



Features

Protocol & Hierarchy: DP-V0 Slave

- Max transmission speed up to 12 Mbps for PROFIBUS and 115.2 kbps for COM Port
- Max I/O Data Length : 240/240 Bytes
- 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 15 HART modules

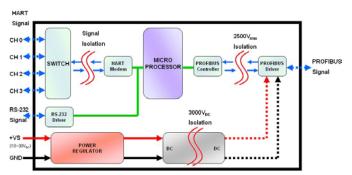




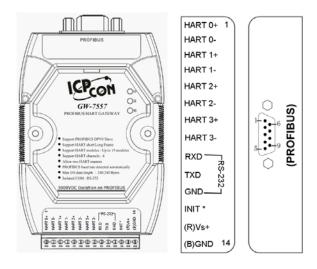
Introduction

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.

Block Diagram

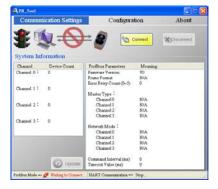


🖿 Pin Assignments

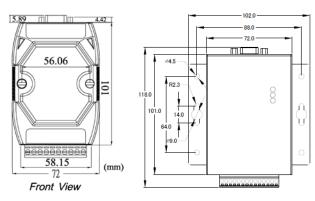


🖿 Utility

- Read/Write module configuration of the
- Provide auto-scan function for HART communication parameters
- Provide test function for HART slave devices
- Show PROFIBUS user parameters of the GW-7557



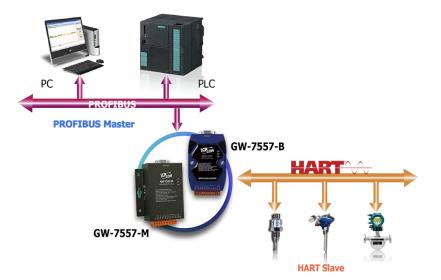
Dimensions (Units: mm)



Hardware Specifications

| Hardware | |
|---------------------------|--|
| 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 |
| HART Interface | |
| HART Interface | 8-pin screwed terminal block |
| HART Channel | 4 channels |
| UART Interface | |
| СОМ | 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 |
| LED | |
| Round LED | PWR LED, RUN LED, ERR LED |
| Power | |
| Power supply | Unregulated +10 \sim +30 V _{DC} |
| Protection | Power reverse polarity protection, Over-voltage brown-out protection |
| Power Consumption | 2.0 W |
| Mechanism | |
| Installation | DIN-Rail |
| Dimensions | 72mm x 33mm x 119mm (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-7557-B CR | PROFIBUS/HART Gateway (RoHS) |
|--------------|--|
| GW-7557-M CR | PROFIBUS/HART Gateway (RoHS) with Metal casing |