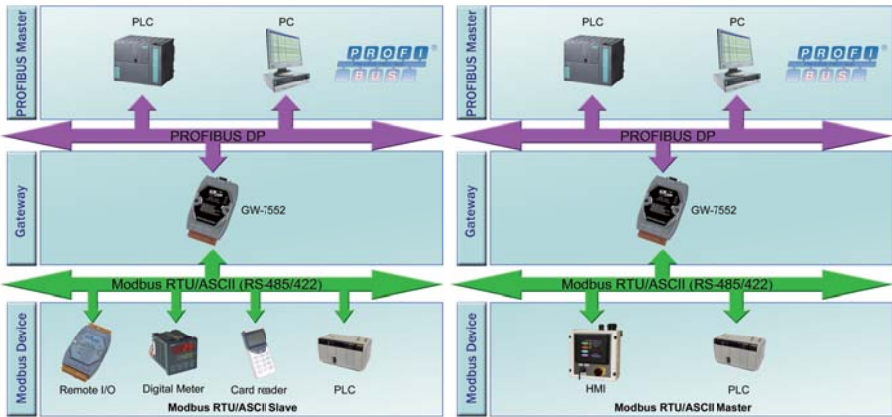


## 6.5. PROFIBUS Introduction & Products

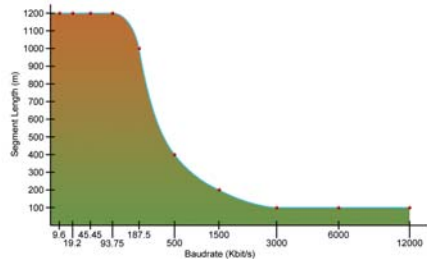
PROFIBUS (PROCESS FIELD BUS) which is anchored in the international standards IEC 61158 and IEC 61784, is an open, digital communication system with a wide range of applications, particularly in the fields of factory and process automation. It is suitable for both fast, time-critical applications and complex communication tasks. ICP DAS provides a lot PROFIBUS DP products and help the user develop PROFIBUS application system easily. We have been developing and studying PROFIBUS DP for years. ICP DAS will always secure user's industrial safety and stable automation system as our mission. These fieldbus solutions also support multi-drop networking of devices on a single twisted-pair cable providing substantial cost savings in:

- Reduced wiring
- Commissioning and installation
- Plant operations and improved quality
- Maintenance



### PROFIBUS 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



### Selection Guide

Model Name	Description	Page
PROFIBUS Converters		
I-7550	PROFIBUS/RS-232, RS-485, RS-422 Converter	6-5-2
PROFIBUS Gateways		
GW-7552	PROFIBUS/Modbus RTU Gateway	6-5-2
GW-7553	PROFIBUS/Modbus TCP Gateway	



## PROFIBUS Converters

### PROFIBUS to RS-232/422/485 Converter

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 readily choose one type of com port to use.

I-7550 CR



- Protocol & Hierarchy: DP-V0 Slave
- Detect transmission rate (9.6 to 12000 kbps) automatically
- 128 bytes max. input data length
- 128 bytes max. output data length
- Address 0 ~ 126 set by DIP switch
- Support several kinds of baud for COM1 from 1.2 to 115.2 kbps
- Network Isolation Protection: High Speed iCoupler
- 3000 V<sub>DC</sub> isolation protection on PROFIBUS side



## PROFIBUS Gateways

### PROFIBUS/Modbus RTU Gateway

GW-7552 Gateway is specially designed for the slave device of PROFIBUS DP protocol. It allows the PROFIBUS master to access the Modbus devices.

GW-7552 CR



- Protocol & Hierarchy: DP-V0 Slave
- Detect transmission rate (9.6 to 12000 kbps) automatically
- 128 bytes max. input data length
- 130 bytes max. output data length
- Support Modbus Master and Modbus Slave both mode
- Support RTU and ASCII Modbus format
- Address 0 ~ 126 set by DIP switch
- Support several kinds of baud for COM1 from 2.4 to 115.2 kbps
- Network Isolation Protection: High Speed iCoupler

### PROFIBUS/Modbus TCP Gateway

GW-7553 Gateway is specially designed for the slave device of PROFIBUS DP protocol allows the PROFIBUS master to access the Modbus TCP devices.

**NEW**  
GW-7553 CR



- Protocol & Hierarchy: DP-V0 Slave
- Detect transmission rate (9.6 to 12000 kbps) on PROFIBUS automatically
- Support one 10/100 Base-TX Ethernet port
- Support one RS-232 port (3-wire or 5-wire)
- 128 bytes max. input data length
- 131 bytes max. output data length
- Support Modbus TCP/RTU/ASCII master/slave protocol
- PROFIBUS address 0 ~ 126 set by DIP switch
- Network Isolation Protection: 2500 V<sub>DC</sub> High Speed iCoupler
- 3000 V<sub>DC</sub> isolation protection on PROFIBUS side