GT200-DP-CO
CANopen/PROFIBUS DP Gateway

Product Overview

GT200-DP-CO is a gateway that provides a seamless connection between CANopen and PROFIBUS DP, and establishes communication between them. It acts as a slave at PROFIBUS DP side and master/slave device at CANopen side.

Technical Specifications

[1] Communication baud rate:
   CANopen baud rate: 50kbps, 100kbps, 125kbps, 250kbps, 500kbps and 1Mbps;
   PROFIBUS DP baud rate is self-adaptive and can be up to 12Mbps;
[2] CAN: ISO 11898-compatible CAN interface is CAN2.0A type with an 11-bit identification;
[3] DS-301 V4.01 and CiA Draft Recommendation 303 compliant;
[4] CANopen master: supports maximum 8 bytes TPDO and 8 bytes RPDO, fast Download SDO and fast Upload SDO; Each CANopen node has 4 default TPDO and 4 default RPDO;
[5] CANopen slave: supports maximum 8 bytes TPDO and RPDO, 4 bytes fast Download SDO and fast Upload SDO; It has up to 42 TPDO and 42 RPDO;
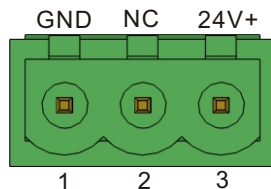[6] Each CANopen node can has self-defined COBID or use default COBID;
[7] Power: 24VDC (11V~30V), maximum 90mA (24V);
[8] Operating temperature: -4 ° F to 140 ° F(-20℃~60℃);

Power interface

Power interface is shown as below:

GND   NC   24V+

1   2   3

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

Features

- Supports one CANopen master interface; CANopen interface: 1KV photoelectric isolation;
- Easy to configure, configure just through USB port on PC;
- PROFIBUS input and output bytes can be selected, the maximum number is:

   Max input bytes≤112 bytes;
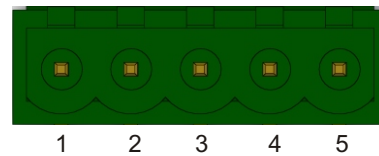
   Max output bytes≤112 bytes;

[9] External dimensions (W*H*D): 0.98 in*3.94 in*3.54 in (25mm*100mm*90mm);
[10] Installation: 35mm DIN RAIL.

CAN interface

CAN interface of GT200-DP-CO uses 5-pin connector:

GND CAN-L NC CAN-H 24V+

1   2   3   4   5

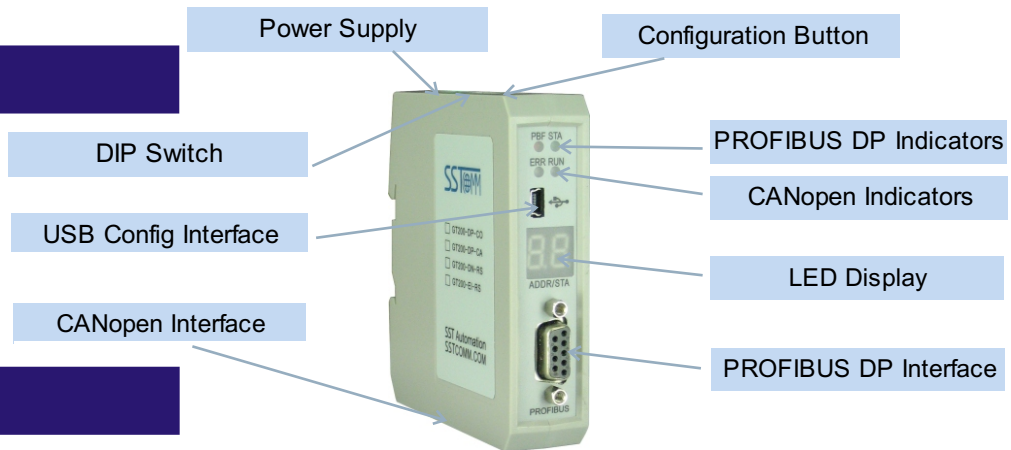Note: Voltage between 24V+ and GND is 24V, power range is 11~30V;

PROFIBUS DP interface

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

PROFI_A(Pin 8)   GND(Pin 5)
                  PROFI_B(Pin 3)

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

Appearance

Power Supply

Configuration Button

DIP Switch

USB Config Interface

CANopen Interface

PROFIBUS DP Indicators

CANopen Indicators

LED Display

PROFIBUS DP Interface

Indicators

Indicators		Status	Description
PROFIBUS Status	PBF (red)	On	PROFIBUS DP connection has not been established
		Off	PROFIBUS DP connection has been established
	STA (green)	Blinking	Exchanging data
		Off	PROFIBUS DP status is abnormal
CANopen Status	ERR(bicolor)	Green on	The CAN network is normal
		Red on	Bus Off
		Red, Green and Off alter alternately	The error counter of CAN controller reach or exceed alarm value
	RUN(bicolor)	Green on	Node is in the run state
		Green light on every 200ms, off every 1000ms	Node is in the stop state
		Green light on every 200ms, off every 200ms	Node is in the pre-run state

DIP Switch

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

Off
On
1 2
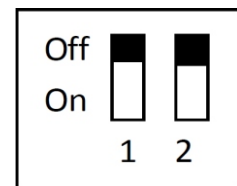
Function (Bit 1)	Mode (Bit 2)	Description
Off	Off	Run Mode, allow setting DP address
Off	On	Configuration Mode
On	Off	Run mode with debug function, not allow setting DP address
On	On	Run Mode, prohibit setting DP address

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