

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

### Product Overview

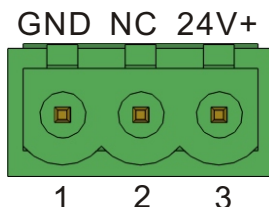
GT200-PN-3RS is a gateway which can provide a seamless connection between PROFINET network and Modbus. It can connect 3 devices with RS-232 or devices with RS-485 interface to PROFINET network.

### 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:

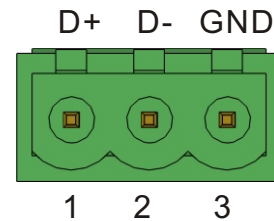


Pin	Function
1	GND
2	NC (Not Connected)
3	24V+, DC

### 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;

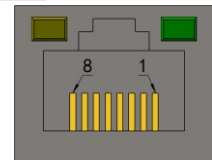
### RS-485 interface



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

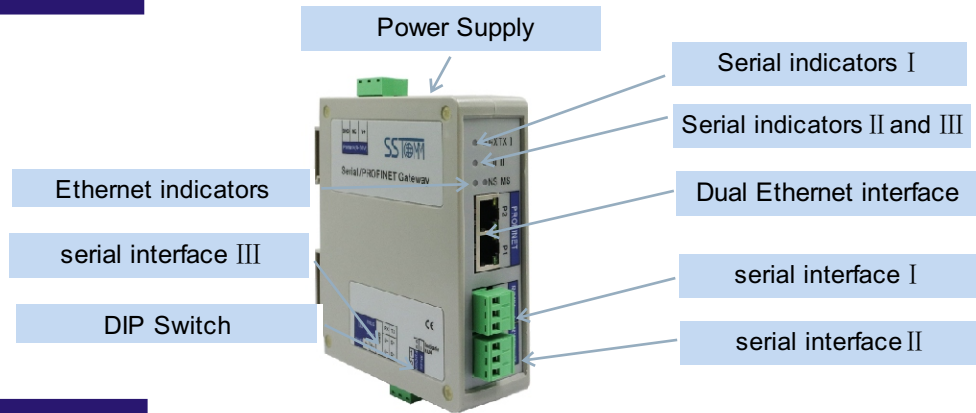
### Ethernet interface

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.

