

PROFIBUS PRODUCTS CATALOG



- **Converter**
- **Gateway**
- **Remote I/O**

Professional Provider of High Quality Industrial Data Acquisition and Control Products



About Company

ICP DAS which was founded in 1993 is a company focusing on R&D. With the wide and fast application, and the extension to the field of home and entertainment, the trend of combining data acquisition, industrial control, and communication to one unit has been obvious; Hence again, the embedded-control system has become the spot light of research and application.

ICP DAS has devoted to the advances of remote I/O controllers, distributed I/O modules, and I/O data acquisition boards. Besides, ICP DAS has its own solutions to industrial automation and completes after-care services. Recently, we are aggressive to develop a series of programmable automation controller, web-related products and motion-control systems.



- ❖ From research to produce, ICP DAS keeps the stability of products by the series of process.
- ❖ The strong R&D teams not only solve clients' problems but also satisfy customers' requirements.
- ❖ We would like to work with our customers wholeheartedly to develop OEM or ODM products.
- ❖ ICP DAS have developed the service networks over the world, our clients can get excellent service and technical support.
- ❖ Up to now, we have got ISO 9002 certification and several innovative patents, and some new patents are pending.
- ❖ To partner with major software such as ISaGRAF, DASyLab, SoftPLC, Think & Do Software, MATLAB, Indusoft, Windows CE and so on, our wide range of products offers a total Industrial-controlled solution.
- ❖ Our series products can compete in quality with others which come from noted company in Europe or Japan , in less cost.



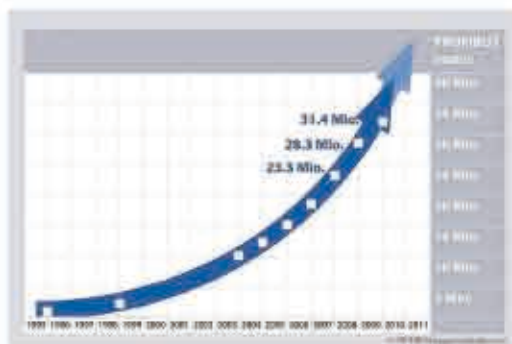
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PROFIBUS Solutions

Introduction

Fieldbus is an industrial communication system that uses a range of media such as copper cable, fiber optics or wireless, with bit-serial transmission for coupling distributed field devices (sensors, actuators, drivers, transducers, etc.) to a central control or management system. Fieldbus technology was developed in the 80s with the aim of replacing the commonly used central parallel wiring and prevailing analog signal transmission (4-20 mA or $\pm 10V$ interface) with digital technology. Due, in parts, to the different industry-specific demands and preferred proprietary solutions of large manufacturers, several bus systems with varying properties were established in the market.

PROFIBUS (Process Field Bus) is a standard for fieldbus communication in automation technology and was first promoted (1989) by BMBF (German department of education and research). It is the world's most successful fieldbus, with more than 31 million devices installed by the end of 2009. Over 5.4 million of these were in the process industries.



There are two variations of PROFIBUS in use today. The most commonly used PROFIBUS DP, and the lesser used PROFIBUS PA.

➤ PROFIBUS DP (Decentralized Peripherals)

It is used to operate sensors and actuators via a centralized controller in production (factory) automation applications.

➤ PROFIBUS PA (Process Automation)

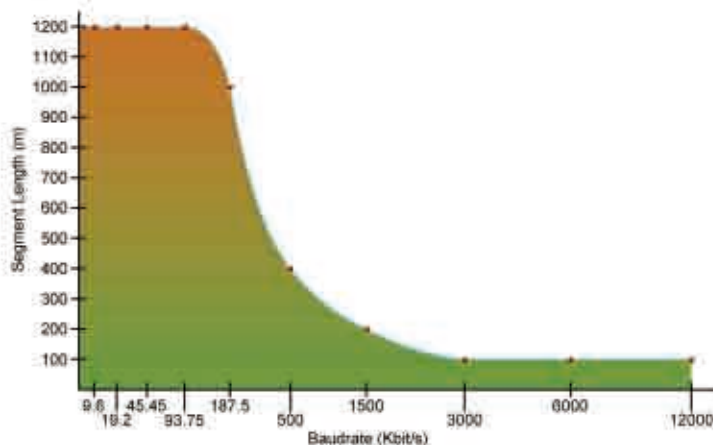
It is used to monitor measuring equipment via a process control system in process automation applications. This variant is designed for use in explosion/hazardous areas.

ICP DAS has been developing various PROFIBUS DP Slave products for several years. We offer converters, gateways, and remote I/O to our customers, and help them to resolve technology problems.

PROFIBUS Solutions

Features

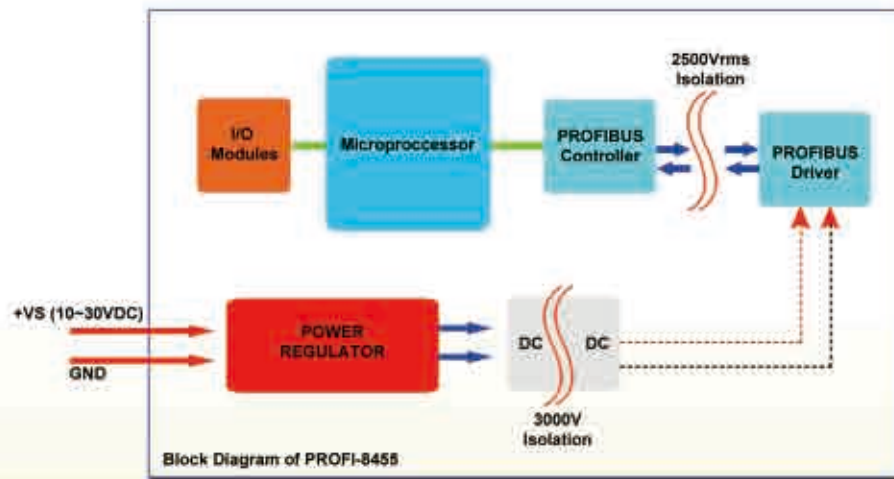
- Baud rate up to 12 Mbit/s
- Maximum 244 bytes input and 244 bytes output per slave
- Slave configuration and parameters are set from the master side by GSD file
- Allow multi-master system
- Fast cyclic data communication between master and slave
- 124 slaves can be put in data exchange
- 32 stations on one segment



PROFIBUS Series in ICP DAS

High protection hardware design

ICP DAS thinks that these products are used in the harsh environment. When we design the products, the isolation is designed in power-in side and communication side to prevent the external noise disturbance.



Hot-Swap in PROFIBUS remote I/O units (PROFI-8x55)

The Hot-Swap function of PROFI-8x55 is provided to maintain the system easily. Therefore, users can on-line diagnose the damaged I/O module and change the module.

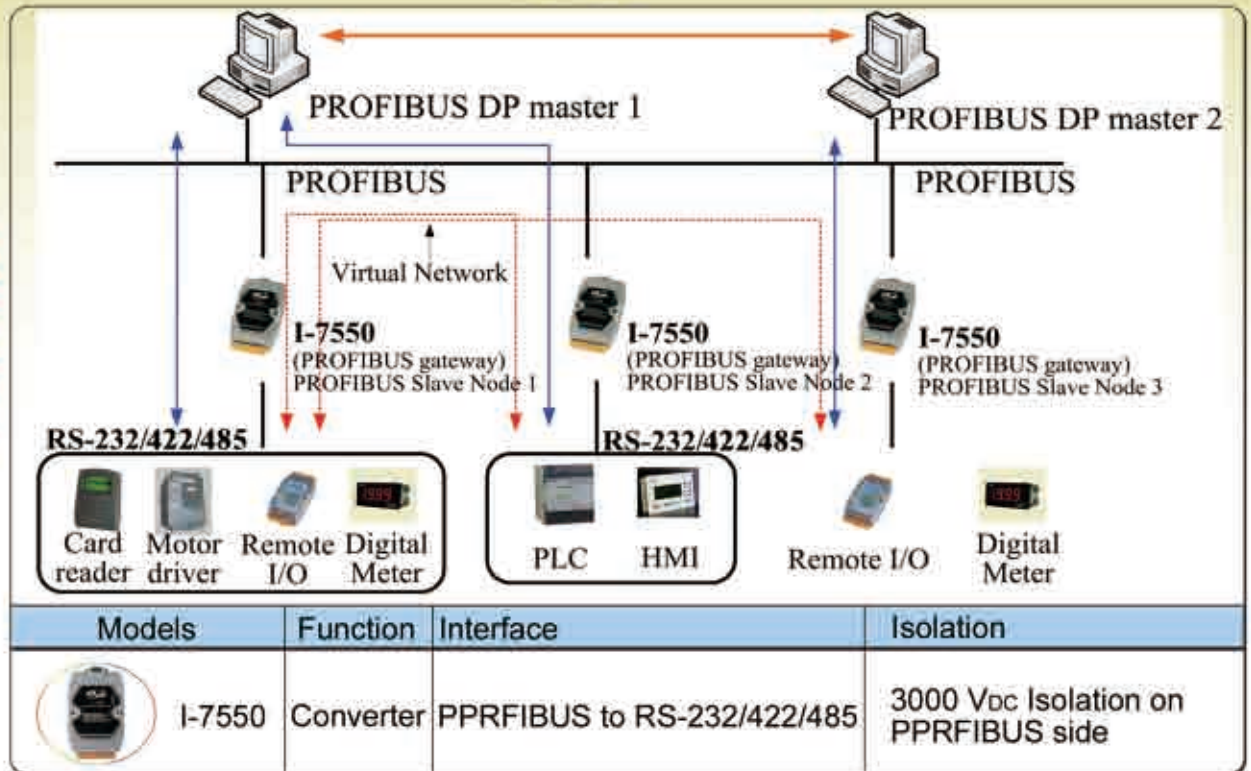
Robustness in harsh environment

PROFIBUS products in ICP DAS can be operated in wide temperature & humidity provided high reliability.

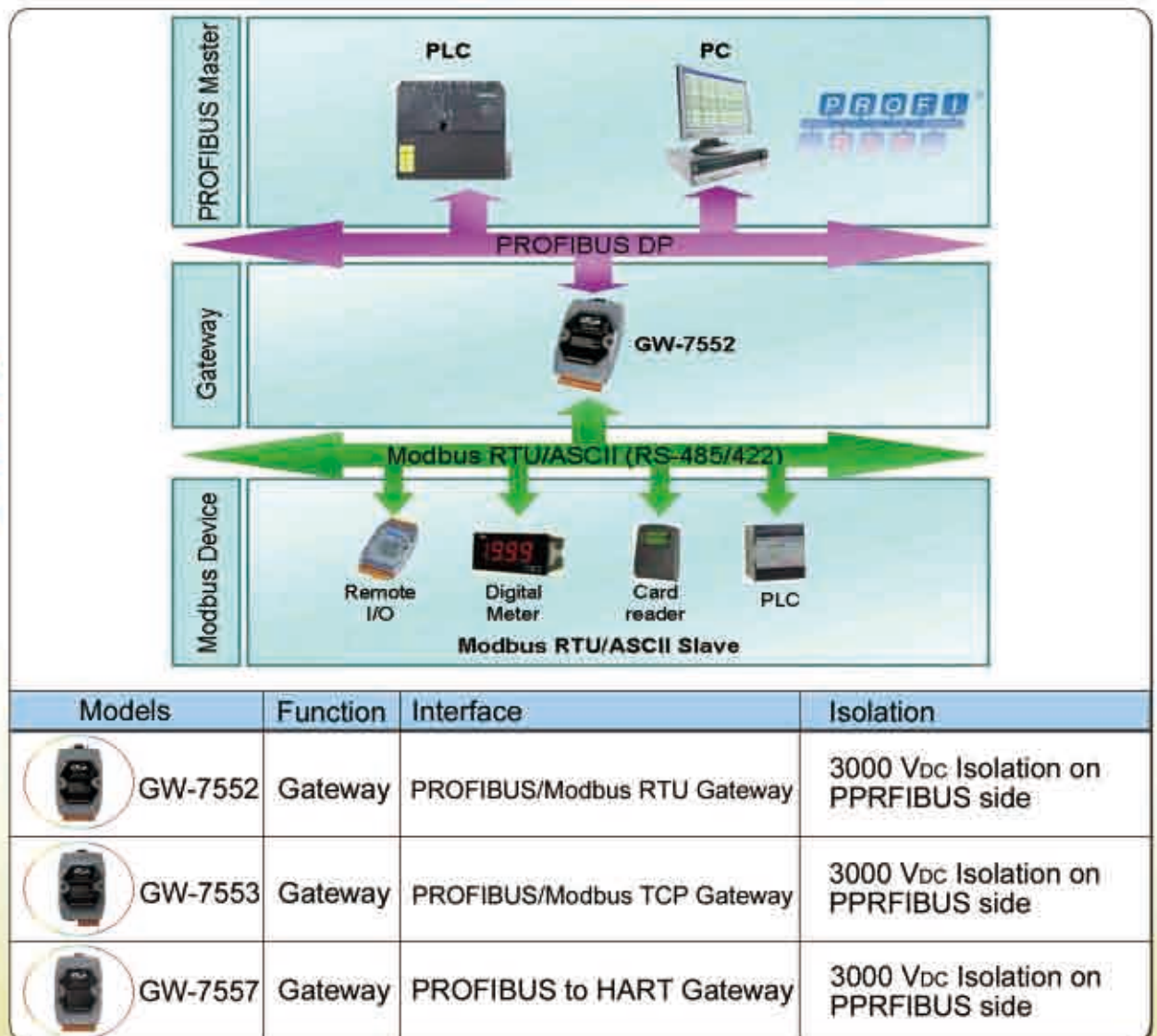


Product Applications

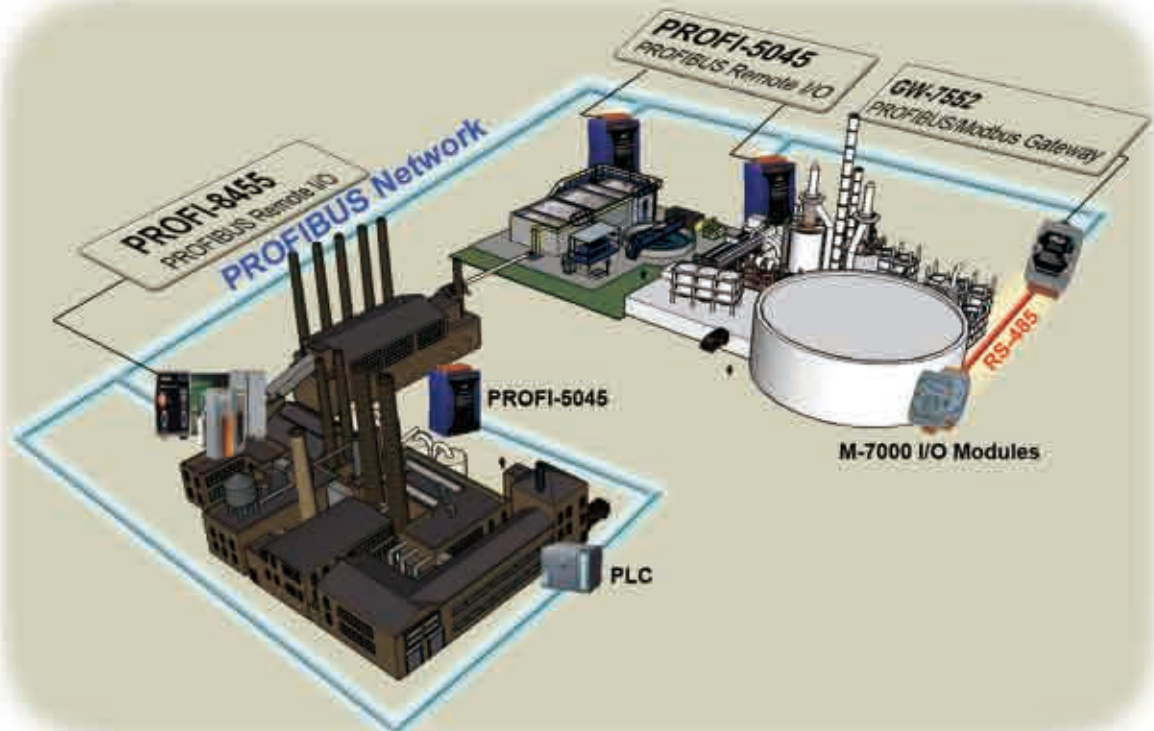
Converter



Gateway



Product Applications



Remote I/O







Models	Function	Information
PROFI-5045	Remote I/O Module	24-channel Isolated Digital Output
PROFI-5050	Remote I/O Module	16-channel Non-Isolated Digital Input
PROFI-5051	Remote I/O Module	and 8-channel Non-Isolated Digital Output 24-channel Isolated Digital Input
PROFI-5052	Remote I/O Module	12-channel Isolated Digital Input
PROFI-5053	Remote I/O Module	24-channels Dry Contact Non-Isolated Digital Input
PROFI-5055	Remote I/O Module	8-channel Isolated Digital Input and 8-channel Isolated Digital Output
PROFI-5060	Remote I/O Module	8-channel Isolated Digital Input and 4-channel Relay Output
PROFI-5017	Remote I/O Module	8-Ch Isolated Analog Voltage Input
PROFI-5017C	Remote I/O Module	8-Ch Isolated Analog Current Input
PROFI-5024	Remote I/O Module	4-Ch Isolated Analog Voltage & Current Output
 PROFI-8155	PROFIBUS Remote I/O Unit	1 Expansion Slot
 PROFI-8255	PROFIBUS Remote I/O Unit	2 Expansion Slots
 PROFI-8455	PROFIBUS Remote I/O Unit	4 Expansion Slots
 PROFI-8855	PROFIBUS Remote I/O Unit	8 Expansion Slots

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Remote I/O

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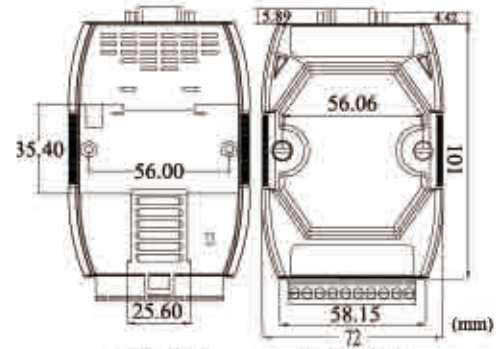


PROFIBUS Converter

PROFIBUS to RS-232/422/485 Converter



I-7550



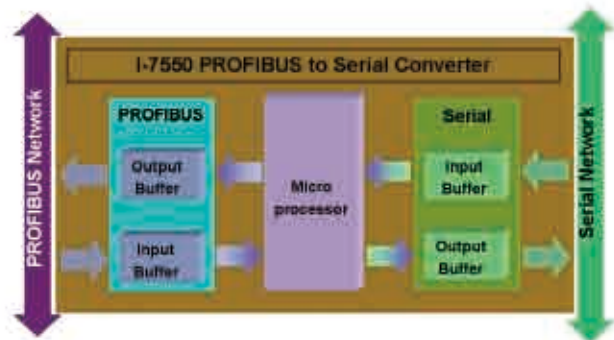
Dimensions

The I-7550 converter is specially designed for the slave device of PROFIBUS DP protocol. It offers RS-232, RS-422, and RS-485 three kinds of communication way. With the Hybrid COM 1 design, users can choose one type of com port to use. By using this module, users can put their RS-232/422/485 devices into PROFIBUS network very easily.

Features

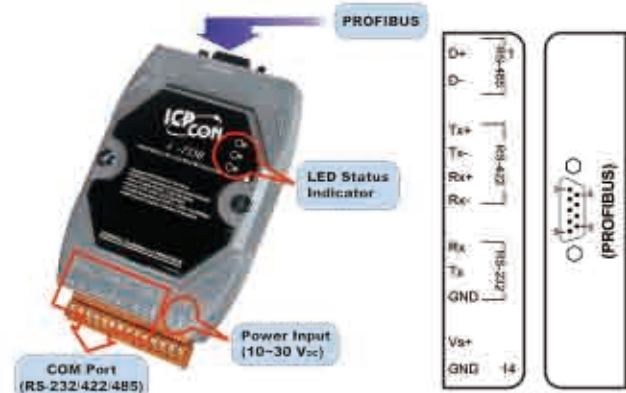
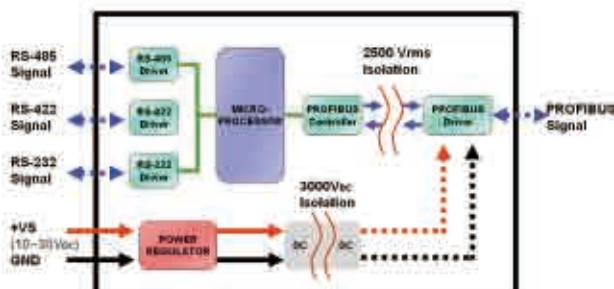
- ◆ Protocol & Hierarchy: DP-V0 Slave
- ◆ Detect transmission rate (9.6 ~ 12000 kbps) automatically
- ◆ Max length of in/output data is 128 Bytes
- ◆ Address 0~126 set by DIP switch or EEPROM
- ◆ Support several kinds of baud rate for COM1 from 1.2 to 115.2 kbps
- ◆ Built-in self-tuner ASIC controller on RS-422/485 port
- ◆ Network Isolation Protection: High Speed iCoupler
- ◆ 3000 V_{DC} isolation protection on PROFIBUS side
- ◆ 4 kV ESD Protection
- ◆ Mountable on DIN-Rail

Data Flow



Pin Assignments

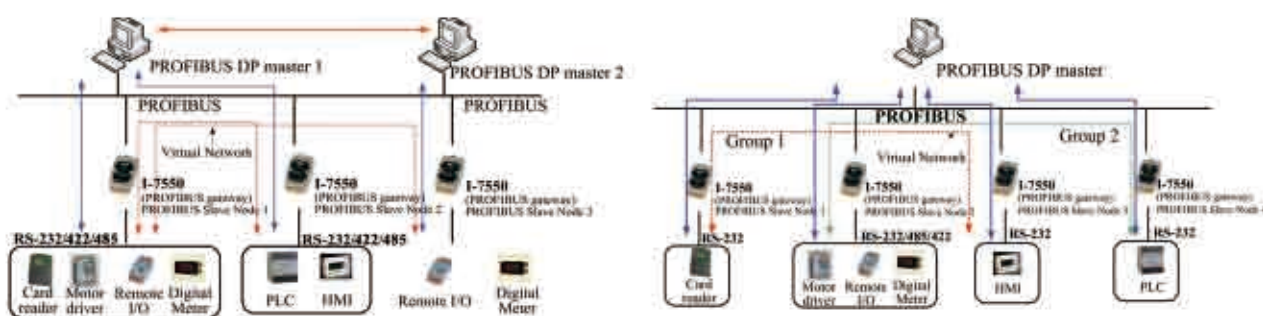
Block Diagram



Hardware Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 16 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/RS-422/RS-485(can't be used simultaneously)
COM Connector	3-pin screwed terminal block (RxD, TxD, GND) 4-pin screwed terminal block (RxD+, RxD-, TxD+, TxD-) 2-pin screwed terminal block (DATA+, DATA-)
Baud Rate (bps)	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
Data bit	7, 8
Stop bit	1
Parity	None, Even, Odd
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +30 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	2.5 W
Mechanism	
Installation	DIN-Rail
Dimensions	72 mm x 33 mm x 119 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-30 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Ordering Information

I-7550-G	PROFIBUS to RS-232/422/485 Converter
I-7550-G CR	PROFIBUS to RS-232/422/485 Converter (RoHS)

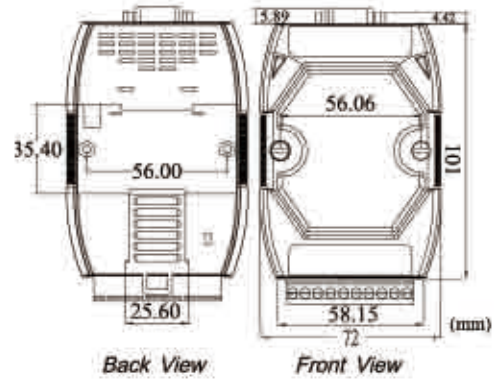


PROFIBUS Gateway

PROFIBUS to Modbus Gateway



GW-7552



Dimensions

The GW-7552 Gateway is specially designed for the slave device of PROFIBUS DP protocol. It allows the PROFIBUS master to access the Modbus devices. These Modbus devices may be a PLC, a sensor, ICPDAS M-7000 series modules and so forth. In addition, we also provide the utility software for users to configure the GW-7552. By using this module, users can put their Modbus devices into PROFIBUS network very easily.

Features

- ◆ Protocol & Hierarchy: DP-V0 Slave
- ◆ Detect transmission rate (9.6 ~ 12000 kbps) automatically
- ◆ 128 bytes max input data length
- ◆ 131 bytes max output data length
- ◆ Support Modbus Master and Slave mode
- ◆ Support Modbus RTU and ASCII format
- ◆ Address 0~126 set by DIP switch or EEPROM
- ◆ Support several kinds of baud rate for COM1 from 2.4 to 115.2 kbps
- ◆ Network Isolation Protection: High Speed ICoupler
- ◆ 3000 V_{DC} isolation protection on PROFIBUS side
- ◆ 4 kV ESD Protection

Utility Features

- ◆ Provide GW-7552 safe value setting
- ◆ Display module parameters of the GW-7552
- ◆ Show module address configuration of the GW-7552

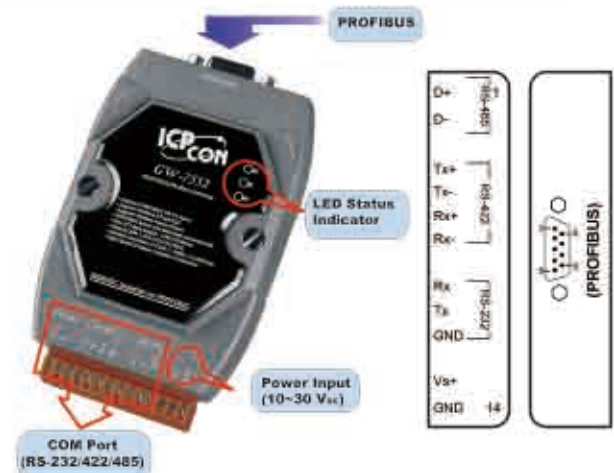


Modbus Support

- ◆ GW-7552 only supports the following Modbus commands.

Code	Name	Description
01	Read Coil Status	Read the ON/OFF status of discrete outputs in the slave
02	Read Input Status	Read the ON/OFF status of discrete inputs in the slave
03	Read Holding Registers	Read the binary contents of holding registers in the slave
04	Read Input Registers	Read the binary contents of input registers in the slave
05	Force Single Coil	Write a single output to either ON or OFF in the slave
06	Preset Single Register	Write an integer value into a single register in the slave
15	Force Multi Coils	Write each coil in the sequence of coils to either ON or OFF in the slave
16	Preset Multi Registers	Write a block of contiguous registers in the slave

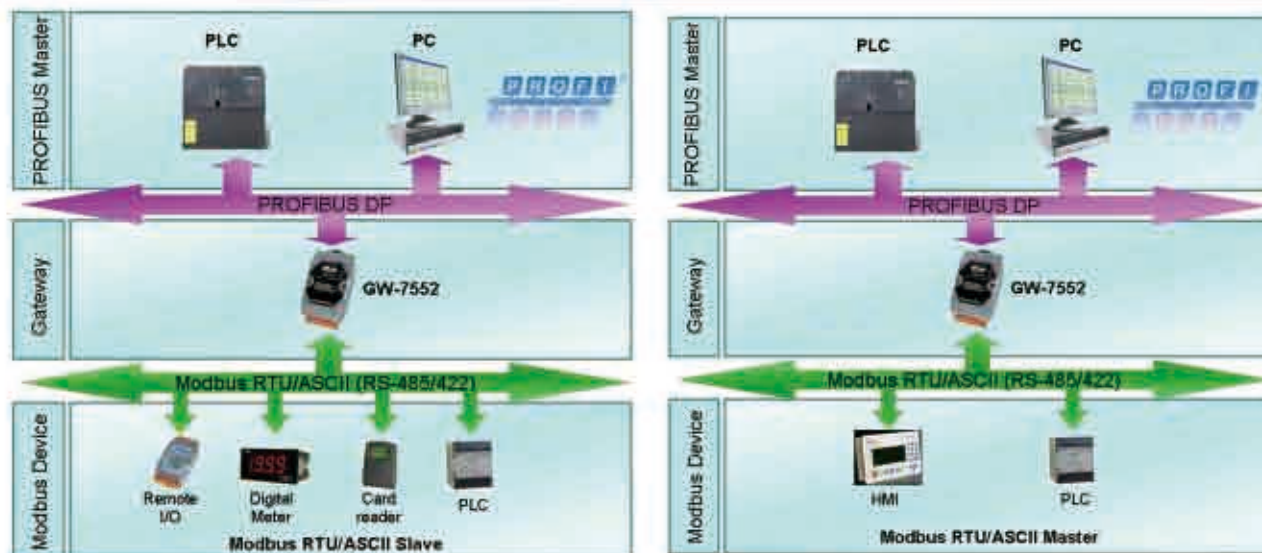
Pin Assignments



Hardware Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 16 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 V _{rms} for bus-to-logic
Protocol	DP-V0
UART Interface	
COM	RS-232/RS-422/RS-485(can't be used simultaneously)
COM Connector	3-pin screwed terminal block (RxD, TxD, GND) 4-pin screwed terminal block (RxD+, RxD-, TxD+, TxD-) 2-pin screwed terminal block (DATA+, DATA-)
Baud Rate (bps)	2400, 4800, 9600, 19200, 38400, 57600, 115200
Data bit	7, 8
Stop bit	1
Parity	None, Even, Odd
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +30 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	2.5 W
Mechanism	
Installation	DIN-Rail
Dimensions	72 mm x 33 mm x 119 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-30 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Ordering Information

GW-7552 CR	PROFIBUS/Modbus Gateway (RoHS)
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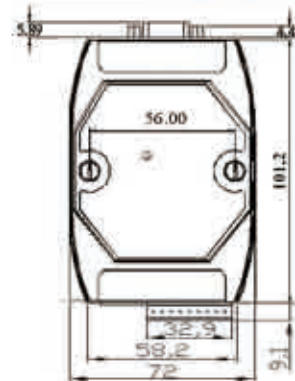


PROFIBUS Gateway

PROFIBUS to Modbus TCP Gateway



GW-7553



Dimensions

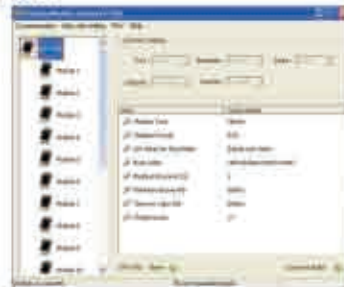
The GW-7553 Gateway is specially designed for the slave device of PROFIBUS DP protocol. It allows the PROFIBUS master to access the Modbus TCP devices. These Modbus devices may be a PLC, a sensor, the ICPDAS I-8KE4-MTCP module and so forth. In addition, we also provide the utility software for users to configure the GW-7553. By using this module, users can put their Modbus TCP devices into PROFIBUS network very easily.

Features

- ◆ Protocol & Hierarchy: DP-V0 Slave
- ◆ Detect transmission rate (9.6 ~ 12000 kbps) automatically
- ◆ 244 bytes max input data length
- ◆ 240 bytes max output data length
- ◆ Support Modbus Master and Slave mode
- ◆ Support Modbus RTU, ASCII and TCP format
- ◆ Address 0~126 set by DIP switch or EEPROM
- ◆ Support several kinds of baud rate for COM1 from 2.4 to 115.2 kbps
- ◆ Network Isolation Protection: High Speed ICoupler
- ◆ 3000 V_{DC} isolation protection on PROFIBUS side
- ◆ 4 kV ESD Protection

Utility Features

- ◆ Provide GW-7553 safe value setting
- ◆ Provide GW-7553 network configuration
- ◆ Display module parameters of the GW-7553
- ◆ Show module address configuration of the GW-7553

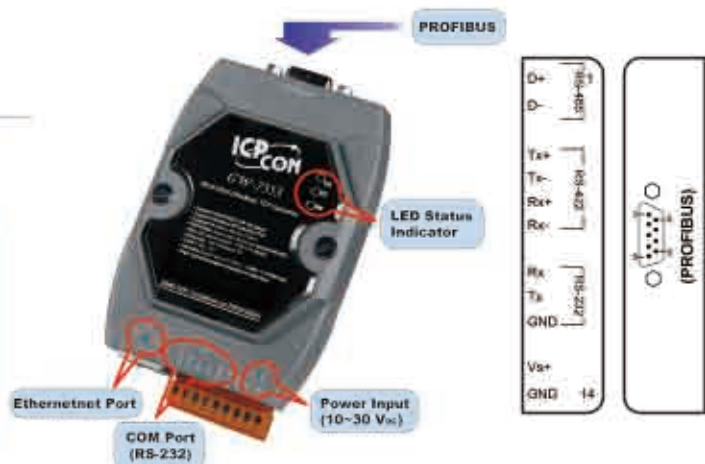


Pin Assignments

Modbus Support

- ◆ GW-7553 only supports the following Modbus commands

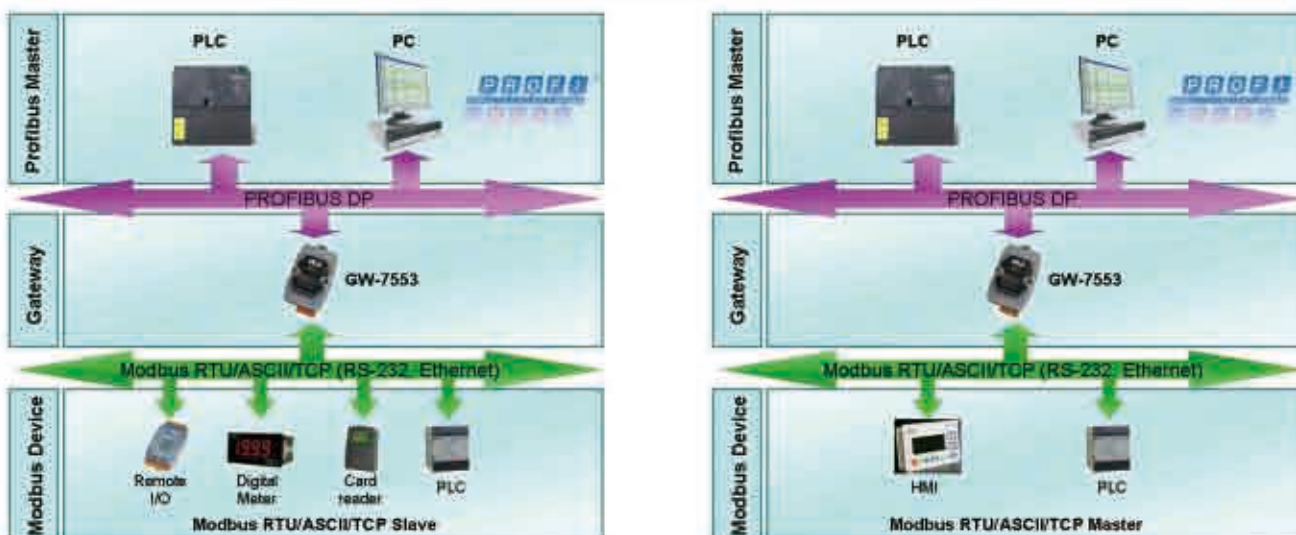
Code	Name	Description
01	Read Coil Status	Read the ON/OFF status of discrete outputs in the slave
02	Read Input Status	Read the ON/OFF status of discrete inputs in the slave
03	Read Holding Registers	Read the binary contents of holding registers in the slave
04	Read Input Registers	Read the binary contents of input registers in the slave
05	Force Single Coil	Write a single output to either ON or OFF in the slave
06	Preset Single Register	Write an integer value into a single register in the slave
15	Force Multi Coils	Write each coil in the sequence of coils to either ON or OFF in the slave
16	Preset Multi Registers	Write a block of contiguous registers in the slave



Hardware Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 16 KB
Watchdog	Watchdog IC CPU built-in
ESD Protection	4 kV class A
PROFIBUS Interface	
Controller	Profichip VPC3+C
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 V _{rms} for bus-to-logic
Protocol	DP-V0
UART Interface	
COM	RS-232 (For updating firmware and configuration)
COM Connector	5-pin screwed terminal block (TxD, RxD, RTS, CTS, GND)
Baud Rate (bps)	2400, 4800, 9600, 19200, 38400, 57600, 115200
Data bit	7, 8
Stop bit	1, 2
Parity	None, Even, Odd
Ethernet Interface	
Controller	10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX)
Connector	RJ-45 with LED indicator
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +30 VDC
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	2.5 W
Mechanism	
Installation	DIN-Rail
Dimensions	72 mm x 33 mm x 119 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-30 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Applications



Ordering Information

GW-7553 CR	PROFIBUS/Modbus TCP Gateway
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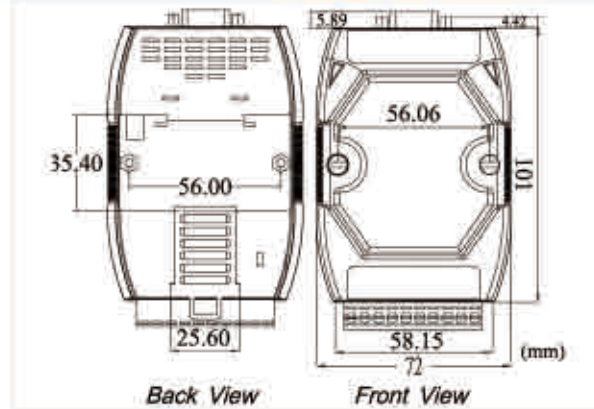


PROFIBUS Gateway

PROFIBUS to HART Gateway



GW-7557



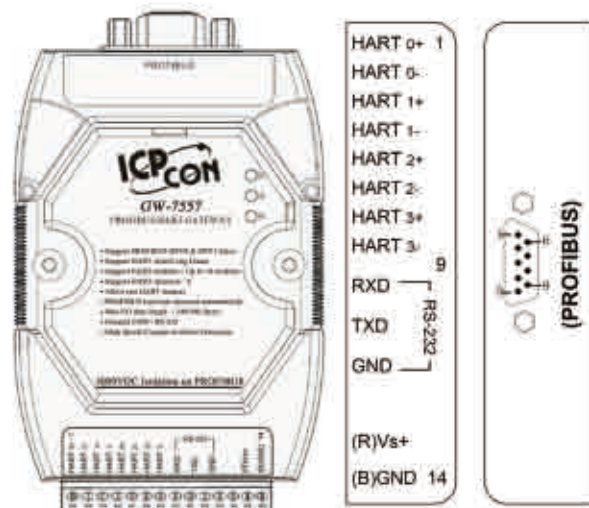
Dimensions

The GW-7557 Gateway is specially designed for the slave device of PROFIBUS DP protocol. It allows the PROFIBUS master to access the HART slave devices. These HART slave devices may be a transmitter, an actuator, a current output device and so forth. In addition, we also provide the utility software for users to configure the GW-7557. By using this module, users can put their HART slave devices into PROFIBUS network very easily.

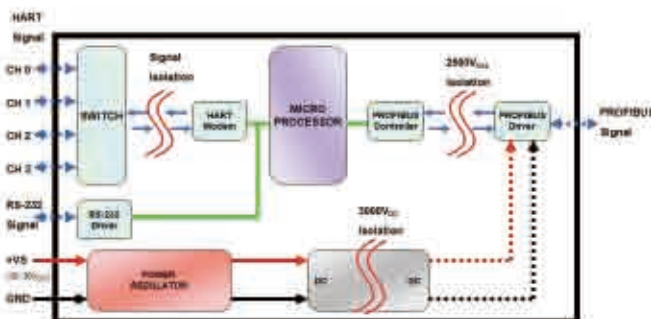
Features

- ◆ Protocol & Hierarchy: DP-V1 Slave
- ◆ Detect transmission rate (9.6 ~ 12000 kbps) automatically
- ◆ Max I/O Data Length : 240/240 Bytes
- ◆ Address 0~126 set by DIP switch or EEPROM
- ◆ Support 4 HART Channels
- ◆ Support HART Short/Long frame
- ◆ Support HART Burst mode
- ◆ Allow two HART Masters
- ◆ Working in point-to-point or multi-drop HART mode
- ◆ Connecting up to 16 HART modules
- ◆ Network Isolation Protection: High Speed iCoupler
- ◆ 3000 VDC isolation protection on PROFIBUS side
- ◆ 4 kV ESD Protection

Pin Assignments



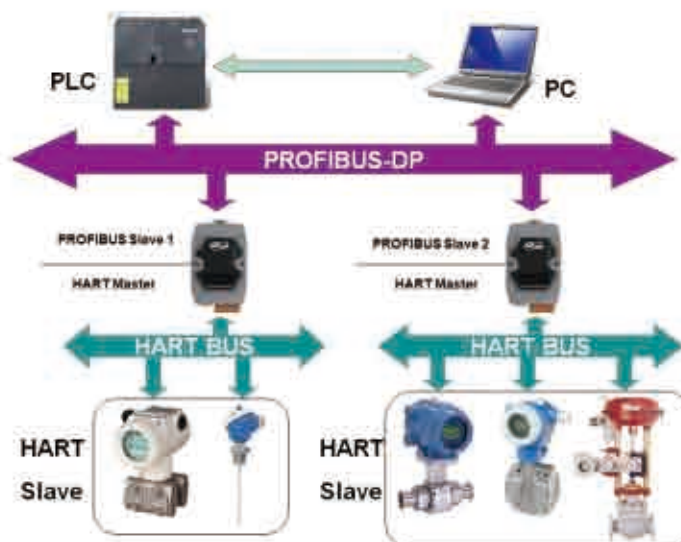
Block Diagram



Hardware Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 16 KB
Watchdog	Watchdog IC CPU built-in
ESD Protection	4 kV class A
PROFIBUS Interface	
Controller	Profichip VPC3+C
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 & DP-V1
UART Interface	
COM	RS-232 (For updating firmware and configuration)
COM Connector	3-pin screwed terminal block (TxD, RxD, GND)
Baud Rate (bps)	Up to 115200
Data bit	7, 8
Stop bit	1, 2
Parity	None, Even, Odd
HART Interface	
HART Interface	8-pin screwed terminal block
HART Channel	4 channels
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +30 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	2.5 W
Mechanism	
Installation	DIN-Rail
Dimensions	72 mm x 33 mm x 119 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-30 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Applications



Ordering Information

GW-7557-G CR	PROFIBUS/HART Gateway
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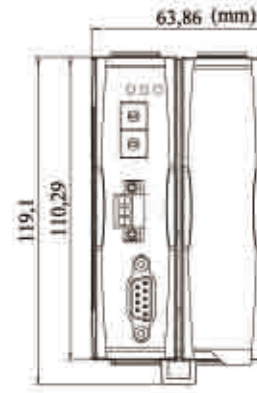


PROFIBUS Remote I/O

PROFIBUS Remote I/O Unit with 1 Expansion Slot   



PROFI-8155



Dimensions

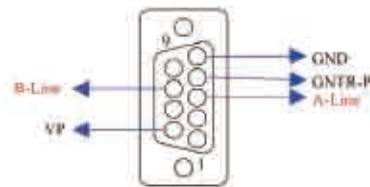
The PROFI-8155 Remote I/O Unit is specially designed for the slave device of PROFIBUS DP protocol. It supports up to 1 slot for ICPDAS I-8k series, I-87k Low Profile series, and I-87k High Profiles series I/O modules. In addition, we also provide hot-swap function for I-87k High Profiles series I/O modules. To setup network, users can choose and configure I/O modules by using the GSD file without any other setting tools.

Features

- ◆ Protocol & hierarchy: DP-V0 Slave
- ◆ Detect transmission rate (9.6 ~ 12000 kbps) automatically
- ◆ Support all I-8k & I-87k I/O Module.
- ◆ Support Device-Related & Channel-Related Diagnosis
- ◆ Address 0~126 set by rotary switches or SSA-Telegram.
- ◆ Support Hot-Swap for I-87k High-Profile Modules.
- ◆ Network Isolation Protection
- ◆ 3000 V_{DC} isolation protection on PROFIBUS side
- ◆ 4 kV ESD Protection (contacting for any terminal).

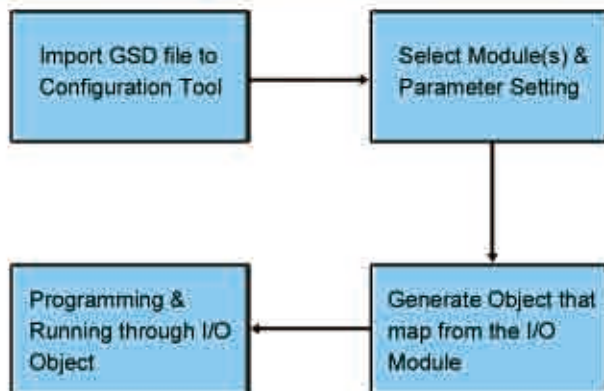
Pin Assignments

Female D-Sub Connector



Pin NO.	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Block Diagram



Hot Swap & Auto-configuration

- ◆ Diagnostic message report when module pulls.
- ◆ Auto-Reconfiguration issue when module plugs.

Hot Swap
Auto-Configuration
(I-87K High-Profile)

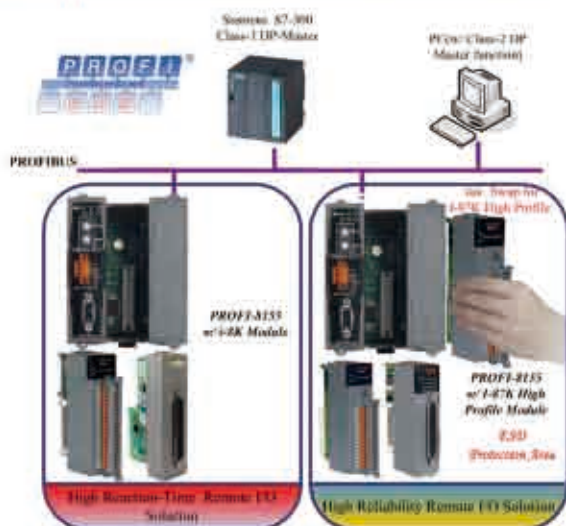


Hardware Specifications

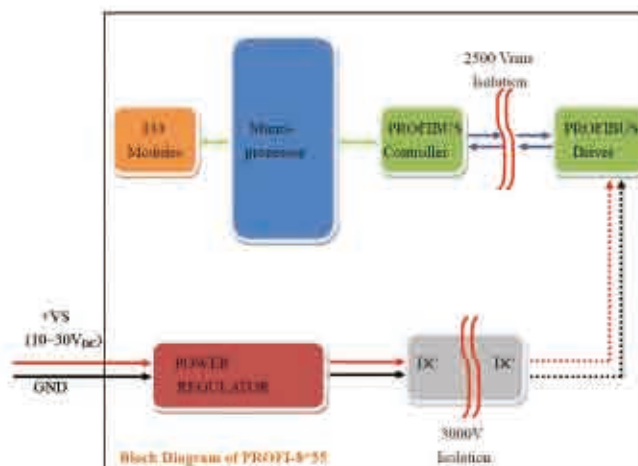
Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB
Watchdog	Watchdog IC CPU built-in
Expansion Slot	1 slot
ESD Protection	4 kV class A
PROFIBUS Interface	
Controller	Profichip VPC3+C
Transceiver	ADI ADM2486
Connector	9-pin female D-Sub
Baud Rate (bps)	9.6 k, 19.2 k, 45.45 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 V _{rms} for bus-to-logic
Protocol	DP-V0 DP-V1
UART Interface	
COM	RS-232 on board (For updating firmware) ^{Note 1.}
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +30 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	3 W
Mechanism	
Installation	DIN-Rail
Dimensions	95 mm x 91 mm x 132 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

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

Application



Diagram



Ordering Information

PROFI-8155 CR

PROFIBUS Remote I/O Unit with 1 Expansion Slot (RoHS)

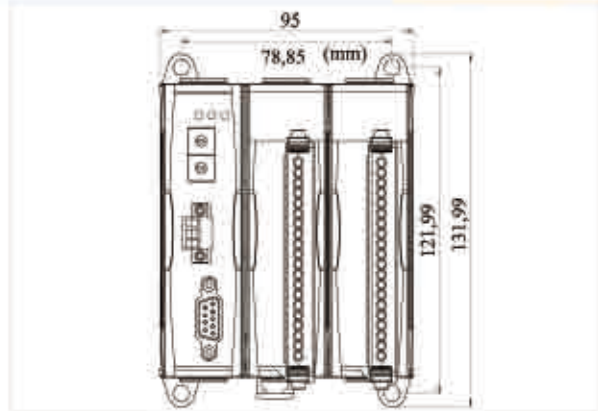


PROFIBUS Remote I/O

PROFIBUS Remote I/O Unit with 2 Expansion Slots   



PROFI-8255



Dimensions

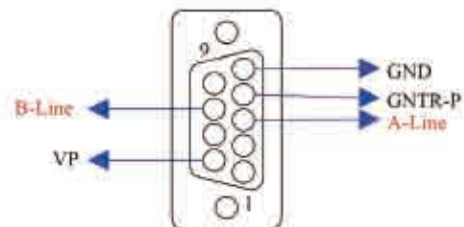
The PROFI-8255 Remote I/O Unit is specially designed for the slave device of PROFIBUS DP protocol. It supports up to 2 slots for ICPDAS I-8k series, I-87k Low Profile series, and I-87k High Profiles series I/O modules. In addition, we also provide hot-swap function for I-87k High Profiles series I/O modules. To setup network, users can choose and configure I/O modules by using the GSD file without any other setting tools.

Features

- ◆ Protocol & hierarchy: DP-V0 Slave
- ◆ Detect transmission rate (9.6 ~ 12000 kbps) automatically
- ◆ Support all I-8k & I-87k I/O Module.
- ◆ Support Device-Related & Channel-Related Diagnosis
- ◆ Address 0~126 set by rotary switches or SSA-Telegram.
- ◆ Support Hot-Swap for I-87k High-Profile Modules.
- ◆ Network Isolation Protection
- ◆ 3000 V_{DC} isolation protection on PROFIBUS side
- ◆ 4 kV ESD Protection (contacting for any terminal).

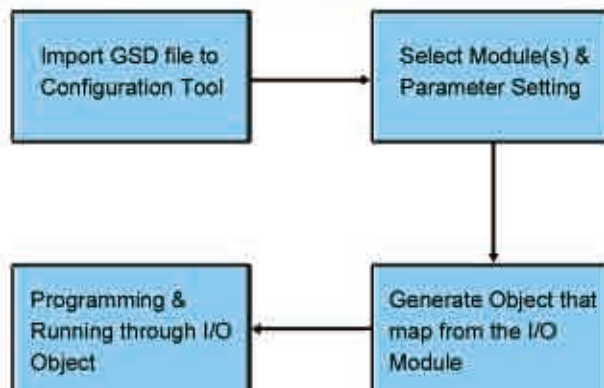
Pin Assignments

Female D-Sub Connector



Pin NO.	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Design Flowchart



Hot-Swap & Auto-configuration

- ◆ Diagnostic Message report when module pulls.
- ◆ Auto-Reconfiguration issue when module plugs.

Hot Swap
Auto-Configuration
(I-87K High-Profile)

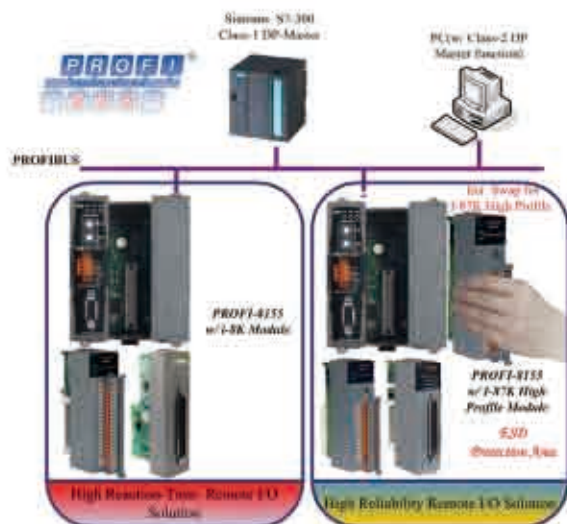


Hardware Specifications

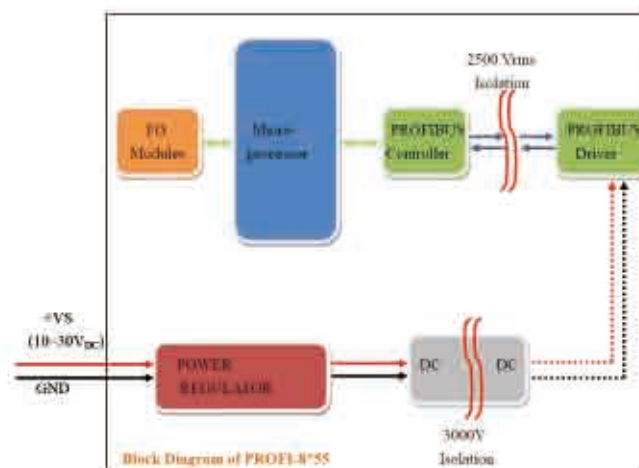
Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB
Watchdog	Watchdog IC CPU built-in
Expansion Slot	2 slot
ESD Protection	4 kV class A
PROFIBUS Interface	
Controller	Profichip VPC3+C
Transceiver	ADI ADM2486
Connector	9-pin female D-Sub
Baud Rate (bps)	9.6 k, 19.2 k, 45.45 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 V _{rms} for bus-to-logic
Protocol	DP-V0 DP-V1
UART Interface	
COM	RS-232 on board (For updating firmware) ^{Note 1.}
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +30 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	3 W
Mechanism	
Installation	DIN-Rail
Dimensions	95 mm x 91 mm x 132 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

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

Application



Diagram



Ordering Information

PROFI-8255 CR	PROFIBUS Remote I/O Unit with 2 Expansion Slots (RoHS)
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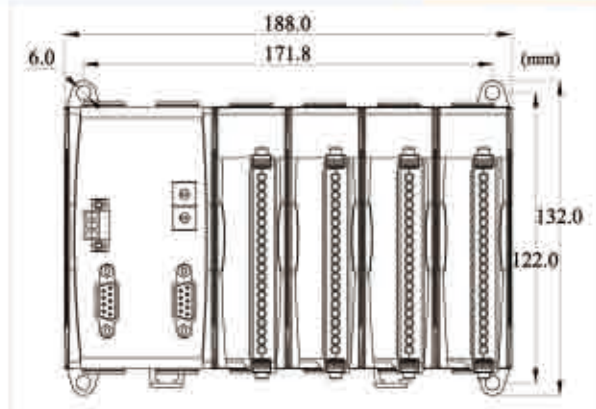
PROFIBUS Remote I/O

PROFIBUS Remote I/O Unit with 4 Expansion Slots   

PROFIBUS Series



PROFI-8455



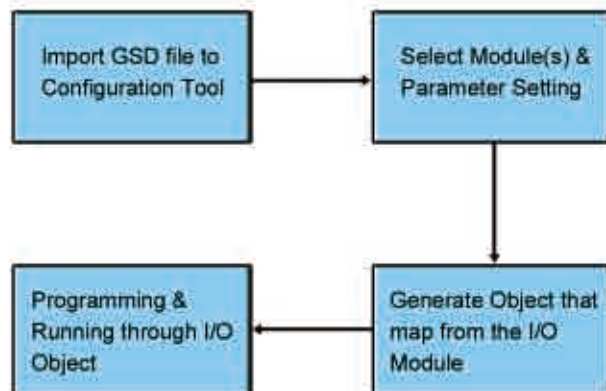
Dimensions

The PROFI-8455 Remote I/O Unit is specially designed for the slave device of PROFIBUS DP protocol. It supports up to 4 slots for ICPDAS I-8k series, I-87k Low Profile series, and I-87k High Profiles series I/O modules. In addition, we also provide hot-swap function for I-87k High Profiles series I/O modules. To setup network, users can choose and configure I/O modules by using the GSD file without any other setting tools.

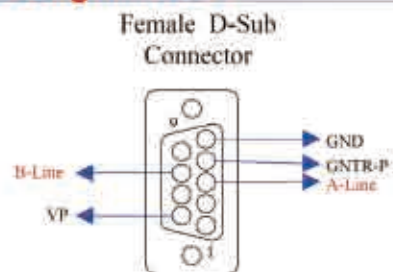
Features

- ◆ Protocol & hierarchy: DP-V0 Slave
- ◆ Detect transmission rate (9.6 ~ 12000 kbps) automatically
- ◆ Support all I-8k & I-87k I/O Module.
- ◆ Support Device-Related & Channel-Related Diagnosis.
- ◆ Address 0~126 set by rotary switches or SSA-Telegram.
- ◆ Support Hot-Swap for I-87k High-Profile Modules.
- ◆ Network Isolation Protection
- ◆ 3000 V_{DC} isolation protection on PROFIBUS side.
- ◆ 4 kV ESD Protection (contacting for any terminal).

Design Flowchart



Pin Assignments



Pin NO.	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Hot-Swap & Auto-configuration

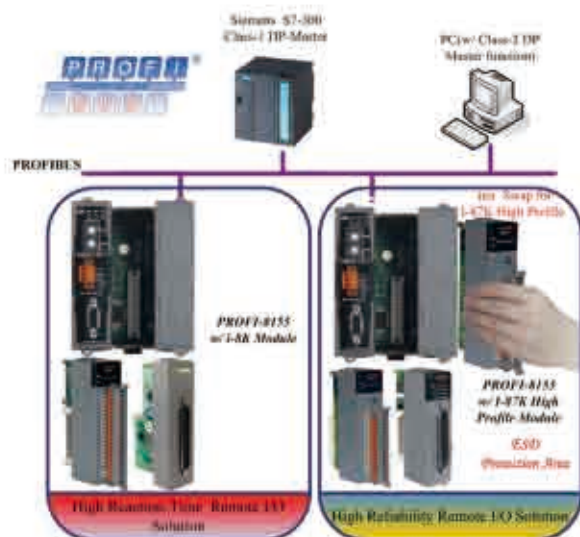
- ◆ Diagnostic message report when module pulls.
- ◆ Auto-Reconfiguration issue when module plugs.



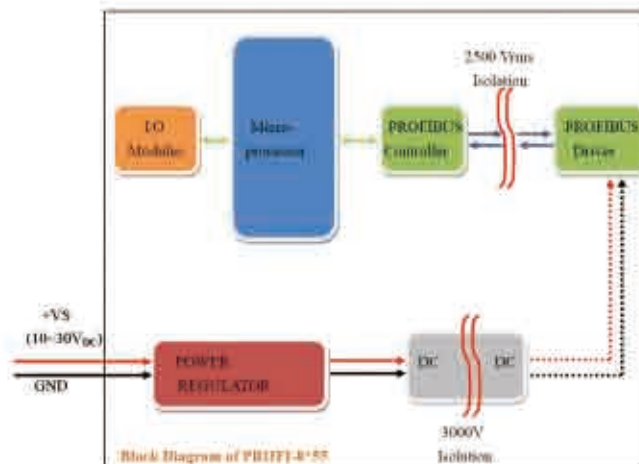
Hardware Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB
Watchdog	Watchdog IC CPU built-in
Expansion Slot	4 slots
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.}
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +30 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	5 W
Mechanism	
Installation	DIN-Rail or Wall Mounting
Dimensions	188 mm x 91 mm x 132 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Diagram



Ordering Information

PROFI-8455	PROFIBUS Remote I/O Unit with 4 Expansion Slots
PROFI-8455 CR	PROFIBUS Remote I/O Unit with 4 Expansion Slots(RoHS)



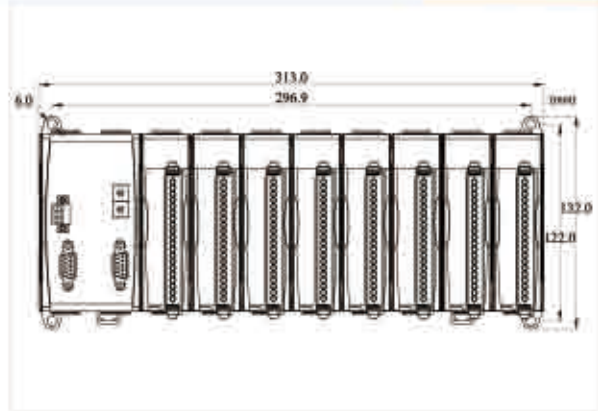
PROFIBUS Remote I/O

PROFIBUS Remote I/O Unit with 4 Expansion Slots   

PROFIBUS Series



PROFI-8855



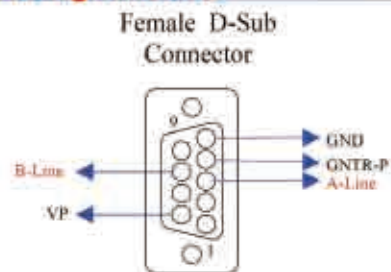
Dimensions

The PROFI-8855 Remote I/O Unit is specially designed for the slave device of PROFIBUS DP protocol. It supports up to 4 slots for ICPDAS I-8k series, I-87k Low Profile series, and I-87k High Profiles series I/O modules. In addition, we also provide hot-swap function for I-87k High Profiles series I/O modules. To setup network, users can choose and configure I/O modules by using the GSD file without any other setting tools.

Features

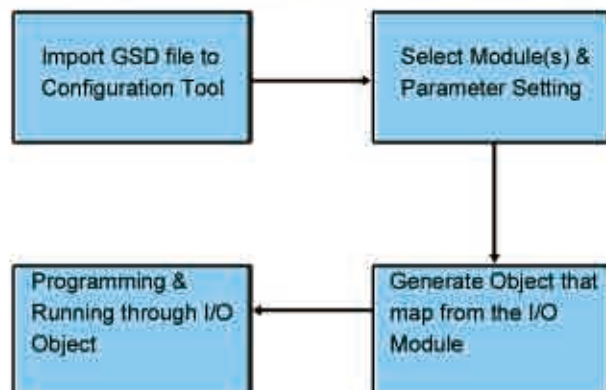
- ◆ Protocol & hierarchy: DP-V0 Slave
- ◆ Detect transmission rate (9.6 ~ 12000 kbps) automatically
- ◆ Support all I-8k & I-87k I/O Module.
- ◆ Support Device-Related & Channel-Related Diagnosis.
- ◆ Address 0~126 set by rotary switches or SSA-Telegram.
- ◆ Support Hot-Swap for I-87k High-Profile Modules.
- ◆ Network Isolation Protection
- ◆ 3000 V_{DC} isolation protection on PROFIBUS side.
- ◆ 4 kV ESD Protection (contacting for any terminal).

Pin Assignments



Pin NO.	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Design Flowchart



Hot-Swap & Auto-configuration

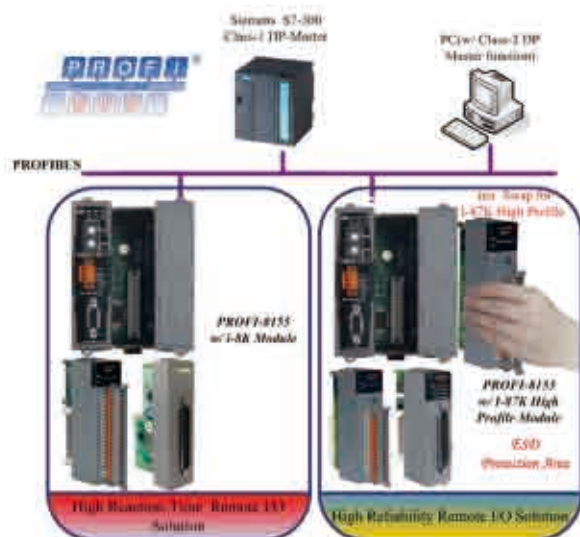
- ◆ Diagnostic message report when module pulls.
- ◆ Auto-Reconfiguration issue when module plugs.



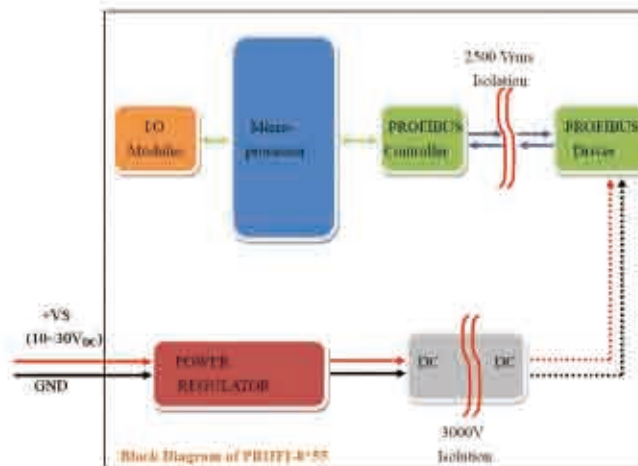
Hardware Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB
Watchdog	Watchdog IC CPU built-in
Expansion Slot	8 slots
ESD Protection	4 kV class A
PROFIBUS Interface	
Controller	Profichip VPC3+C
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.}
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +30 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	5 W
Mechanism	
Installation	DIN-Rail or Wall Mounting
Dimensions	355 mm x 91 mm x 132 mm(W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Diagram



Ordering Information

PROFI-8855 CR	PROFIBUS Remote I/O Unit with 8 Expansion Slots(RoHS)
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PROFIBUS Digital I/O Modules Comparison Table

Model Name	PROFI-5045	PROFI-5050	PROFI-5051	PROFI-5052	PROFI-5053	PROFI-5055	PROFI-5060
Pictures							
DI							
Channels	-	16	24	12	24	8	8
Isolation Voltage	-	-	3750 V _{rms}	5000 V _{rms}	-	3750 V _{rms}	3750 V _{rms}
Contact	-	Dry	Wet	Wet	Dry	Wet	Wet
Sink/Source(NPN/PNP)	-	Sink/Source	Sink/Source	Sink/Source	-	Sink/Source	Sink/Source
ON Voltage Level	-	+4~+30 V _{DC}	+10~+50 V _{DC}	+4~+30 V _{DC}	Open	+10~+50 V _{DC}	+4~+30 V _{DC}
OFF Voltage Level	-	+1 V _{DC} Max.	+4 V _{DC} Max.	+1 V _{DC} Max.	Close to IN.GND	+4 V _{DC} Max.	+1 V _{DC} Max.
Input Impedance	-	-	10 KΩ	3 KΩ	-	10 KΩ	3 KΩ
DO							
Channels	24	8	-	-	-	8	4
Isolation Voltage	3750 V _{rms}	-	-	-	-	3750 V _{rms}	-
Type	Open Collector	Open Collector	-	-	-	Open Collector	Relay (Form C)
Sink/Source(NPN/PNP)	Sink	Sink	-	-	-	Sink	-
Load Voltage	+10~+40 V _{DC}	+10~+30 V _{DC}	-	-	-	+10~+40 V _{DC}	0~125 V _{AC} 0~30 V _{DC}
Max. Load Current	650mA/channel	30	-	-	-	650 mA/channel	0.6A@125V _{AC} 2A@30V _{DC}
Communication							
Connector	9-pin female D-Sub						
Baud Rate (bps)	9.6 k, 19.2 k, 45.45 k, 93.75 k, 187.5k, 500 k, 1.5 M, 3 M, 6 M, 12 M						
Controller	Profichip VPCLS2						
Transceiver	ADI ADM2486						
Protocol	DP-V0						
Node Address	0~99 selected by rotary switch						
System							
ESD Protection	4 kV Contact for each channel						
Isolation	3000 V _{DC} for DC-to-DC, 2500 V _{rms} for bus-to-logic						
Watchdog	Yes						

PROFIBUS Digital I/O Modules Comparison Table

Model Name	PROFI-5045	PROFI-5050	PROFI-5051	PROFI-5052	PROFI-5053	PROFI-5055	PROFI-5060
Pictures							
Power							
Input range	Unregulated +10 ~ +40 V _{DC}						
Power Consumption	1W	1W	1W	1W	1W	1W	2.1W
Mechanism							
Installation	DIN-Rail						
Dimensions (W x L x H)	91mm x 128 mm x 52mm						
Environment							
Operating Temperature	-25 ~ +75 °C						
Storage Temperature	-30 ~ +80 °C						
Relative Humidity	10 ~ 90% RH, non-condensing						

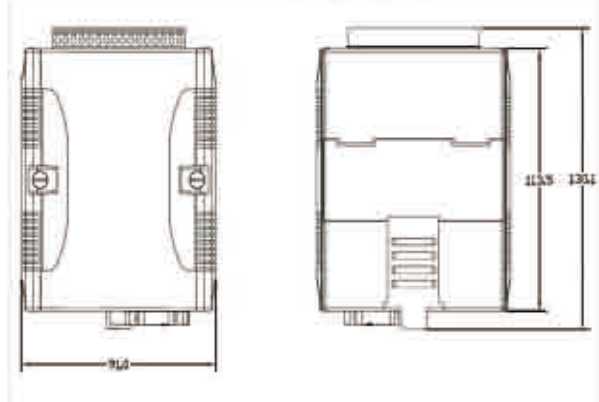


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5045



Dimensions

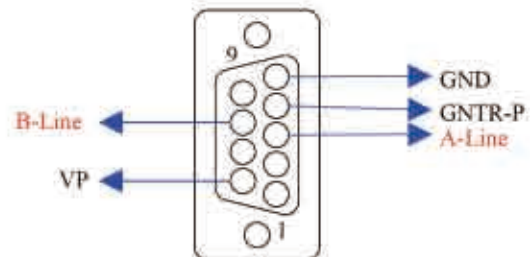
The PROFI-5045 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5045 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5045, 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_{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)

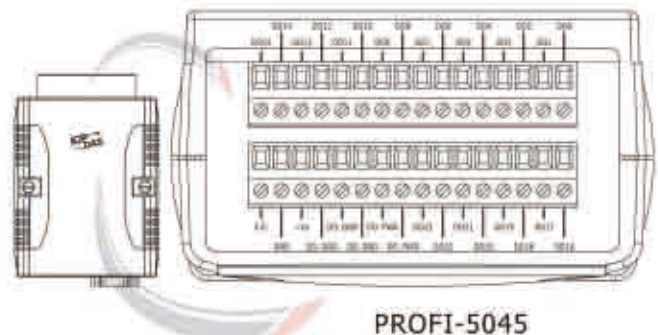
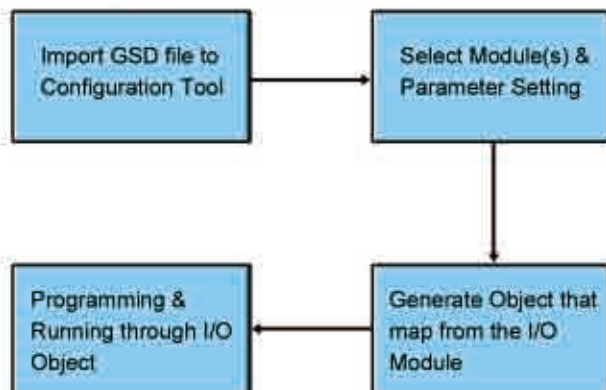
Pin Assignments

Female D-Sub Connector



Pin NO	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Design Flowchart

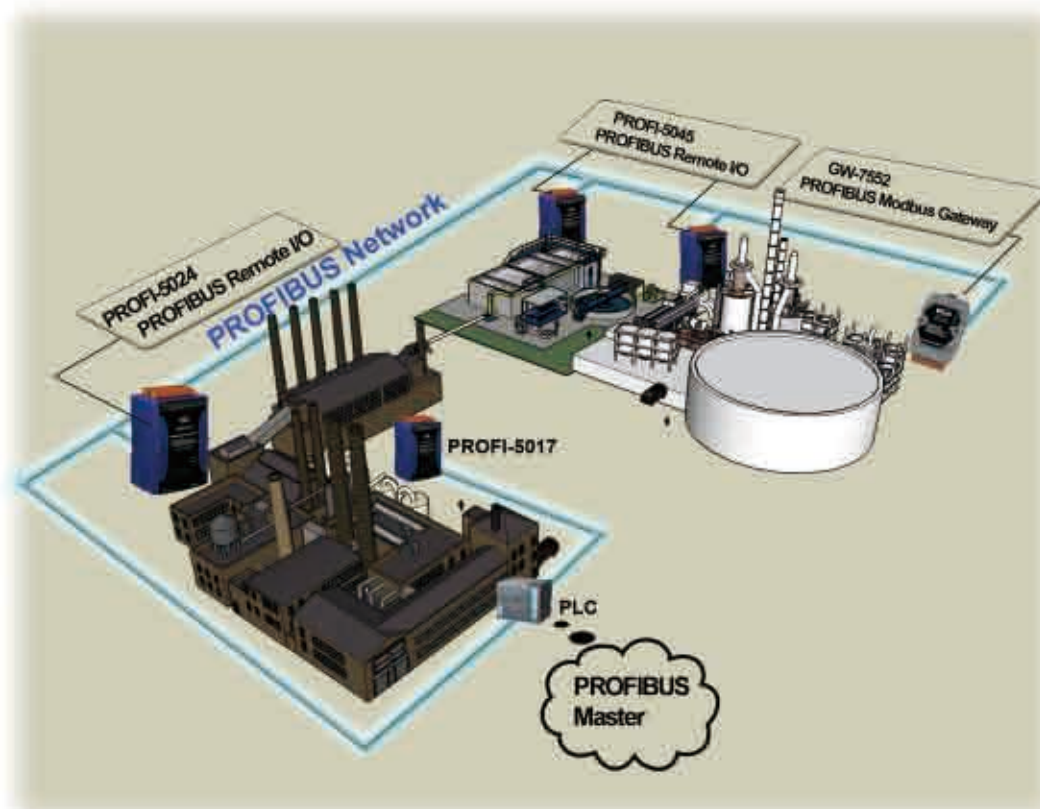


PROFI-5045

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 V _{rms} for bus-to-logic
Protocol	DP-V0
LED	
Round LED	PWR LED, RUN LED
Power	
Power supply	Unregulated +10 ~ +40 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	1 W
I/O	
Digital Output	24 Channels (Sink), Isolated with common ground Load Voltage: +10 ~ +40V Maximum Load Current: 650mA w/ Short-Circuit Protection Isolation Voltage: 3750 V _{rms}
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 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Ordering Information

PROFI-5045 CR	PROFIBUS Remote I/O Module (24-Ch Isolated Digital Output)
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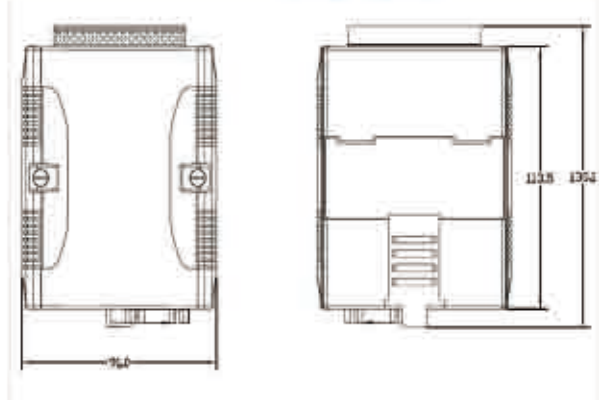


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5050



Dimensions

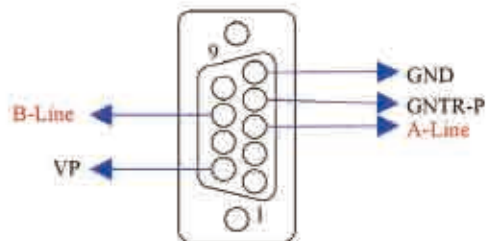
The PROFI-5050 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5050 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5050, 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)

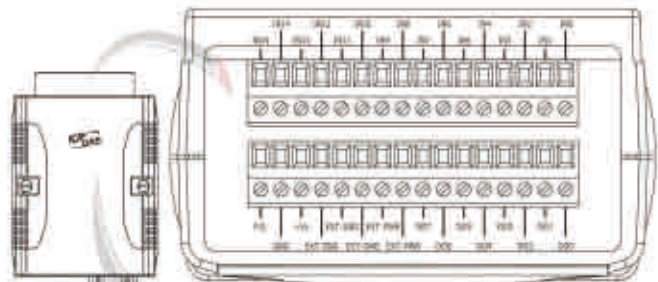
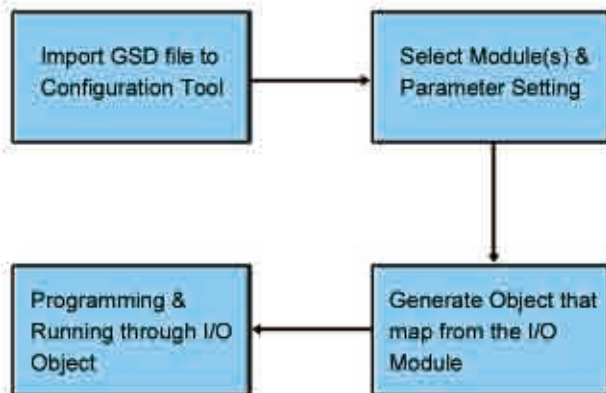
Pin Assignments

Female D-Sub Connector



Pin NO	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Design Flowchart

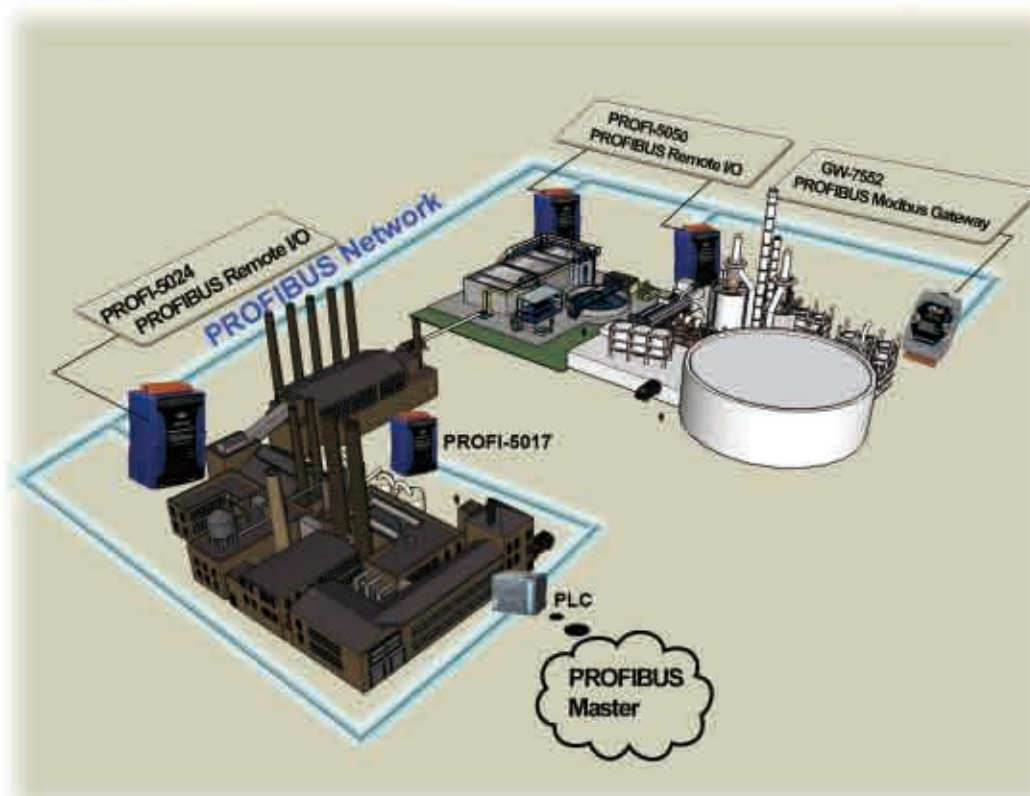


PROFI-5050

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 V _{rms} for bus-to-logic
Protocol	DP-V0
LED	
Round LED	PWR LED, RUN LED
Power	
Power supply	Unregulated +10 ~ +40 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	1 W
I/O	
Digital Output	8 Channels (Sink), Non-Isolated with common ground Load Voltage: +10 ~ +30V Maximum Load Current: 30mA w/o Short-Circuit Protection
Digital Input	16 Channels (Sink or Source), Non-Isolated with common ground(or source) Off Voltage Level: +1V Max. On Voltage Level: +4 ~ +30V
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 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Ordering Information

PROFI-5050 CR	PROFIBUS Remote I/O Module (16-Ch Non-Isolated Digital Input & 8-Ch Non-Isolated Digital Output)
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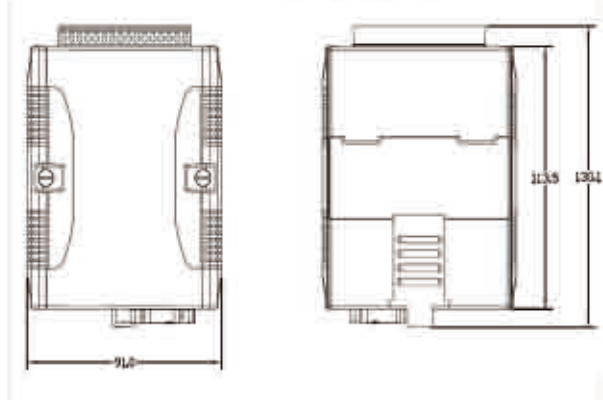


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5051



Dimensions

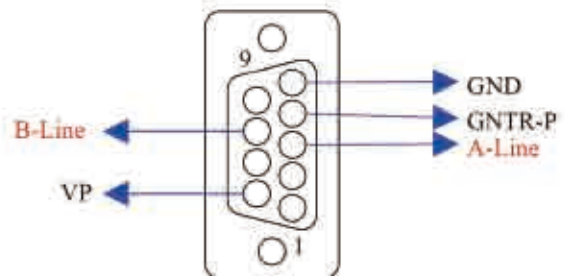
The PROFI-5051 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5051 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5051, 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)

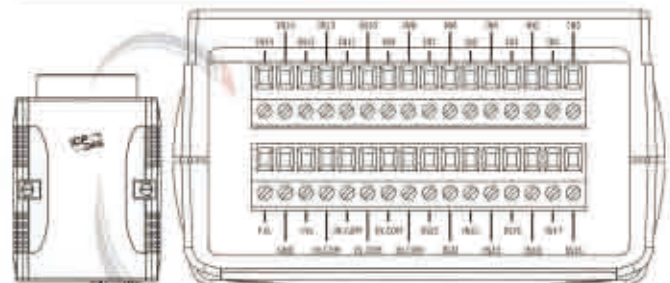
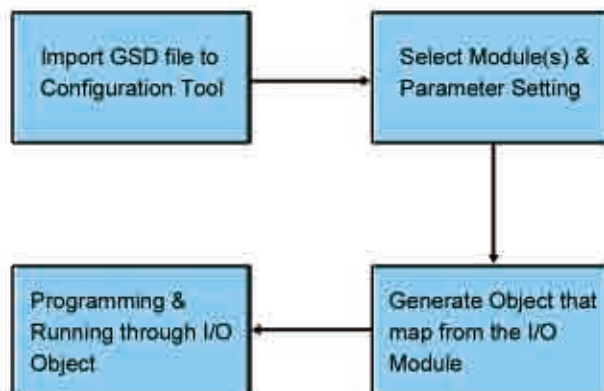
Pin Assignments

Female D-Sub Connector



Pin NO.	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Design Flowchart

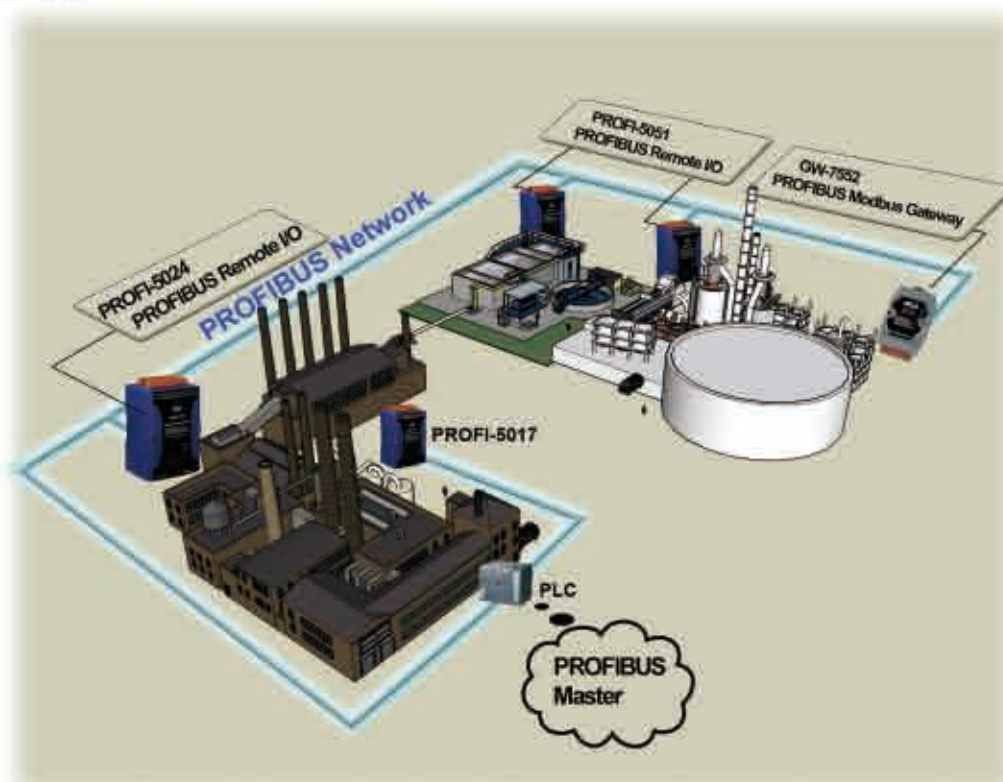


PROFI-5051

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 V _{rms} for bus-to-logic
Protocol	DP-V0
LED	
Round LED	PWR LED, RUN LED
Power	
Power supply	Unregulated +10 ~ +40 V _{DC}
Protection	Reverse polarity protection, Over-voltage brown-out protection
Power Consumption	1 W
I/O	
Digital Input	24 Channels (Sink or Source), Isolated with common ground (or source) Off Voltage Level: +4V Max. On Voltage Level: +10 ~ +50V Input Impedance: 10KΩ in series with opto-coupler Isolation Voltage: 3750 V _{rms}
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 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Ordering Information

PROFI-5051 CR	PROFIBUS Remote I/O Module (24-Ch Isolated Digital Input)
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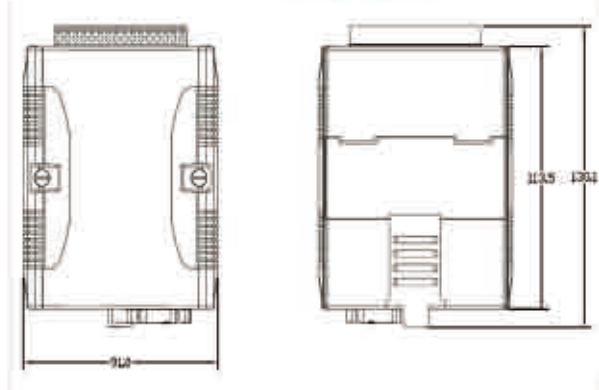


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5052



Dimensions

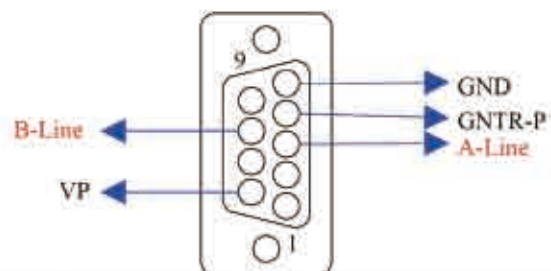
The PROFI-5052 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5052 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5052,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

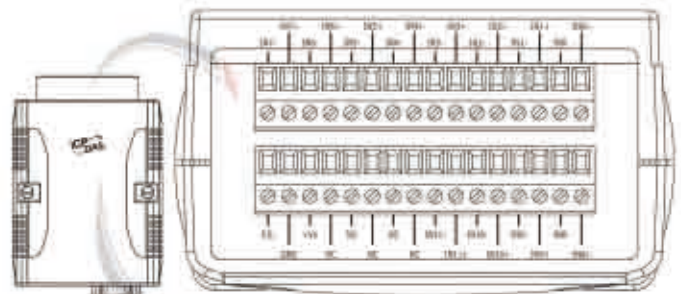
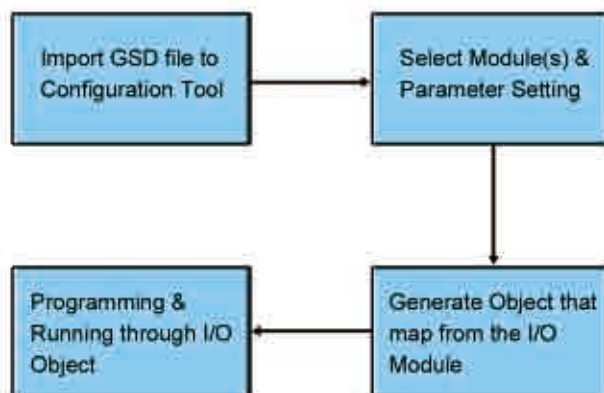
Pin Assignments

Female D-Sub Connector



Pin NO	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Design Flowchart

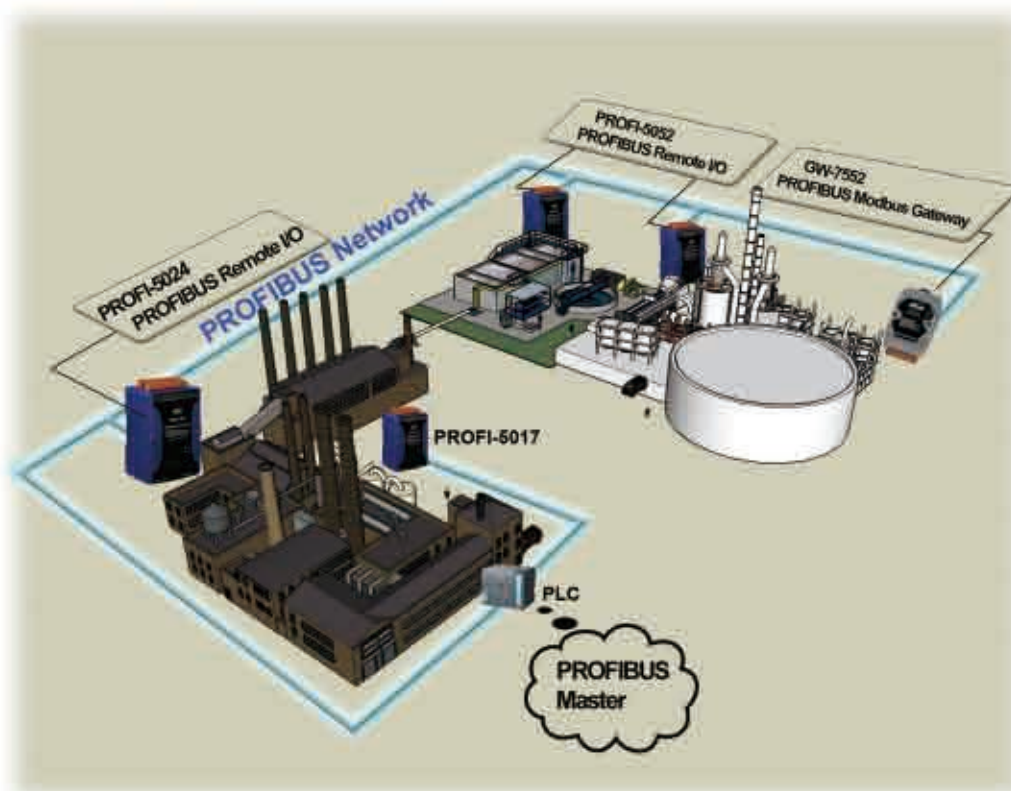


PROFI-5052

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 V _{rms} for bus-to-logic
Protocol	DP-V0
LED	
Round LED	PWR LED, RUN LED
Power	
Power supply	Unregulated +10 ~ +40 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: 3K Ω in series with opto-coupler Isolation Voltage: 5000 V _{rms}
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 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Ordering Information

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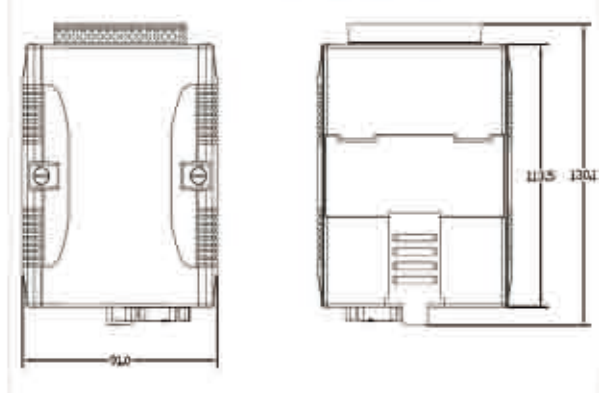


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5053



Dimensions

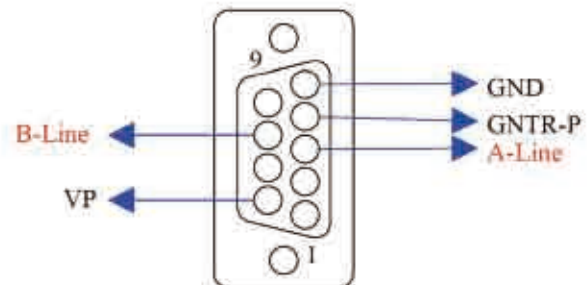
The PROFI-5053 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5053 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5053, 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_{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)

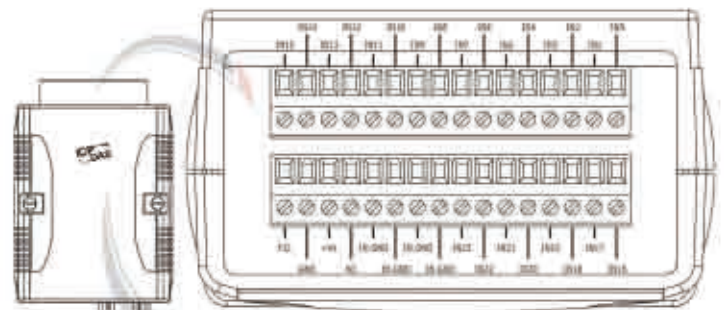
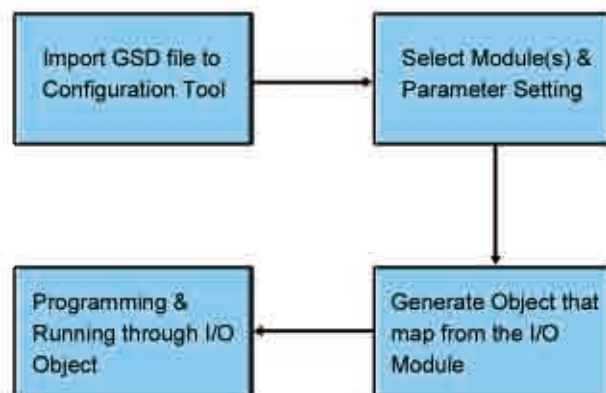
Pin Assignments

Female D-Sub Connector



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

Design Flowchart

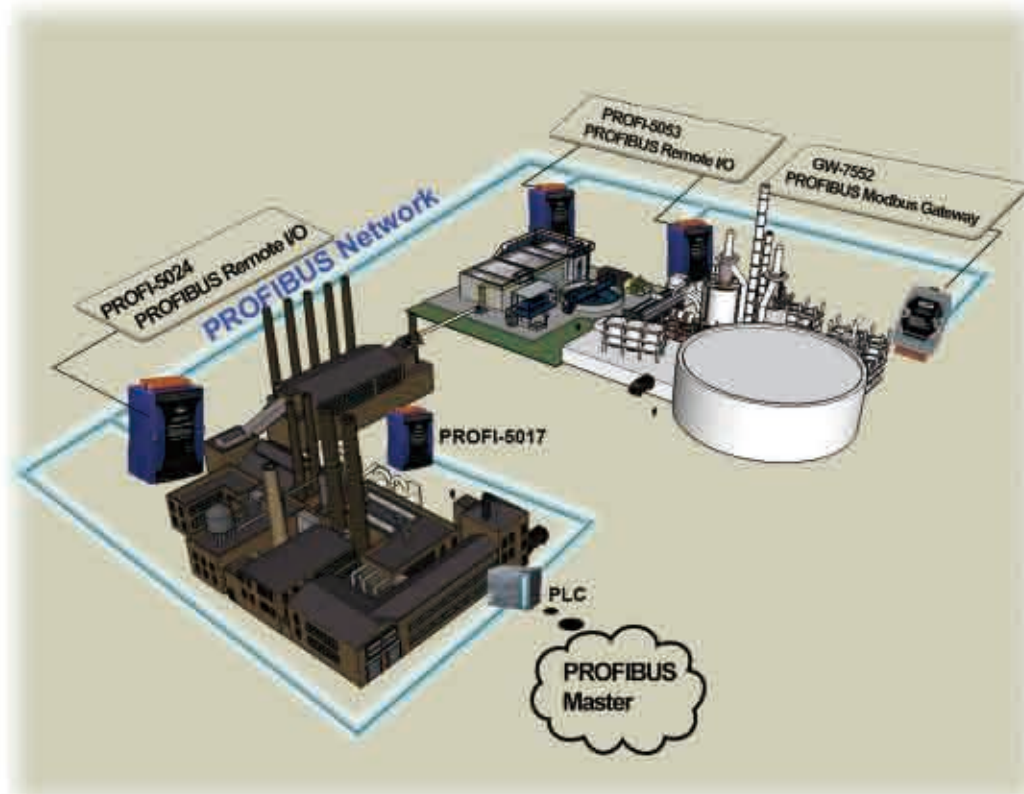


PROFI-5053

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 V _{rms} for bus-to-logic
Protocol	DP-V0
LED	
Round LED	PWR LED, RUN LED
Power	
Power supply	Unregulated +10 ~ +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 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Ordering Information

PROFI-5053 CR	PROFIBUS Remote I/O Module (24-Ch Non-Isolated Digital Input)
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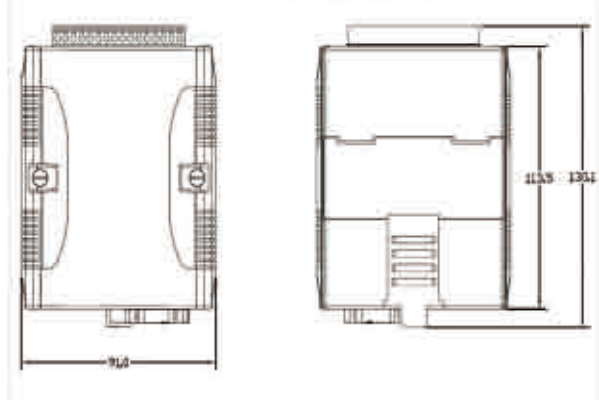


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5055



Dimensions

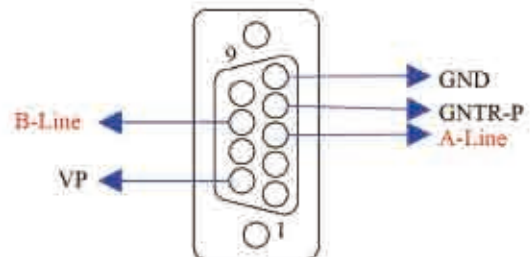
The PROFI-5055 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5055 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5055, 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
- ◆ 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)

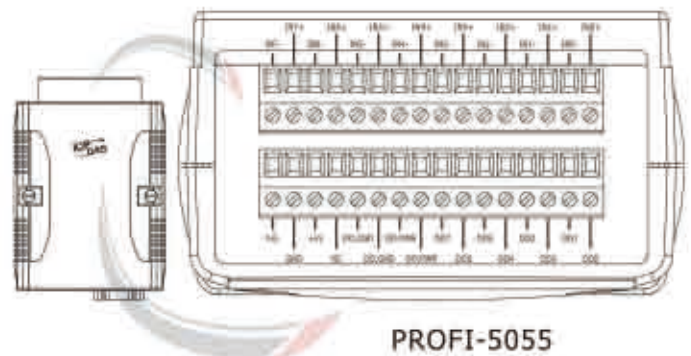
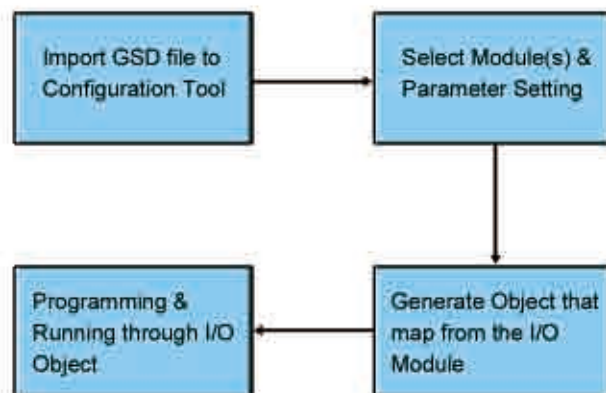
Pin Assignments

Female D-Sub Connector



Pin NO.	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

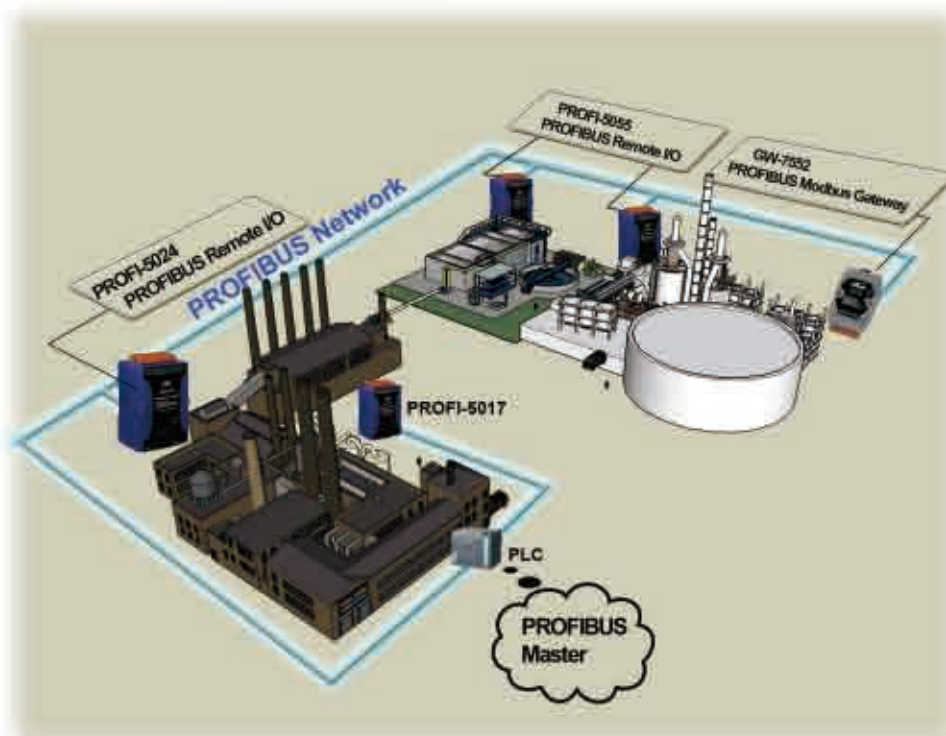
Design Flowchart



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 V _{rms} for bus-to-logic
Protocol	DP-V0
LED	
Round LED	PWR LED, RUN LED
Power	
Power supply	Unregulated +10 ~ +40 V _{DC}
Protection	Reverse polarity protection, Over-voltage brown-out protection
Power Consumption	1 W
I/O	
Digital Output	8 Channels (Sink), Isolated with common ground Load Voltage: +10 ~ +40V Maximum Load Current: 650mA w/o Short-Circuit Protection Isolation Voltage: 3750V _{rms}
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: 3750V _{rms}
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 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

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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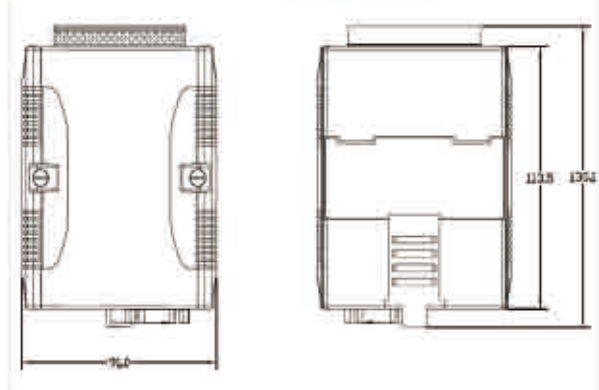


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5060



Dimensions

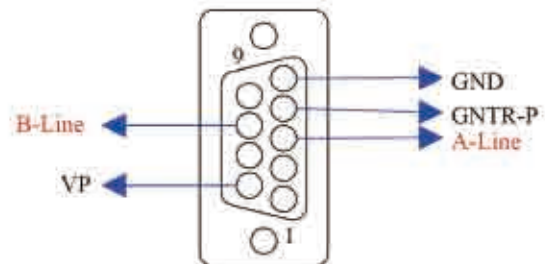
The PROFI-5060 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5060 provides $\pm 4kV$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5060, 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 10~40 V_{DC}) and operating temperature (-25°C~+75°C)

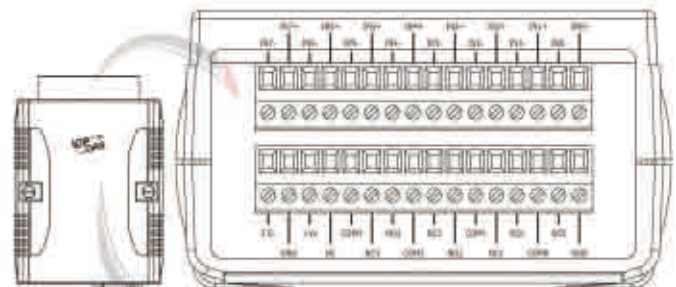
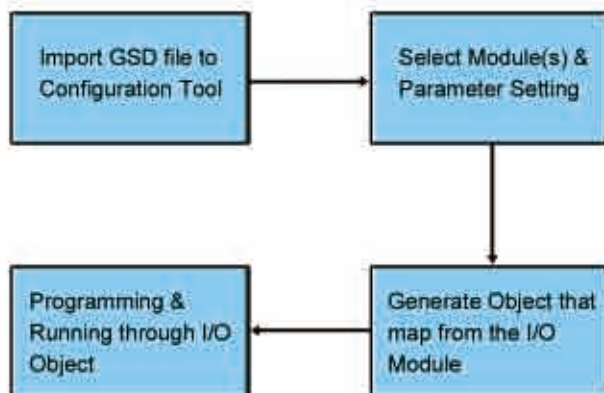
Pin Assignments

Female D-Sub Connector



Pin NO.	Signal	Meaning
8	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
3	A-Line	Receive/Transmit data-minus

Block Diagram

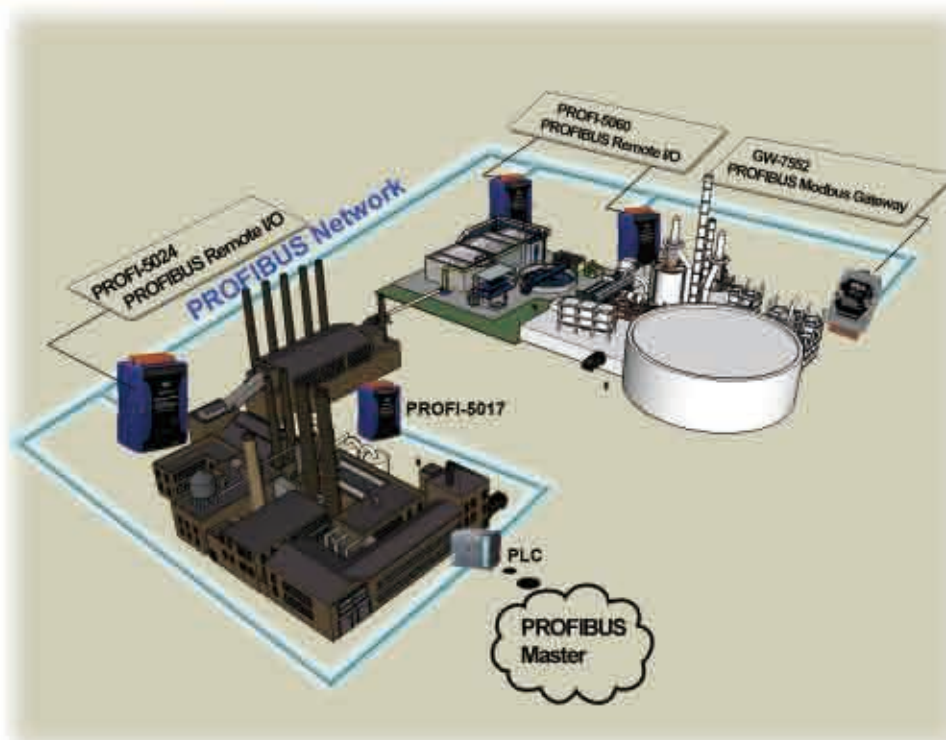


PROFI-5060

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 V _{rms} for bus-to-logic
Protocol	DP-V0
LED	
Round LED	PWR LED, RUN LED
Power	
Power supply	Unregulated +10 ~ +40 V _{DC}
Protection	Reverse polarity protection, Over-voltage brown-out protection
Power Consumption	1 W
I/O	
Digital Output	4 Channels (Form C) Contact Rating: 0.6A@125VAC, 2A@30V _{DC} Operating Time: 3ms. Release Time: 2ms. (Typical) Minimum Life: 500,000 Ops.
Digital Input	8 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: 3750V _{rms}
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 ~ 85 °C
Humidity	5 ~ 95% RH, non-condensing

Application



Ordering Information

PROFI-5060 CR	PROFIBUS Remote I/O Module (8-channel Isolated Digital Input and 4-channel Relay Output)
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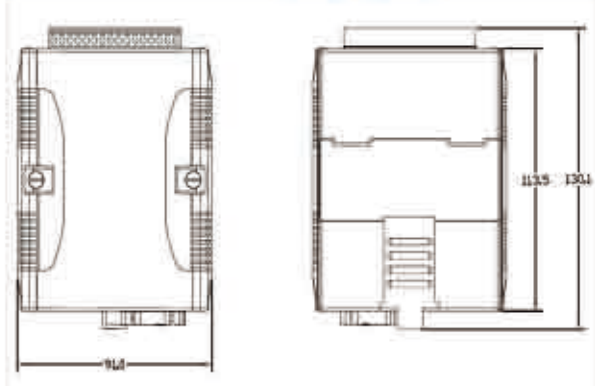


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5017



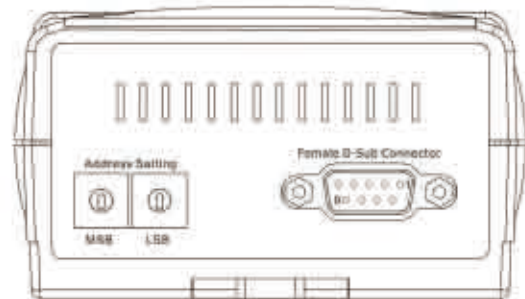
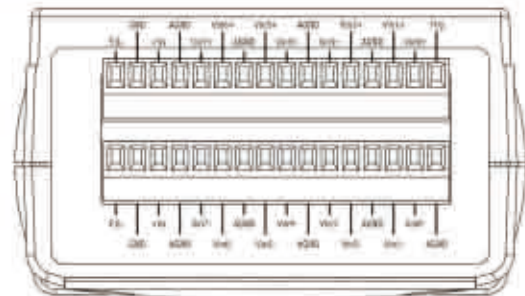
Dimensions

The PROFI-5017 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-5017 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5017, 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-bits 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 10~40V_{DC}) and operating temperature (-25°C~+75°C)

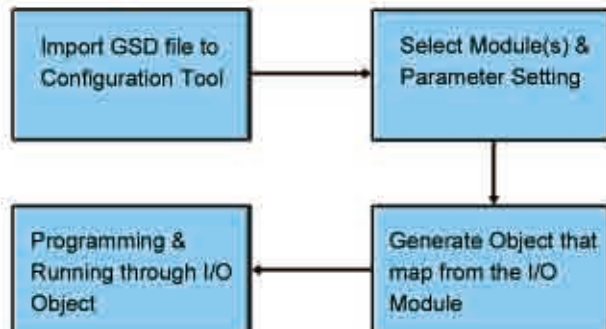
Pin Assignments



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

Design Flowchart

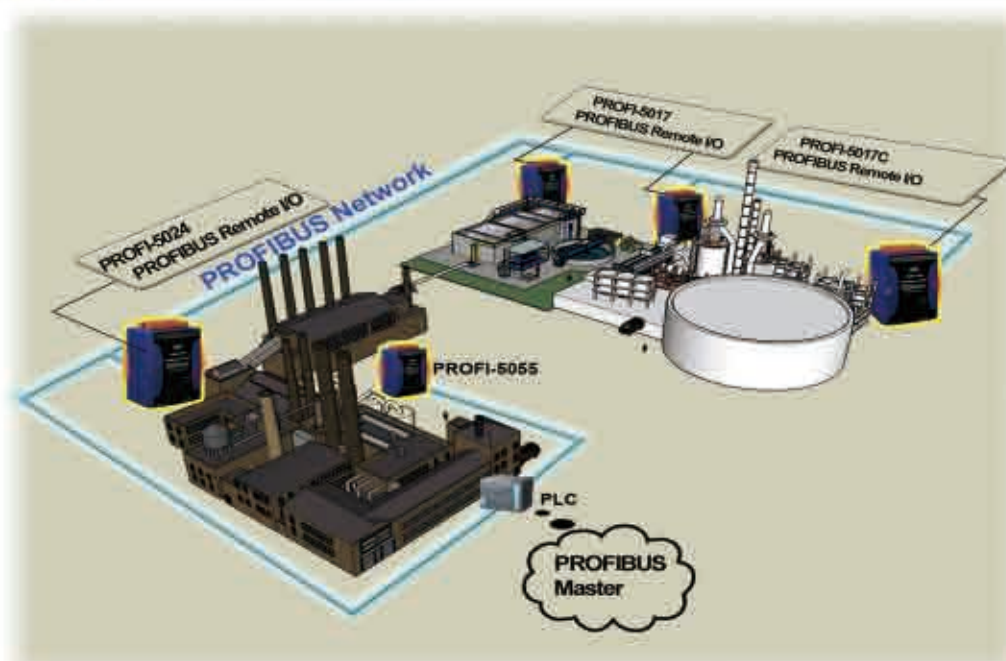


Hardware Specifications

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.}
I/O	
Analog Input	8 channel differential voltage input Isolation Voltage:2500Vrms
Input Range	+/- 10V, +/- 5V, +/- 2.5V, +/-1.25V
Accuracy	+/- 0.1 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 °C
Storage Temp.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

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

Application



Ordering Information

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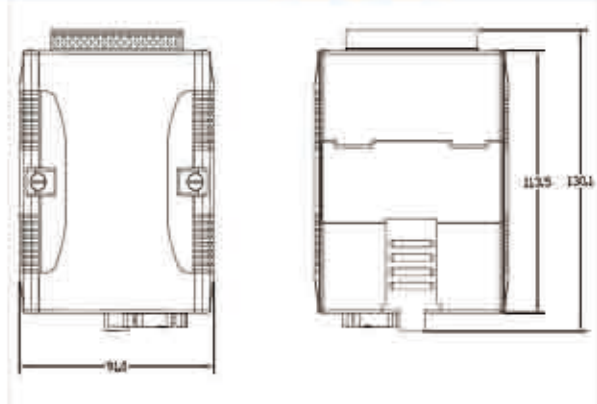


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5017C



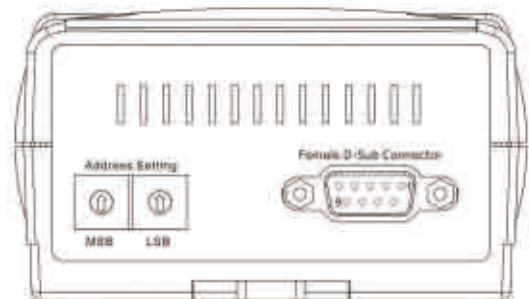
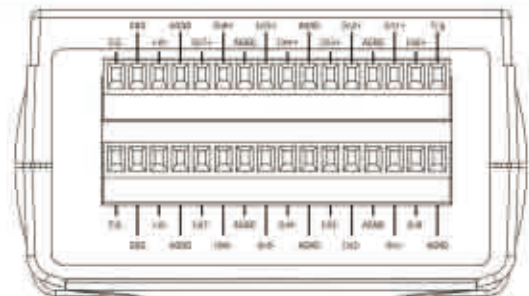
Dimensions

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 $\pm 4\text{kV}$ 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..

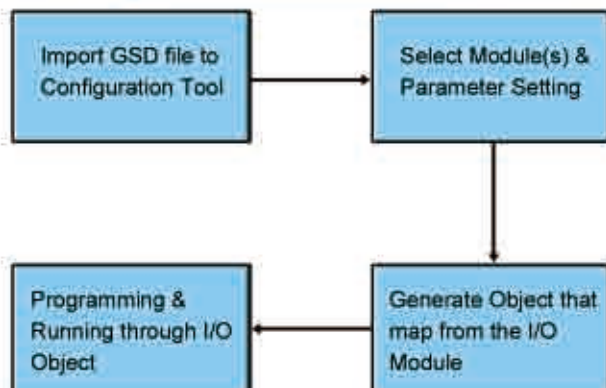
Features

- ◆ 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-bits resolution & 100kps AD converter
- ◆ Network isolation protection
- ◆ 3000V_{DC} isolation protection on PROFIBUS
- ◆ 4kV ESD protection (contact for any terminal)
- ◆ Wide range of power input (DC 10~40V_{DC}) and operating temperature (-25°C~+75°C)

Pin Assignments



Design Flowchart



Female D-Sub Connector

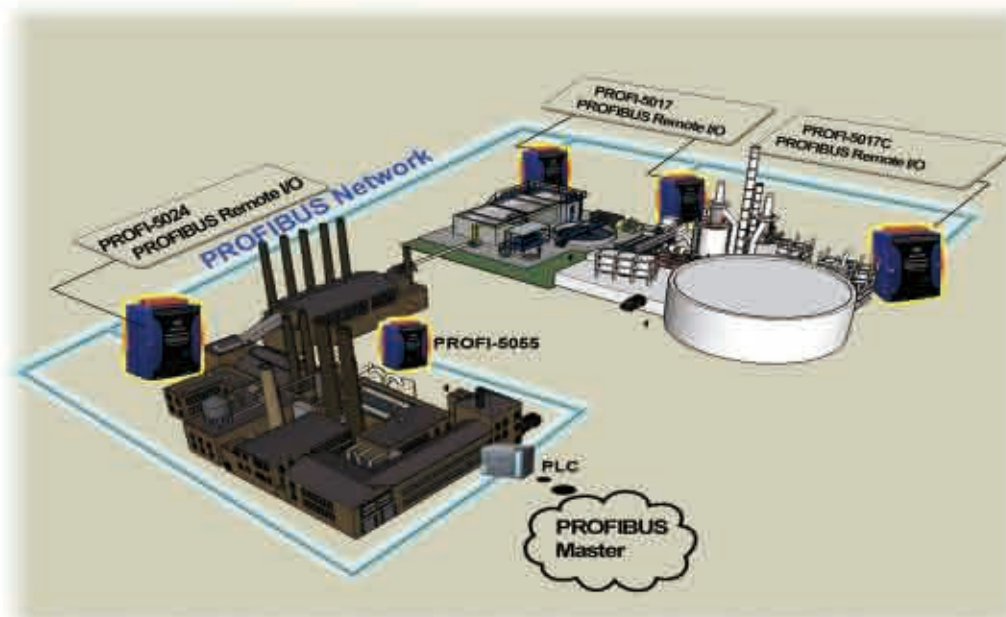
Pin No.	Signal	Meaning
3	A-Line	Receive/Transmit data-minus
4	CNTR-P	Repeater control signal, RTS signal
5	GND	Power ground of active terminator
6	VP	Power 5 volt of active terminator
8	B-Line	Receive/Transmit data-plus

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.}
I/O	
Analog Input	8 channel differential current input Isolation Voltage:2500Vrms
Input Range	0 ~ 20mA
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 °C
Storage Temp.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

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)
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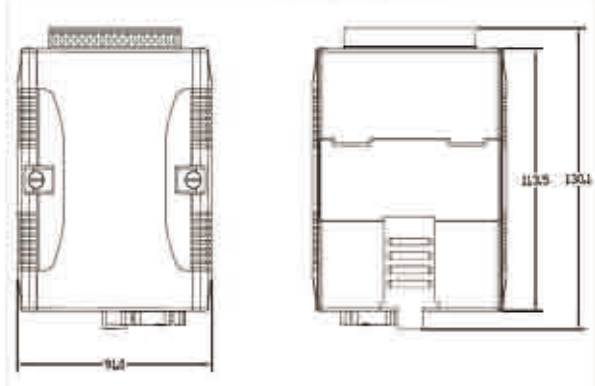


PROFIBUS Remote I/O

PROFIBUS Remote I/O Module



PROFI-5024



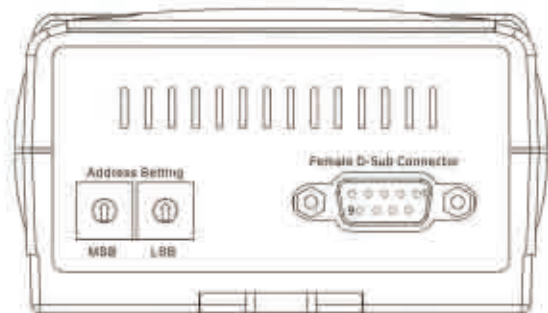
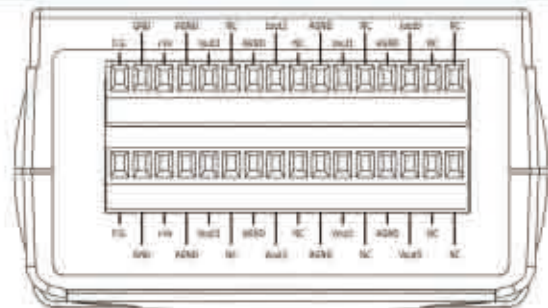
Dimensions

The PROFI-5024 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-5024 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5024, 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-bits resolution DAC
- ◆ Network isolation protection
- ◆ 3000V_{DC} isolation protection on PROFIBUS
- ◆ 4kV ESD protection (contact for any terminal)
- ◆ Wide range of power input (DC 10~40V_{DC}) and operating temperature (-25°C~+75°C)

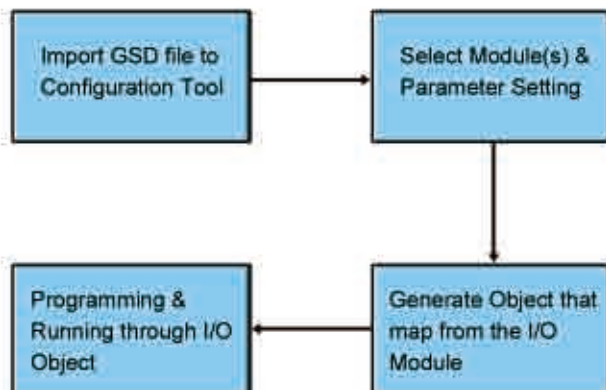
Pin Assignments



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

Design Flowchart

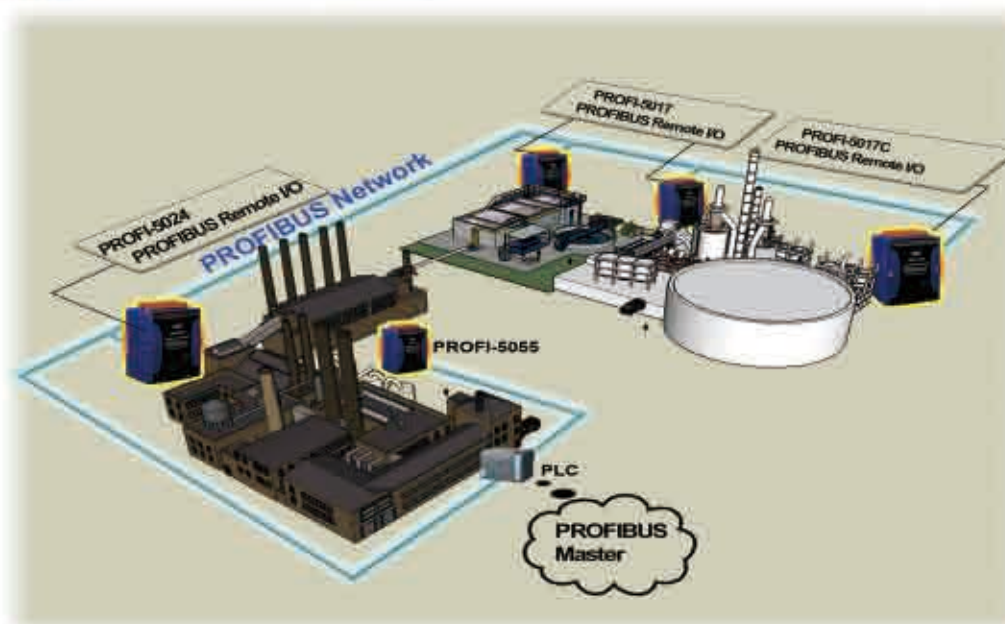


Hardware Specifications

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.}
I/O	
Analog Output	4 Channel Voltage & Current Output Isolation Voltage:3750Vrms
Output Range	+/- 10V, 0 ~ 20mA, 4 ~ 20mA
Accuracy	+/- 0.1% of FSR for Voltage Output ; +/- 0.2% of FSR for Current Output
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	4W
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.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

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

Application



Ordering Information

PROFI-5024 CR	PROFIBUS Remote I/O Module (4-Ch Isolated Analog Voltage & Current Output)
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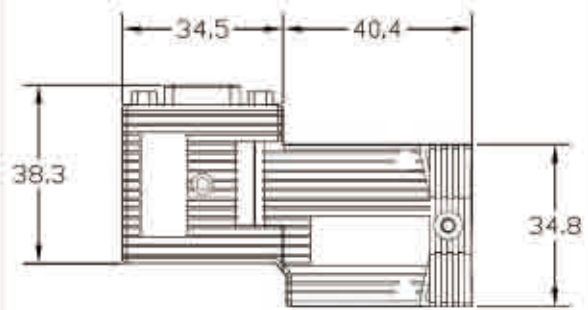


PROFIBUS Accessories

PROFIBUS Connector



CNT-PROFI



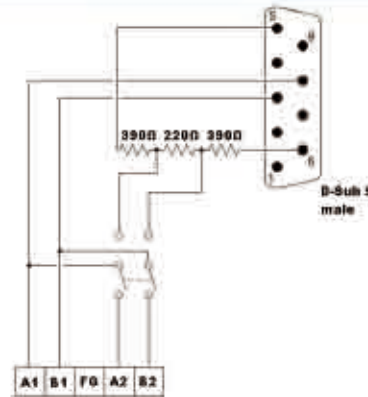
Dimensions

PROFIBUS (PROCESS FIELD BUS) which is anchored in the international standards IEC 61158 and IEC 61784 is an open, digital communication system with a wide range of applications, particularly in the fields of factory and process automation. The CNT-PROFI connector is used to connect a PROFIBUS node to the PROFIBUS line featuring quick-connect technology, making the stripping of bus conductors superfluous. The connector is quick to install, and has a plastic housing and integrated terminating resistors. Anyway the CNT-PROFI could link a PROFIBUS device to a PROFIBUS line easily and fast.

Features

- Built-in switch to select terminal resistor.
- 2 cable entries
- Cable outlet : 90° cable outlet
- Connector : 9-pin, D-Sub male connector
- Baud rate : 9.6kbps ~ 12Mbps
- Operating temperature : -25°C ~ 75°C
- Storage temperature : -30°C ~ 80°C
- Humidity : 10 ~ 90% RH, non-condensing

Internal I/O Structure



Application

PROFIBUS DP Master



GW-7553
PROFIBUS/Modbus Gateway



PROFI-8455
PROFIBUS I/O Unit



PROFI-5000 Series
PROFIBUS Remote I/O Module



CNT-PROFI



CNT-PROFI



CNT-PROFI



CNT-PROFI

PROFIBUS Netwrok



Model Name	Description
PROFIBUS Converter	
I-7550	PROFIBUS to RS-232/485/422 Converter
PROFIBUS Gateway	
GW-7552	PROFIBUS/Modbus RTU Gateway
GW-7553	PROFIBUS/Modbus TCP Gateway
GW-7557	PROFIBUS/HART Gateway
PROFIBUS Remote I/O Module	
PROFI-5045	PROFIBUS 24-channel Isolated DO Module
PROFI-5050	PROFIBUS 16-channel Non-Isolated DI and 8-channel Non-Isolated DO Module
PROFI-5051	PROFIBUS 24-channel Isolated DI Module
PROFI-5052	PROFIBUS 12-channel Isolated DI Module
PROFI-5053	PROFIBUS 24-channels Dry Contact Non-Isolated DI Module
PROFI-5055	PROFIBUS 8-channel Isolated DI and 8-channel Isolated DO Module
PROFI-5060	PROFIBUS 8-channel Isolated DI and 4-channel Relay Output Module
PROFI-5017	PROFIBUS 8-channel Isolated Analog Voltage Input Module
PROFI-5017C	PROFIBUS 8 Isolated Analog Current Input Module
PROFI-5024	PROFIBUS 4 Isolated Analog Voltage & Current Output Module
PROFIBUS Remote I/O Unit	
PROFI-8155	1 Slot General Purpose PROFIBUS Slave I/O Unit
PROFI-8255	2 Slot General Purpose PROFIBUS Slave I/O Unit
PROFI-8455	4 Slot General Purpose PROFIBUS Slave I/O Unit
PROFI-8855	8 Slot General Purpose PROFIBUS Slave I/O Unit
Accessories	
CNT-PROFI	PROFIBUS Connector



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- CAN bus Remote I/O Modules
- PROFIBUS Remote I/O Modules



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