

## GT200-MT-RS Modbus/Modbus TCP Gateway

### Product Overview

Modbus Serial/TCP series gateway can achieve the interconnection between Ethernet (Modbus TCP protocol) devices and serial (Modbus RTU/ASCII) devices. The Modbus Serial/TCP series gateway supports dual Ethernet ports, built-in switch; the serial side supports single/dual/four serial port. Each port supports both RS485 and Rs232.

### Technical specifications

[1] Slave mode: Support 4 Modbus TCP master communication simultaneously, and can support 32 command request simultaneously;

[2] Master mode: Support visiting 4 different Ips or Modbus TCP slaves of different ports;

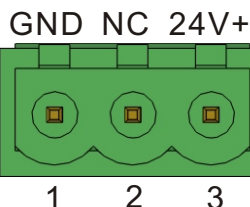
[3] Every serial interface is all RS485 or RS232, half-duplex, and baud rate support: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 and 230400bps optional; parity: none, odd and even optional; 1 or 2 stop bits;

[4] Power supply: 24VDC (11V ~ 30V), 130mA (24VDC);

[5] Working temperature: -4°F~140°F(-20°C~60°C), relative humidity: 5% ~ 95% (non-condensing);

### Power interface

Power interface is shown as below:



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



### Features

- Operating mode:
  - Modbus RTU/ASCII slave mode: Modbus TCP masters communicate with Modbus RTU/ASCII slaves through the gateway;
  - Modbus RTU/ASCII master mode: Modbus RTU/ASCII masters communicate with Modbus TCP slaves through the gateway.
- Dual Ethernet interface, built-in switch, support cascade, can be used in a ring network, save field connection cables and switches;
- Ethernet 10/100M self-adaptive;
- Debugging function;
- Provide easy to use configuration software SST-

[6] External Dimensions (W\*H\*D): 1.57 in\*4.92 in\*4.33 in (40mm\*125mm\*110mm);

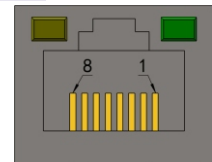
[7] Installation: 35mm DIN rail;

[8] Protection class: IP20;

[9] Test standard: EMC test standards.

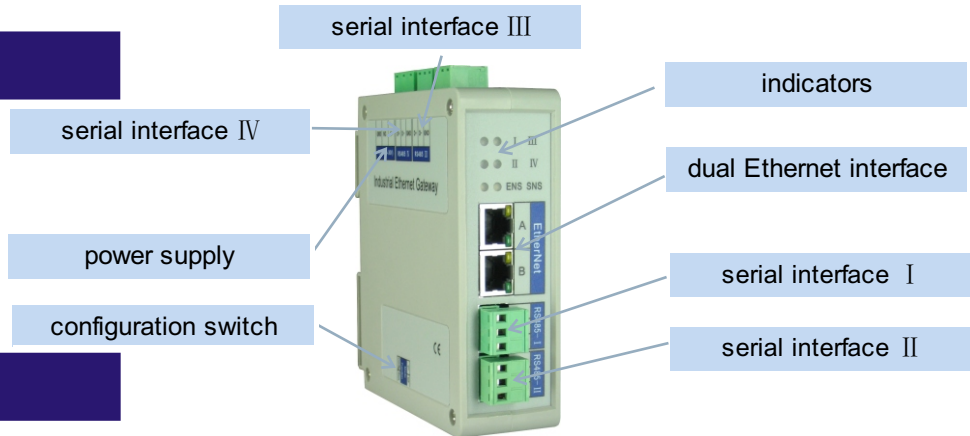
### Ethernet interface

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
I	Blinking (Green)	Serial port I is receiving data
	Blinking (Yellow)	Serial port I is transmitting data
II	Blinking (Green)	Serial port II is receiving data
	Blinking (Yellow)	Serial port II is transmitting data
III	Blinking (Green)	Serial port III is receiving data
	Blinking (Yellow)	Serial port III is transmitting data
IV	Blinking (Green)	Serial port IV is receiving data
	Blinking (Yellow)	Serial port IV is transmitting data
ENS	Green on	Slave mode: At least one Modbus TCP connection has been established; Master mode: Modbus TCP connection has been established
	Blinking (Green)	Slave mode: Modbus TCP no connection; Master mode: Modbus TCP connection has not been established
	Blinking (Red)	Modbus TCP connection is disconnected and no longer exists; Obtain IP config via DHCP
	Blinking (Red) (lasts 3 seconds)	Modbus TCP connection is disconnected
SNS	Green on	Serial port ready to transmit and receive data
	Blinking (Red)	Automatic routing conflict
	Red on	Equipment failure or firmware update failed
ENS (Orange) and SNS (Orange) (Orange: Red and green light on at the same time)	Simultaneously on	Start status
	Blink alternately	Configuration Mode
	Blink alternately (lasts 3 seconds)	Using locate function
	ENS on, SNS off	Firmware update mode

**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, allowing reading and writing of configuration data
Off	On	Run mode, forbidding reading and writing of configuration data (configuration data protection switch)
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 Modbus TCP and Modbus RTU devices
On	On	Firmware update mode, IP address is 192.168.0.10, this mode can only update firmware

**Notes:**

Restart Modbus Serial/TCP series gateway (power off and power on) after resetting the configuration to make the configuration take effect!