

GT200-PN-3RS
Universal Serial/PROFINET IO Gateway



Product Overview

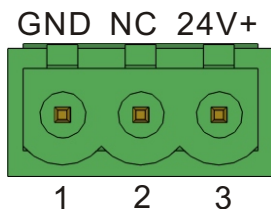
GT200-PN-3RS is a gateway which can provide a seamless connection between PROFINET network and Modbus. It can connect 3 devices with RS-232 or devices with RS-485 interface to PROFINET network.

Technical specifications

- [1] At PROFINET side GT200-PN-3RS is PROFINET slave and acts as Modbus master or Modbus slave at serial side;
- [2] Supports standard PROFINET I/O protocol;
- [3] PROFINET: supports up to 32 slots, input/output data buffer is up to 1024 bytes (the length users can use is limited to specific PLC and PDU size of communication module), the length of input/output bytes can be set by STEP7;
- [4] Each serial port can support up to 100 Modbus commands;
- [5] With 3 serial ports, supports RS-232 or RS-485 electrical interface, serial III can only support RS-422;
- [6] The protocol type serial ports support: Modbus master, Modbus slave, simple-defined protocol;
- [7] Serial port parameters: half-duplex, baud rate: 300, 600, 1200, 2400, 9600, 38400, 57600 and 115200 bps optional, data bits: 8, parity: None, Odd, Even, Mark and space optional, stop bits: 1, 2 optional;
- [8] Power supply: 24VDC (11V ~ 30V);
- [8] Working temperature: -4°F~140°F(-20°C~60°C), relative humidity: 5% ~ 95% (non-condensing);
- [9] External Dimensions (W*H*D): 1.57 in*4.92 in*4.33 in (40mm*125mm*110mm);
- [10] Protection level: Ip20.

Power interface

Power interface is shown as below:

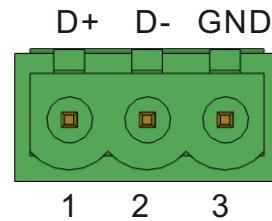


| Pin | Function |
|-----|--------------------|
| 1 | GND |
| 2 | NC (Not Connected) |
| 3 | 24V+, DC |

Features

- Independent RS-485 interfaces or RS-232 interfaces with 1KV optical isolation;
- Wide application: Any devices with RS-232/RS-485/RS-422 can use this gateway to realize data exchanging;
- Dual Ethernet 10/100M self-adaptive with built-in switch;
- Provide easy to use configuration software SST-TS-CFG;

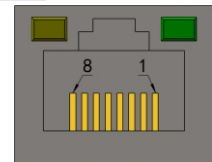
RS-485 interface



| Pin | Function |
|-----|--|
| 1 | D+/TXD, RS-485 Data Positive/RS-232 data sending, Connect RXD of user device |
| 2 | D-/RXD, RS-485 Data Negative/RS-232 data receiving, Connect TXD of user device |
| 3 | GND |

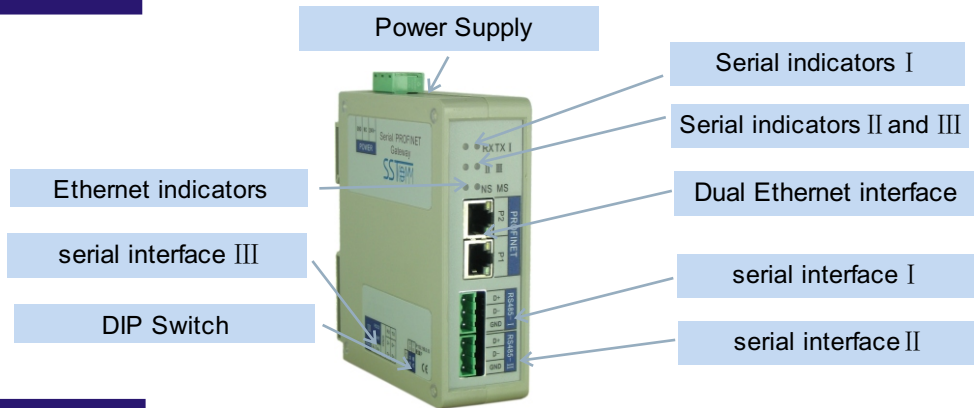
Ethernet interface

Ethernet interface uses RJ-45 connector; its pin (standard Ethernet signal) is defined as below:



| Pin | Description |
|-----|-------------------------------|
| S1 | TXD+, Tranceive Data+, Output |
| S2 | TXD-, Tranceive Data-, Output |
| S3 | RXD+, Receive Data+, Input |
| S4 | Bi-Directional Data+ |
| S5 | Bi-Directional Data- |
| S6 | RXD-, Receive Data-, Input |
| S7 | Bi-Directional Data+ |
| S8 | Bi-Directional Data- |

Appearance



Indicators

| Indicators | State | Description |
|-------------|--------------------|---------------------------------------|
| Serial I TX | Green Blinking | Serial port data sending |
| | OFF | No data is sending |
| Serial I RX | Green Blinking | Serial port data receiving |
| | OFF | No data is receiving |
| Serial II | Green Blinking/OFF | Serial port data/No data is receiving |
| | Red Blinking/OFF | Serial port data/No data is sending |
| Serial III | Green Blinking/OFF | Serial port data/No data is receiving |
| | Red Blinking/OFF | Serial port data/No data is sending |
| MS | See below table | |
| NS | See below table | |

| Module indicator state MS | Network indicator state NS | Description |
|---------------------------|----------------------------|---|
| OFF | Red blinking | Start-up state, waiting to initialize |
| Green on | Red blinking | Initialize complete, no connection with PLC |
| Green on | Green on | PLC has connected |
| Other | Other | Undefined state |

Configuration switch

The DIP switch is located at the bottom of the gateway, bit 1 is mode bit and bit 2 is function bit. Generally, users just set them to off when using, it is just used for firmware update.

