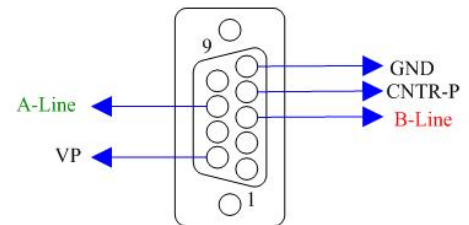
The PROFI-5055 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5055 provides $\pm 4\text{KV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5055, 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
- 3000VDC isolation protection on PROFIBUS side
- 4KV ESD Protection (contact for any terminal).
- Wide range of power input (DC 10~40VDC) and operating temperature (-25°C~+75°C)

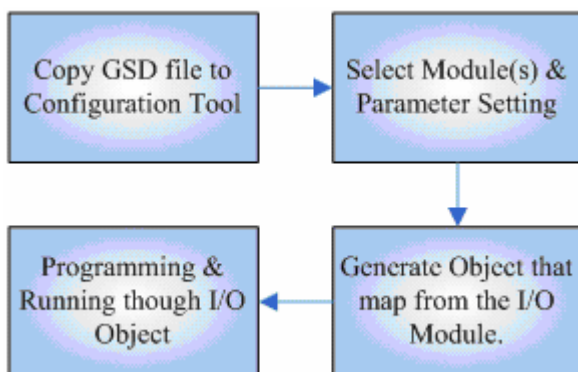
Pin Assignments

Female D-Sub Connector



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

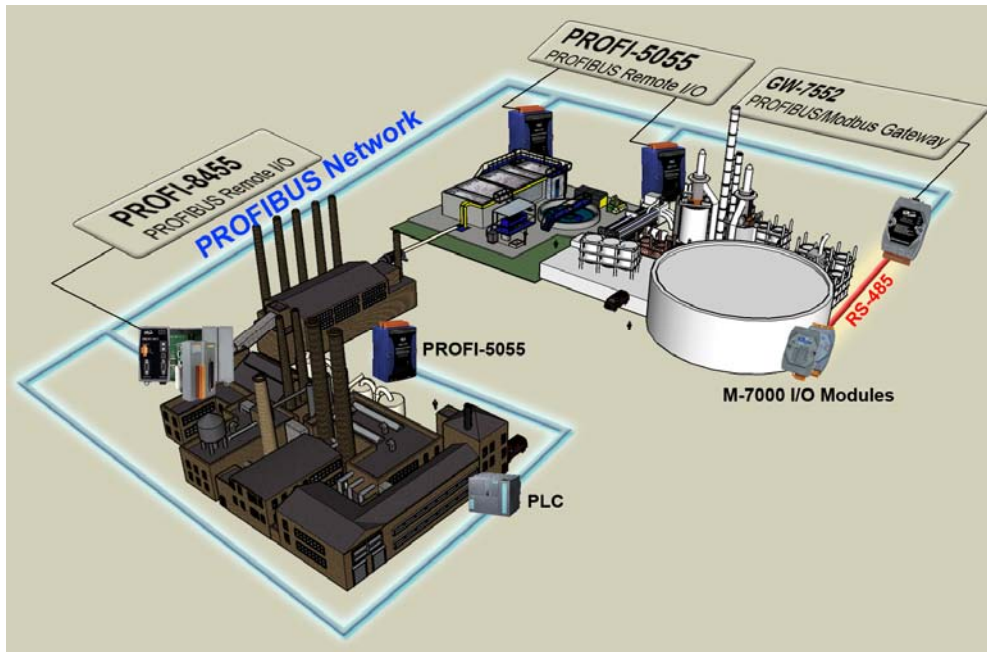




Hardware Specifications

Item	PROFI-5055
PROFIBUS Interface	9-pin D-Sub(Female)
PROFIBUS Controller	Profichip VPCLS2
PROFIBUS Transceiver	ADI ADM2486 iCoupler Isolated Transceiver
Transmission Rate	Up to 12Mbps
Digital Input	8 Channels (Sink or Source), Isolated from each other Off Voltage Level: +4V Max. On Voltage Level: +10 ~ +50V Input Impedance: 10KΩ in series with opto-coupler Isolation Voltage: 3750Vrms
Digital Output	8 Channels (Sink), Isolated with common ground Load Voltage: +10 to +40 V Maximum Load Current: 650mA with Short-Circuit Protection
Power Requirement	10V ~ 40V
Power Consumption	1W
Operating Temp.	-25°C ~ +75°C
Storage Temp.	-30°C ~ +85°C
Humidity	5% ~ 95% Non-condensing
Dimensions	91 mm x 128 mm x 52 mm

Application



Ordering Information

PROFI-5055 CR	PROFIBUS Remote I/O Module (8-Ch Isolated Digital Input & 8-Ch Isolated Digital Output)
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