GT200-DPM-EI
## PROFIBUS DP / EtherNet/IP Gateway

Product Overview

GT200-DPM-EI is a gateway which can realize the data communication between EtherNet/IP and PROFIBUS-DP.It can connect devices with PROFIBUS-DP slave interface to EtherNet/IP network.k. It acts as a PROFIBUS DP master at the side of PROFIBUS DP and a EtherNet/IP slave at the side of EtherNet/IP.

Technical Specifications

[1]PROFIBUS DP/V0 communication capability, in accordance with EN50170;
[2]2.5KV photoelectric isolation on PROFIBUS DP interface and EtherNet/IP interface;
[3]Support ODVA standard EtherNet/IP communication protocol;
[4]PROFIBUS DP up to 1K byte input and 1K byte output;
[5]Max input and output bytes of EtherNet/IP: 1K bytes;
[6]Double Ethernet port, 10/100M self-adaptive;
[7]Multiple LED status lights are instructed to facilitate on-site debugging.
[8]Power voltage is DC9~30V, consumption: <4W;
[9]Temperature: operating -4℉~140℉（-20℃～60℃）; Humidity: 5 to 95% (No Condensing);
[10]External dimensions (W*H*D): 1.34in*4.57in *4.23in (34mm*116mm*107.4mm);
[11]Installation: 35mm rail;
[12]Protection Level: IP20;

Power interface

Power interface is shown as below:
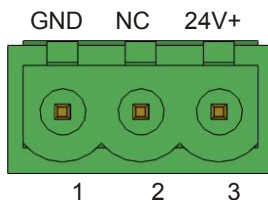
Pin	Function
1	Power GND
2	NC(Not Connected)
3	24V+, DC Positive 24V

Features

- Wide application: establish stable connection between PROFIBUS DP network and EtherNet/IP network;
- Easy to use: no need to know the detailed technology of PROFIBUS DP and EtherNet/IP, users just refer to this manual and application examples, finish network configuration and make it work in short time;
- Transparent Communication: users can refer to the mapping relations between PROFIBUS communication data area and EtherNet/IP data area, then establish transparent transmission between them.
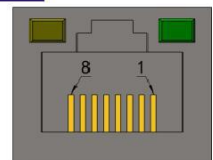
PROFIBUS DP interface

PROFIBUS DP interface uses DB9 connector, and the pins are defined as follows:

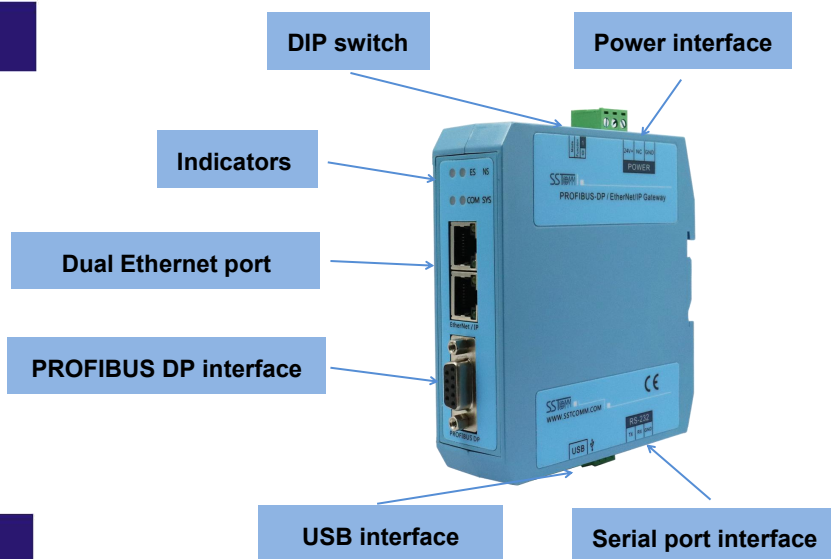| Pin	Function
3	PROFI_B, Data positive
5	GND (optional)
8	PROFI_A, Data negative

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

DIP switch

Power interface

Indicators

Dual Ethernet port

PROFIBUS DP interface

USB interface

Serial port interface

Indicators

Indicator state	Description
COM Always Green	GT200-DPM-EI gets DP master token and sends DP packet, communication is normal
COM Green blinking irregularly	GT200-DPM-EI and the other DP master on the network share a token
COM Always Red	At least one DP slave and GT200-DPM-EI communication abnormal or network short-circuit
COM Off	GT200-DPM-EI with no DP configuration or had not got token from the DP network
SYS Red light flashes in 1Hz	GT200-DPM-EI is in the bootloader process
SYS Red light flashes in 5Hz	Detected hardware problems
SYS Red blinking irregularly	GT200-DPM-EI DP master card is updating firmware
SYS Always Green	DP communication is normal, GT200 -DPM-EI established connection with at least one DP slave
SYS Green blinking with 5Hz	DP configuration is properly configured, the communication stops or not connected to the master
SYS Green Blinking irregularly	Lost configuration or error after power-on
SYS Off	GT200-DPM-EI has no power-off or hardware problem

Configuration switch

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

Off
On
1 2

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