SST Automation
Industrial Communication

GT200-PN-RS
Universal Serial/PROFINET IO Gateway

Product Overview

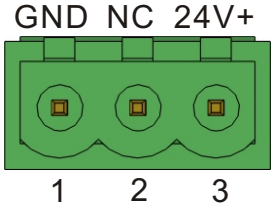
GT200-PN-RS is a gateway which can provide a seamless connection between PROFINET network and Modbus. It can connect device with RS-232 and devices with RS-485 interface to PROFINET network.

Technical specifications

[1] At PROFINET side GT200-PN-RS 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 384 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 2 serial ports, serial I support RS-232,serial II support RS-485, It can connect up to 1 device when using RS-232 and 3 when using RS-485 ports and can connect up to 4 device when using RS-485 independently.
[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, 2400,4800, 9600, 38400, 57600 and 115200 bps optional, data bits:7, 8, parity: None, Odd, Even, Mark and space optional, stop bits: 1, 2 optional;
[8] Power supply: 24VDC (11V ~ 30V);
[8] Working temperature: -4℉~140℉(-20℃~60℃), relative humidity: 5% ~ 95% (non-condensing);
[9] External Dimensions (W*H*D): 1.57 in*4.92 in*4.33 in (40mm*125mm*110mm);

Power interface

Power interface is shown as below:

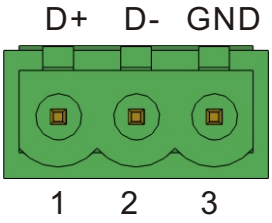


Pin	Function
1	GND
2	NC (Not Connected)
3	24V+, DC

Features

- Independent RS-485 interfaces or RS-232 interfaces with 1KV optical isolation;
- Wide application: Any devices with RS-232/RS-485 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;

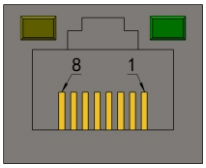
RS-485 interface



Pin	Function
1	D+, RS-485 Data Positive, connect Data Positive of user device
2	D-, RS-485 Data Negative, connect Data Negative of user device
3	GND

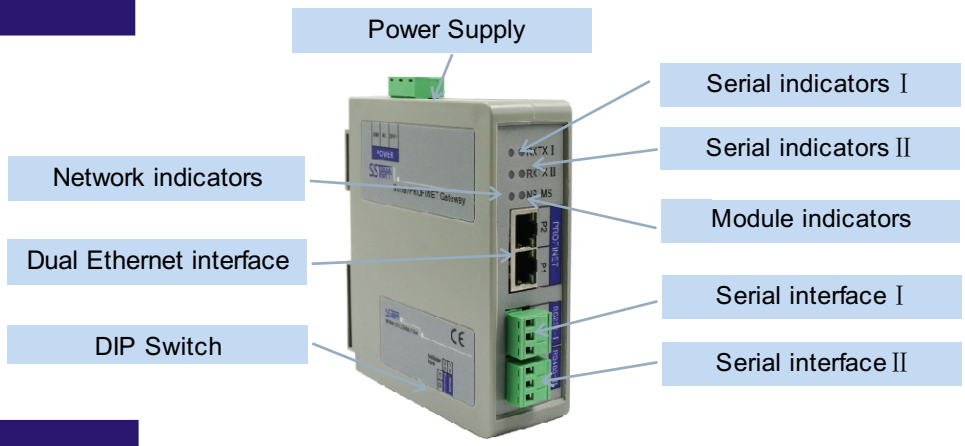
Ethernet interface

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



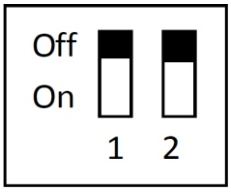
Indicators

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 TX	Green Blinking	Serial port data sending
	OFF	No data is sending
Serial Ⅱ RX	Green Blinking	Serial port data receiving
	OFF	No data is receiving
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.



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