

## GT100-CA-MS485 Modbus/CAN Gateway

### Product Overview

The gateway GT100-CA-MS485 can connect multiple devices with Modbus master interface to CAN networks, and establish the communication between them. Modbus/RS-485 network devices can be converted to CAN network devices.

### Technical Specifications

[1] Modbus side:

One Modbus slave interface, support 03, 04, 16 function codes;

Serial port baud rate: 300, 600, 1200, 2400, 9600, 19200, 38400, 57600 and 115200bps;

Input register start address is 0, support 04 function code; Output register start address is 0, support 03, 16 function codes;

Every 8 registers (16 bytes) is 1 CAN frame; Every Modbus command includes 1 CAN frame;

[2] CAN side:

Support bidirectional data communication, also can be used as CAN receive and transmit; Support CAN2.0A and CAN2.0B;

CAN Baud rate support 1M, 500K, 250K, 125K, 100K, 62.5K, 31.25K, 20K, 10Kbps;

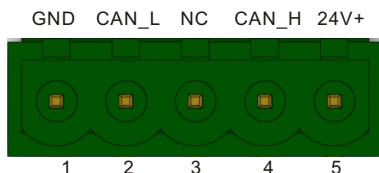
The FIFO of CAN transmit and receive are both 16 CAN frames;

[3] Operating Temp: -4°F~140°F (-20°C~60°C); Humidity: 5 to 95% (No Condensing);

[4] Power supply is 24VDC (11~30V), consumption: <2W@24V;

### Power interface

The gateway has no specified power interface, it gets power from Pin 1 and Pin 5 of CAN interface, it is shown as below:



Pin	Wiring
Pin 1	GND
Pin 3	NC (Not Connected)
Pin 5	24V+



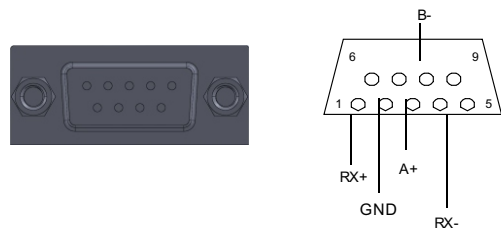
### Features

- Wide Application: Modbus master can visit devices with CAN interface;
- Easy to use: Easy configuration and finish network communication in a short period;
- Transparent Communication: Every frame of Modbus input/output message must include 8 registers;

[5] External dimensions (W\*H\*D): 3.94 in\*2.76 in\*0.98 in (100mm\*70mm\*25mm);

[6] Protection Level:IP20;

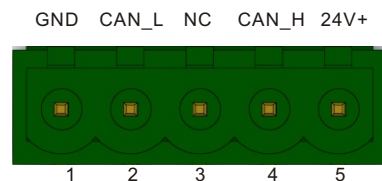
### RS-485 interface



Pin	Wiring
Pin 3	A+
Pin 8	B-
Pin 2	GND

### CAN interface

DeviceNet 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+

## Appearance



## Indicators

Indicators	State	Description
TX/RX	Green Blinking	RS-485 port is sending data.
	Red Blinking	RS-485 port is receiving data.
	Off	RS-485 port is not sending/receiving data
NS	Always Green	CAN network normal
	Always Red	CAN network failure

## LED Display

Double-click the button to enter into configuration mode. LED display Modbus slave address under communication mode; display "CF" under configuration mode.

## Quick Start Guide

1. Connect GT100-CA-MS485 with PC through RS-232/485 converter, checks the power and wiring correctly, and power on;
2. Under the configuration mode, use gateway configuration software SST-CAM-CFG to configure Modbus slave address, Modbus baud rate, check bit, CAN working mode and CAN baud rate, etc.

The way to enter configuration mode is: After powering on, the NS indicator is always on, double click the blue configuration button to switch to the configuration mode. Then, use SST-CAM-CFG to configure. After the configuration is done, restart the gateway (power off and power on) and start working.

3. Correctly wire the Modbus and CAN interface, and check the wiring.
4. Power on, the module enter into run mode.