

GT100-PN-DM DeviceNet/PROFINET IO Gateway

Product Overview

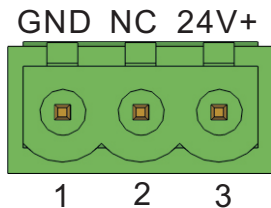
SSTCOMM DeviceNet to PROFINET series gateway can connect slave devices with DeviceNet interface to PROFINET network. It acts as a master at the side of DeviceNet network, and a slave at the side of PROFINET network. GT100-PN-DM supports connecting a single DeviceNet slave to PROFINET network, and GT200-PN-DM supports connecting multiple DeviceNet slave to PROFINET network.

Technical Specifications

- [1] Support Two modes: Pre-operation and Operation;
- [2] Support standard RROFINET I/O protocol.
- [3] PROFINET supports up to 32 slots, The maximum number of input bytes is 384 and the maximum number of output bytes is 384. The length available to the user is limited by the specific PLC and PDU size of the communication module)The length of input and output data blocks set in PROFINET master should be the same as that configured in SST-TD-CFG.
- [4] Can act as DeviceNet master.
- [5] Modbus TCP server supports DHCP.
- [6] Power supply: 24VDC (11V-30V).
- [7] Operating Temp. : -4°F to 140°F (-20°C to 60°C), Rel. Humidity: 5%-95%, non-condensing.
- [8] Dimension (W*H*D): 25mm*100mm*90mm (0.98in*3.93in*3.54in).

Power interface

Power interface is shown as below:



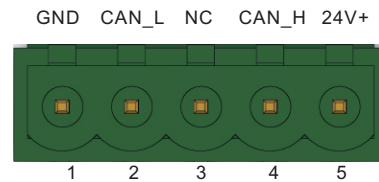
Pin	Function
1	GND
2	NC (Not Connected)
3	24V+, DC

Features

- Wide application: Support connecting DeviceNet devices to PROFINET networks. For example, Such as Robot with DeviceNet interface, inverter, motor startup protection devices, intelligent field measuring equipment and PLC etc. PROFINET end connects with PLC like Siemens S7-300/400/1200/1500.
- Easy configuration: Users don't need to know the technical details of PROFINET and DeviceNet, only refer to user manual and the application cases provided, the network can be connected in a short time.
- Transparent communication: According to the mapping relationship between PROFINET and DeviceNet communication data area, users can realize data transparent communication between DeviceNet network and PROFINET network.

CAN interface

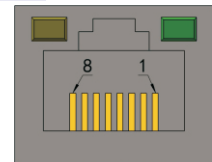
CAN side is the open five-pin connector, as shown below:



Pin	Wiring
Pin 1	GND(24V-)
Pin 2	CAN-
Pin 3	NC
Pin 4	CAN+
Pin 5	24V+

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

PROFINET Side Indicators

MS	NS	Description
Always Red	Off	Module is running and initialization has not yet completed
Always Green	Red blinking	Initialization completed, no connection with PLC; Or in the normal communication with PLC, the network line is pulled out or dropped off.
Always Green	Always Red	No plug-in network cable
Always Green	Always Green	Connect with PLC and communicate normally

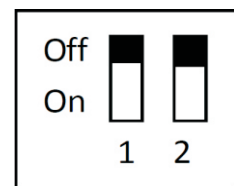
DeviceNet Side Indicators

Operation mode:

MS	NS	Description
Always Green	Off	Module is running and initialization has not yet been completed
Always Green	Green blinking	Initialization completed, The master is online, but no connection has been established with the slave
Always Green	Always Green	Connection has been established with slave
Always Green	Red blinking	The slave is disconnected from the master
Always Green	Always Red	There is no slave on CAN network, Address Duplication Detection Conflict, CAN Network error

DIP Switch

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



Mode(bit 1)	Function(bit 2)	Description
Off	Off	Operation mode(Support SST-TD-CFG configuration)
Off	On	Pre-operation mode(Support SST-TD-CFG configuration)
On	Off	NA
On	On	NA

Notes:

Restart GT100-PN-DM (power off and power on) after resetting the configuration to make the configuration take effect!