GT100-EI-RS

Modbus/EtherNet/IP Adapter

Product Overview

GT100-EI-RS is an adapter which can realize the mutual conversion between Modbus protocol and EtherNet/IP protocol. It can connect Modbus (other serial protocol) devices to EtherNet/IP network. Modbus side supports RS-422/RS-485,and also supports RS-232.
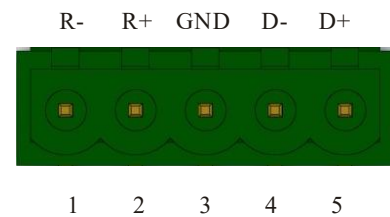
Technical Specifications

[1] Independent between EtherNet/IP network and Modbus network.

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

[3] IP address conflict detection.

[4] Supports ODVA standard EtherNet/IP communication protocol.

[5] Supports RS485 or RS232 on serial interface, half duplex, baud rate: 1200,2400, 4800, 9600, 19200,38400, 57600, 115200 bps optional, check bit: None, odd, even, mark and space optional; 1 or 2 bit stop bit optional.

[6] Act as Modbus Master at Modbus side:
- Supports function code 01H, 02H, 03H, 04H, 05H, 06H, 0FH, 10H
- Supports at most 48 Modbus commands, Modbus function 03H, 04H, 06H, 10H support byte exchange function, convenient for resolving the format problem of big-endian and small endian between two network data.

[7] Under universal mode, support frame timeout, frame length and delimiter control mode, automatic sending function.

[8] 1KV galvanic isolated on one RS485 and RS232 interfaces.

[9] EtherNet/IP maximum input/output bytes:
- Maximum input bytes: 492 bytes (Under universal mode, maximum input bytes is 256 bytes)
- Maximum output bytes: 492 bytes (Under universal mode, maximum output bytes is 256 bytes)

[10]   Power supply: 24VDC (11V-30V), 90mA (24VDC).

[11]   Operating Temp.: -40°F to 140°F (-40°C to 60°C); Rel. Humidity: 5%-95% (non-condensing).

[12]   Dimension (W*H*D): 0.98in*3.94in*3.54in (25mm*100mm*90mm).

[13]   Mounting: DIN Rail Mounting (35mm).
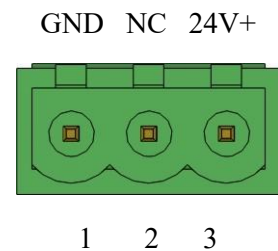
Features

- One RS-422/RS-485 or RS-232 interface with independent 1KV photo electric isolation;
- Ethernet 10/100M self-adaptive;
- IP address conflict detection;
- Modbus network communication debug function;
- Provide easy-to-use configuration software SST-MI-CFG.

RS485/RS422 Interface

R-   R+   GND   D-   D+

1   2   3   4   5

Pin	Function
1	R-, RS-422 Receive Negative
2	R+, RS-422 Receive Positive
3	GND
4	D-, RS-485/RS-422 Transmit Negative
5	D+, RS-485/RS-422Transmit Positive

Power Interface

GND   NC   24V+

1   2   3

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

SST⊕MM

Appearance

Button

Power Supply

Serial Indicators

Ethernet Indicators

Serial Interface

Ethernet RJ45 Interface

Indicators

Indicator	State	State description
TX	Red Blinking	RS-232/485/422 port is sending data
	OFF	RS-232/485/422 port isn't sending data
RX	Green Blinking	RS-232/485/422 port is receiving data
	OFF	RS-232/485/422 port isn't receiving data
ENS	Red off	IP address launch is normal
	Red blinking	DHCP
SNS	Green on	Ethernet/IP connection is established, communication is normal
	Green blinking	EtherNet/IP connection is not established

Button

The button is located at the top of the adapter.

Action	Descriptions
Press button down for at least 3 seconds	Reset to default settings - 192.168.0.11

Notes: The reset action will clear the configuration, please download the configuration firstly before using.