

GT200-EI-2RS485 Modbus/EtherNet/IP Gateway

Product Overview

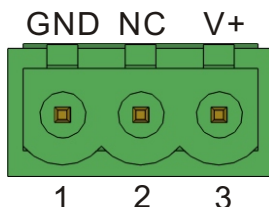
GT200-EI-2RS485 is a gateway which can realize the mutual conversion between Modbus protocol and EtherNet/IP protocol. It can connect Modbus devices to EtherNet/IP network. Modbus side supports 2 RS-485.

Technical specifications

- [1] EtherNet/IP network is independent with Modbus network;
- [2] Ethernet 10/100M self-adaptive;
- [3] Supports IP address conflict detection;
- [4] Support ODVA standard EtherNet/IP communication protocol;
- [5] Two serial RS-485 interfaces, half-duplex, and baud rate support: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200; parity: none, odd, even, mark, space; 1 or 2 stop bits;
- [6] Acts as Modbus master, it supports 01H, 02H, 03H, 04H, 05H, 06H, 0FH and 10H function codes. It can be configured up to 48 Modbus commands for each RS-485 interface; Modbus function codes 03H, 04H, 06H and 10H support "Byte Swap" function, and it can help users solve the problem of data format between two different networks;
- [7] Two independent RS-485 interfaces with 1KV optical isolation;
- [8] Max input and output bytes of EtherNet/IP: 492 bytes;
- [9] Power supply: 24VDC (11V ~ 30V), 90mA (24VDC);
- [10] Working temperature: -4°F ~ 140°F (-20°C ~ 60°C), relative humidity: 5% ~ 95% (non-condensing);
- [11] External Dimensions (W*H*D): 1.57 in*4.92 in*4.33 in (40mm*125mm*110mm);
- [12] Installation: 35mm DIN rail;

Power interface

Power interface is shown as below:



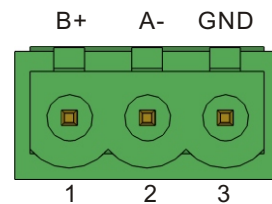
Pin	Function
1	GND
2	NC (Not Connected)
3	24V+, DC



Features

- Redundant power supply;
- Ethernet 10/100M self-adaptive;
- IP address conflict detection;
- Modbus network communication debug function;
- Easy-to-use configuration software SST-GT-CFG.

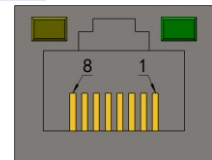
RS-485 interface



Pin	Function
1	B+, RS485
2	A-, RS485
3	GND

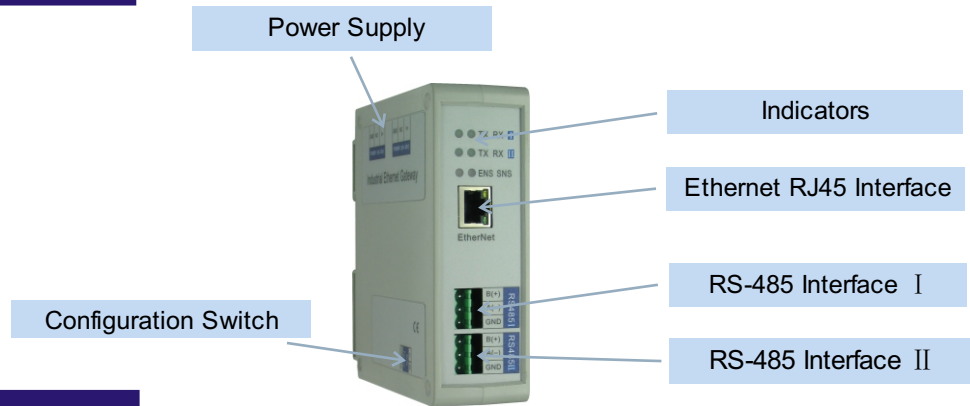
Ethernet interface

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

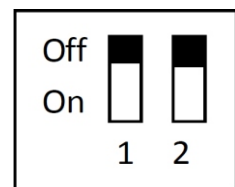


Indicators

Indicator	Status	Description
ENS	Always green	EtherNet/IP connection is established
	Green flashing	EtherNet/IP connection is not established
	Always red	IP address conflict
	Red flashing	EtherNet/IP connection timed out; DHCP, BOOTP, IP address conflict detection
SNS	Always green	Modbus Communication is normal
	Always red	At least one Modbus network response timeout, exception or error
	Alternately flashing red and green light	At least part of one Modbus network timeout, exception or error
ENS orange light and SNS orange light (orange light: Red and green light on at one time)	Light at one time	Start up status
	Flash alternately	Configuration mode

Configuration switch

The configuration switch is located at the bottom of the gateway, bit 1 is mode bit and bit 2 is function bit.



Mode bit (bit 1)	Function bit (bit 2)	Description
Off	Off	run mode, allowing read and write configuration data
Off	On	run mode, read and write configuration data
On	Off or On	Configuration mode, IP address is fixed at 192.168.0.10, this mode can only read and write configuration data, cannot communication between EtherNet/IP and Modbus network

Notes:

Restart GT200-EI-2RS485 (power off and power on) after resetting the configuration to make the configuration take effect!