SST Automation
Industrial Communication

GT200-MT-EI
Modbus TCP/Ethernet IP Gateway

Product Overview

GT200-MT-EI is a gateway which can realize the interconnection of different industrial Ethernet devices. The gateway supports Modbus TCP master/slave and EtheNet/IP slave. It can finish the data exchange between Modbus TCP network and EtherNet/IP network. Also, it supports the interconnection between Schneider PLC and AB PLC and connecting the Modbus TCP slave devices to

Features

- Modbus TCP master or slave optional;
- EtherNet IP slave;
- Redundant power;
- Support network status monitor function;
- Support I/O data monitor function;
- Provide easy-to-use configuration software SST-EE-CFG.

Technical specifications

[1] One Ethernet interface, Modbus TCP and EtherNet/IP shares this interface together;

[2] Ethernet 10/100M self-adaptive;

[3] IP address conflict detection;

[4] Support static IP and DHCP function;

[5] Act as a slave at the EtherNet/IP side, support ODVA standard EtherNet/IP communication protocol;

[6] Read&write of I/O data of EtherNet/IP supports two ways:

a)Direct establish I/O connection to read/write I/O data;

b)Use MSG command to read/write I/O data;

[7] As Modbus TCP master, support visiting at most 36 different IP or Modbus TCP slave of different unit ID, support function code 01H, 02H,03H, 04H, 05H, 06H, 0FH, 10H;

[8] Act as slave at the Modbus TCP side, support 36 TCP connection, support function code 03H, 04H, 06H, 10H;

[9] Max input bytes:492 bytes, max output bytes:492 bytes;

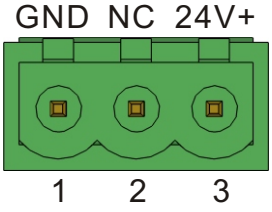
[10] Provide byte swap function: No swap, double-byte swap, four-byte swap;

[11] Working temperature: -4℉~140℉(-20℃~60℃), relative humidity: 5% ~ 95% (non-condensing); [12] External Dimensions (W*H*D): 1.57 in*4.92 in*4.33 in (40mm*125mm*110mm);

[13] Installation: 35mm rail; [14] Protection class: Ip20;

Power interface

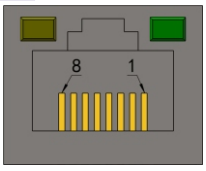
GT200-MT-EI has two power interfaces and power redundant function. When one power fails, another power can keep supplying power.



Pin	Function
1	GND
2	NC, not connected
3	24V+ , DC 24V

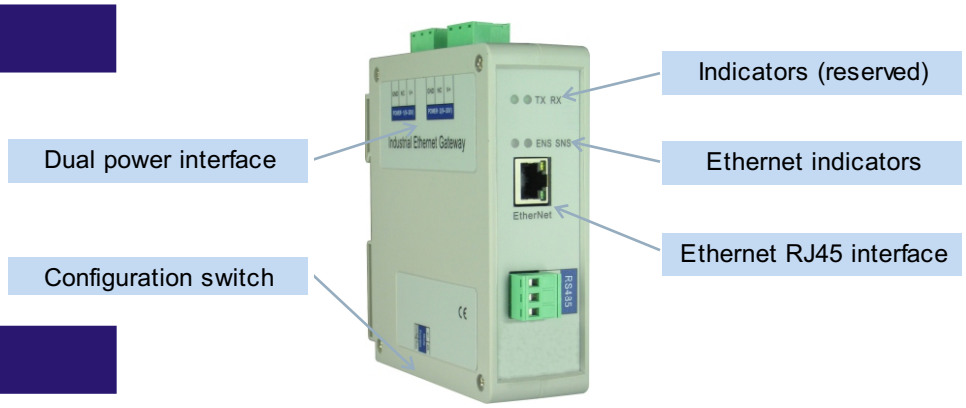
Ethernet interface

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



Pin	Signal 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	Status	Descriptions
ENS （EtherNet/IP network status indicators ）	Green on	EtherNet/IP connection is established
	Blinking(Green)	EtherNet/IP connection is not established
	Red on	Indicates conflict with IP address
	Blinking(Red)	EtherNet/IP connection is off or DHCP state
SNS （Modbus TCP network status indicators）	Green on	At least one Modbus TCP connection has been established;
	Blinking(Green)	Modbus TCP no connection
	Blinking(Red)	Modbus TCP connection is off and no longer exists
	Blinking(Red) （lasts 3 seconds）	Modbus TCP connection is off
ENS (Orange) and SNS (Orange), （Orange: Red and green light on at the same time）	Simultaneously on	Start-up state
	Blink alternately	Configuration 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.

Mode (bit 1)	Function (bit 2)	Description
Off	Off	Run mode, allow reading and writing configuration data
Off	On	Run mode, forbid reading and writing configuration data
On	Off	Configuration mode, IP address is 192.168.0.10 (fixed), this mode can read and write configuration data but cannot finish communication between EtherNet IP and Modbus TCP
On	On	Reserved

Notes:

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

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