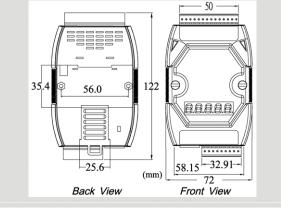
DeviceNet Slave / Modbus Master Gateway





GW-7243D

Dimensions

The GW-7243D is one of DeviceNet products in ICP DAS and it stands as a DeviceNet slave to Modbus TCP/RTU/ASCII master gateway device. It allows a master located on a DeviceNet network to enter a dialogue with slave devices on the Modbus TCP/RTU/ASCII network. In DeviceNet network, it functions as a "Group 2 Only Server" device. In Modbus network, GW-7243D represents a master device and sends request message to access the Modbus TCP/RTU/ASCII slave device by DeviceNet object definition. In order to simplify the protocol converting mechanism, we also provide the GW-7243D Utility tool to configure the device and build EDS file for the DeviceNet slave device.

Features

- Group 2 Only Server DeviceNet subscriber
- Support Explicit and Poll Connection
- User can select the Modbus RTU/ASCII protocol for each COM port
- Maximum support 10 Modbus RTU/ASCII commands for each COM port
- Maximum support 4 Modbus TCP devices
- Maximum support 5 Modbus TCP commands for each Modbus TCP device
- Support Modbus function codes: 0x01 , 0x02 , 0x03 , 0x04 , 0x05 , 0x06 , 0x0F and 0x10
- Maximum support 2048 channels DI , 2048 channels DO , 1024 channels AI and 1024 channels AO for each Modbus TCP device

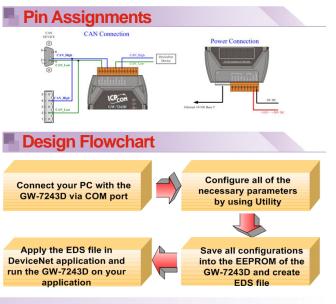
Modbus Command Support

| Function code. | Description |
|----------------|------------------------|
| 01 (0x01) | Read Coil Status |
| 02 (0x02) | Read Input Status |
| 03 (0x03) | Read Holding Registers |
| 04 (0x04) | Read input Registers |
| 05 (0x05) | Force Single Coils |
| 06 (0x06) | Preset Single Register |
| 15 (0x0F) | Force Multi Coils |
| 16 (0x10) | Preset Multi Registers |

Utility Features



- Support module IP/Gateway/Mask setting.
- Support Modbus TCP/RTU/ASCII protocol communication parameters setting.
- Support DeviceNet Polling I/O path setting.
- Dynamic produce EDS file after setting.



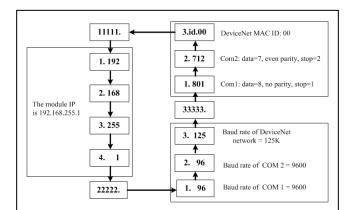


Hardware Specifications

| Hardware | | |
|--------------------|--|--|
| CPU | 80186, 80 MHz or compatible | |
| Watchdog | Watchdog IC | |
| CAN Interface | | |
| Controller | NXP SJA1000T with 16 MHz clock | |
| Transceiver | NXP 82C250 | |
| Connector | 5-pin screwed terminal block (CAN_L, CAN_H, N/A for others) | |
| Isolation | 1000 V _{DC} for DC-to-DC, 2500 Vrms for photo-couple | |
| Protocol | DeviceNet Volumn I ver2.0, Volumn II ver2.0 | |
| UART Interface | | |
| COM 1 | RS-232 | |
| COM 1 Connector | 5-pin screwed terminal block (TxD, RxD, RTS, CTS, GND) | |
| COM 2 | RS-485 (Self-turner inside) | |
| COM 2 Connector | 2-pin screwed terminal block (DATA+, DATA-) | |
| Protocol | Modbus ASCII / Modbus RTU | |
| Ethernet Interface | | |
| Controller | 10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX) | |
| Connector | RJ-45 with LED indicator | |
| Protocol | Modbus TCP | |
| Power | | |
| Power supply | Unregulated $+10 \sim +30 \text{ V}_{\text{DC}}$ | |
| Protection | Power reverse polarity protection, Over-voltage brown-out protection | |
| Power Consumption | 2.5 W | |
| Mechanism | | |
| Dimensions | 72mm x 122mm x 33mm (W x L x H) | |
| Environment | | |
| Operating Temp. | -25 ~ 75 °C | |
| Storage Temp. | -30 ~ 80 °C | |
| Humidity | 10 ~ 90% RH, non-condensing | |
| | | |

Application





5-digit 7-segment Display

Ordering Information

| GW-7243D-G | DeviceNet Slave / Modbus Master Gateway |
|---------------|--|
| GW-7243D-G CR | DeviceNet Slave / Modbus Master Gateway (RoHS) |