Modbus TCP / DeviceNet Gateway GT200-MT-DN

User Manual

V 2.0

Rev A







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Important Information

Warning

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The product has many applications. The users must make sure that all operations and results are in accordance with the safety of relevant fields, and the safety includes laws, rules, codes and standards.

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GT200-MT-DN Modbus TCP/DeviceNet Gateway

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1 Product Overview

1.1 Product Function

The product can realize the data exchange with DeviceNet network through Modbus TCP. It supports connecting devices with DeviceNet interface to Modbus TCP network. This module is a server on the Modbus TCP side and a scanner or adapter on the DeviceNet side.

1.2 Product Feature

- DeviceNet Scanner: Supports connecting up to 8 DeviceNet devices to Modbus TCP network, such as: Robots with DeviceNet interfaces, inverters, welder, motor starting protection devices, intelligent field measurement equipment, etc.
- DeviceNet adapter: Supports data exchange between DeviceNet scanner and Modbus TCP master, such as: data exchange between robots, welder, PLCs and other devices with DeviceNet scanner interface and the host computer.
- Users don't need to know the technical details of Modbus TCP and DeviceNet, only refer to this manual and the application cases provided, complete configuration according to requirements, the network can be connected in a short time.
- Transparent communication: According to the mapping relationship between Modbus TCP communication data area and DeviceNet communication data area, users can realize data transparent communication between DeviceNet network and Modbus TCP network.
- Professional and efficient configuration software SST-DNET-COM: The gateway can scan DeviceNet adapters online through this software, quickly obtain its I/O parameters and configure parameters, support online debugging, support offline upload and download, offline configuration, and support DeviceNet scanner/adapter mode switch.

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1.3 Technical Specifications

- [1] Ethernet interface:
 - Supports 2 10M/100M adaptive network ports with build-in switch.
 - Supports Modbus TCP protocol, the Ethernet interface can be configured as a Modbus TCP server.
 - Supports function codes:03H, 04H, 06H, 10H.
 - The starting address of the input register is 0 (stores the received CAN frame), and support the function code 04H.
 - The starting address of the output register is 0 (stores the CAN frames that need to be sent), and support the function codes 03H, 06H and 16H.
 - Supports static configuration of IP address and DHCP.
- [2] DeviceNet interface:

DeviceNet supports two working modes: scanner station and adapter station. DeviceNet scanner station supports pre-operation mode and operation mode

- [3] As DeviceNet Scanner Pre-operation mode (Configuration switch 1-ON, 2-OFF)
 - Supports device search, namely online scanning DeviceNet adapter through SST-DNET-COM software.
 - Supports one-click application of the scanned DeviceNet adapter I/O parameter configuration, and reading and writing configuration through SST-DNET-COM software.
 - Supports reading and writing DeviceNet adapter parameters.
 - Supports reading and writing DeviceNet I/O data(polling).
 - Supports reading cos commands (COS) (up to 14 bytes).
 - Supports DeviceNet baud rate: 125K, 250K, 500K.
 - Supports reading and writing product information.
- [4] As DeviceNet Scanner Operation mode (Configuration switch 1-OFF, DIP2-OFF)
 - Supports communication with Modbus TCP network.
 - The Maximum number of input and output bytes supported by single DeviceNet adapter: 128 byte and 112 bytes.
 - The maximum number of input/output bytes supported by DeviceNet adapter: 512 bytes.



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- Supports connecting up to 8 adapter devices, and input timeout clearing and holding function of DeviceNet (optional).
- Supports reading cos commands (COS) (up to 14 bytes).
- Supports DeviceNet baud rate: 125K, 250K, 500K.
- [5] As DeviceNet Adapter
 - DeviceNet supports up to 224 bytes of input or output, 8, 16, 32, 96, 48, 64, 112, 72, 160, 192 and 224 bytes.
 - The module is powered from the DeviceNet network, and the power supply voltage is DC 11~30V.
 - Supports DeviceNet I/O Poll scanning.
 - Supports DeviceNet baud rate: 125K, 250K and 500K.
- [6] Operating temperature: -40 °F~140 °F(-20 °C to 50 °C). Relative Humidity: 5% to 95% (non-condensing)
- [7] Power: 24VDC (11V~30V), maximum 80mA (24V).
- [8] Built-in electrostatic protection: 15 KV ESD.
- [9] External dimensions (W*H*D): 1.0 in*4.0 in *3.6in (25mm*100mm*90mm).
- [7] Installation : 35mm DIN RAIL.
- [10] Protection level: IP20.
- [11] Pollution level: class 3.

1.4 Revision History

Revision	Date	Chapter	Description
V2.0	04/02/2021	ALL	New Release
V2.0 Rev A	07/25/2022	PART	New DeviceNet modeling
			software SST-DNET-COM







2 Hardware Descriptions

2.1 Product Appearance



Notes: This picture is for reference only. The product appearance is subject to the actual product.



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2.2 LED Indicators

Indicators	Status	Description	
	Green	Modbus TCP connection is established	
ENS	Green Blinking	Modbus TCP connection is not established	
(Ethernet Status Indicator)	Red Blinking	DHCP	
	Red Blinking twice	Power-on initialization state	
	OFF	Initialization completed. searching not started yet	
MNIC	Croon blinking	The scanner is online, but no connection has been	
MINS (DeviceNet Seenner	Green blinking	established with the adapter	
Devicentet Scallier -	Green	Connected with the adapter	
Fie-operation mode	Red Blinking	Disconnected with the adapter	
	Off	Module is running and initialization has not yet been	
	OII	completed	
	Graan Dlinking	Initialization completed, The scanner is online, but no	
MNS	Oreen Blinking	connection has been established with the adapter	
(DeviceNet Scanner -	Green	Connected with the adapter	
Operation mode)	Red Blinking	Disconnected with the adapter	
		There is no adapter on CAN network. Detected	
	Red	address confliction, CAN network error (like baud	
		rate error)	
	Red	DeviceNet network error	
	Red/Green	DeviceNet initialization	
MNS	Blinking		
(DeviceNet Adapter)	Green Blinking	DeviceNet connection is establishing	
	Green	DeviceNet network is normal	
ENS Orange MNS Orange			
(Orange: Red/Green is on	Blinking alternately	Configuration mode	
simultaneously)			
ENS Red MNS Red	Blinking 3 times	Locating	
	simultaneously		

Note: Configuration status: After power on, the orange blinks alternately, indicating that it is in the configuration status.







2.3 Configuration Switch/Button

The Configuration switch is used to set the operating mode of the GT200-MT-DN.



Mode (Bit 1)	Function (Bit 2)	Description
		• As DeviceNet scanner - Operation mode.
OFF	OFF	• As DeviceNet adapter - Operation mode and allows remote
		configuration.
		• As DeviceNet scanner - Pre-operation mode.
ON	OFF	• As DeviceNet adapter - Operation mode and prohibits remote
		configuration, effective in operation mode.
OEE	ON	Configuration mode, the IP address is fixed at 192.168.0.10. Users can
OFF	UN	only read and write configuration data, and operation is prohibited.
ON	ON	Enter the factory setting mode (forbidden to use by customers)

Notes:

- 1. To apply the mode switching, please restart the gateway.
- 2. When the GT200-MT-DN works as DeviceNet adapter, after finishing configuration, it's recommended to set the switch to 1-ON 2-OFF, which is the configuration mode that configuration in operation mode.

2.4 Interface

2.4.1 DeviceNet Interface



Pin	Description
1	GND
2	CAN-
3	shield
4	CAN+
5	+24V

Note: The GT200-MT-DN is powered in DeviceNet interface.







2.4.2 Ethernet Interface



RJ-45 port

The Ethernet interface uses RJ45 interface, follows the IEEE802.3u 100BASE-T standard, 10/100M adaptive,. its pin (standard Ethernet signal) is defined as below:

Pin	Description
S1	TXD+, Transmit Data+, Output
S2	TXD-, Transmit Data-, Output
S3	RXD+, Receive Data+, Input
S4	Bi-directional Data+
S5	Bi-directional Data-
S6	RXD-, Receive Data-
S7	Bi-directional Data+
S8	Bi-directional Data-





3 Hardware Installation

3.1 Mechanical Dimensions

Size (width * height * depth):

1.0 in * 4.0 in * 3.6 in (25 mm * 100 mm * 90 mm)



3.2 Installation Method

Using 35mm DIN RAIL.









4 Quick Start Guide

4.1 Hardware Connection

1. According to the instructions of the RJ-45 port in Chapter 2, correctly connect the corresponding wiring of each pin of the RJ-45.

2. According to the instructions of the DeviceNet port in Chapter 2, connect the wiring correctly, and note that

it is not suitable to power on at this time.

- 3. Check whether the wiring conforms to the instructions of the manual.
- 4. Power on the module and it will enter the running state.

4.2 Communication Debugging

- The default configuration of GT200-MT-DN is DeviceNet scanner mode, the DIP switches are all OFF, and the default IP address is 192.168.0.X. Users can change the operating mode according to the actual application.
- 2. The gateway uses the network port connection configuration, please refer to Chapter 5 of the manual for details.
- 3. After the GT200-MT-DN configuration is completed, install GT200-MT-DN on the standard rail frame, power on and use.





5 SST-DNET-COM Software Instructions

5.1 Notes Before Configuration

When the DIP of GT200-MT-DN is "1ON 2OFF", the gateway is in operation mode, and the I/O parameters of the adapter devices on the DeviceNet network can be configured through SST-DNET-COM software.

DeviceNet network configuration software SST-DNET-COM is developed by SST Automation. It needs to be used with SSTCOMM's GT200-MT-DN or other DeviceNet scanner modules.

The following introduction is aimed at helping you get quickly started for using our gateway. More details about using software, please refer to "Help"->"Content" in the SST-DNET-COM software.

5.2 Software Main Interface

The local machine code is:	660f07596151510d
Please enter the activation code:	
(If you already have an activ activation code, please click	vation code, please enter it. If there is no to get the activation code)

For the first time to use the SST-DNET-COM software, it requires activation code.

Click "Get Activation Code" and it will jump to sstautomation.com for activation.





You can access SST-DNET-COM software after entering correct activation code.

SST-DNET-COM - Untitled	-		×
File(F) Edit(E) View(V) Net(N) Device(D) Tools(T) Help(H) Title Bar			
Equipment Managem × B device Type Communication B General Purpos B Specialty I/O B Manufacturer B W Allen-Bradley C B W Rockwell Autor B W SST Automatio Tree View			
Output Window Informa Time Explanation			×
Comment Interface			
Ready	Capital N	umber S	croll .

Configuration window: After establishing the internet connection, display the online device and modify the address and parameters of the device online, check the input and output data. In the offline state, you can view device properties by dragging the device icon to the window.

Tree View: Displays registered DeviceNet devices in different ways: device type, manufacture. Under different manufacturers, different devices are displayed separately according to the device type.

Comment Interface: Dynamic display of network scanning information, registered device information, delete device information, etc. display the results of "find devices", "find next".







5.3 Toolbar

Toolbar is shown as below:

🗄 🗋 🧉 🛃 📕 🖄 🖺 🔃 🔄 🎯 EDS Wizard 🛛 👯 👫 🛛 🛃 Internet Connection 🔡 🚎 💥 📃 🛅 📰 🚍

Functions separately from left to right are: New, Open, Save, Print, Cut, Copy, Paste, Refresh viewport, EDS Wizard, Find devices in the device library, find next, Internet Connection, One-Click Save, Disconnect, Configure, Send Explicit Message, Property, Device Management, Output.

5.4 DeviceNet Device Network Configuration

EDS Registration Wizard

Users can configure different DeviceNet devices by registering new EDS files. Register the new EDS file, select "Tools" -> "EDS wizard", or click "EDS wizard" button in the toolbar. Or directly click the right button in the Equipment management window and select "EDS wizard" which will pop up the EDS wizard interface. The three ways are as follows:







EDS wizard interface is shown in the following figure:

S Wizard		
Welcome to use SST Automation EDS Guide		
With this wizard you can do the fol	lowing:	
- Register an EDS-based device		
- Log out of a device		
- Change the icon of a device		
	Start(S)	Cancel(C)

Select "Start "and pop up the following interface:

DS Wizard	×
Welcome to u SST Automatio	se on EDS Guide
Please se	lect the action you need:
	Register an EDS file This item will add a device to your device library.
	C Log out of an existing device This item will remove a device registered with the RDS file from your device library
	C Change the icon of a device includy. This item will change the icon associated with a device.
	Previous(P) Next step (N) Cancel(C)

In this interface, users can choose to register an EDS file, log out of an existing device, and change the icon of a device.

Take "Register an EDS file" as an example to introduce the following steps for registering a new EDS file:

After selecting "Register an EDS file", click "Next step" and select the storage path of EDS file you want to register in the pop-up interface, as shown in the figure below:

Click "Next step" to pop up the EDS file test report interface. If there is an error in the EDS file, the error message will be displayed in the interface, and there is no "Next step" operation. If there is no error in the file, continue the "Next step" operation, pop-up selection device icon interface as follows:

Welcor SST Au	me to u itomatic	se on EDS Guid	e		
E	DS file	test report:			
	ID	Type	Description	1	
	Rever 0	. Warning O		872	file
	LITOT O			View	+1+C



GT200-MT-DN Modbus TCP/DeviceNet Gateway User Manual EDS Wizard Welcome to use SST Automation EDS Guide



After selecting a device icon, click "next step" to pop up the factory information of the registered device, as shown

in the figure below:

Velcome to SST Autom	o use ation EDS Gu	ılde
- You	have successfu the Rivich but	lly set the registration parameters and
Th	e device infor	mation is as follows:
	Icon:	
	Icon: Name:	Modbus/DeviceNet Gateway
	Icon: Name: Supplier:	Modbus/DeviceNet Gateway SST Automation
	Icon: Name: Supplier: Type:	Modbus/DeviceNet Gateway SST Automation Communication Adapter
	Icon: Name: Supplier: Type: Version	Modbus/DeviceNet Gateway SST Automation Communication Adapter

Click "Finish" and the EDS file registration step is over. At this time, you can see the newly registered device in the equipment Management Window.

If you want to change EDS file for the same device, please first find the device in the device management library and right click. After logging out, re-register the new EDS file, or complete the logout operation through the EDS operation.

PC-DeviceNet Interface Setting



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SST-DNET-COM software needs to be used together with the DeviceNet scanner module. First, connect GT200-MT-DN to Ethernet, and then connect GT200-MT-DN's DeviceNet port and user's DeviceNet device to the DeviceNet network. Power Supply of GT200-MT-DN is 24VDC.

Power on After correctly Connecting to Power Supply, the connection of DeviceNet network can be established by "Internet Connection" in the menu bar or toolbar.Click "Internet Connection" and pop up the path selection interface:

election	MT 1 0		C 07300 DB D		
C PULCA	N Interface		(G1200-DP-DI	M Interface	
C USB-C.	AN Interfac	e	← GT100-DP-DI	M Interface	
C GT200-	PN-DM Inte	erface	GT200-MT-D	N Interface	
C GT100-	PN-DM Int	erface		Satting inter	c.
etwork Seg	ment		<u>+</u>		Tace
etwork Seg	ment —		View o	levice informatio	on
etwork Seg Serial Nu	ment Device	IP Address	View of MAC Addre	levice informatio	on
etwork Seg Serial Nu Default	ment Device Default	IP Address Default	View of MAC Addre Default	levice informatio	on

Then click the interface setting, the software will display the searched device in the list, select the scanner station to be configured for the interface setting:





At default, the GT200-MT-DN act as a DeviceNet adapter mode. Please change to the scanner mode if you want to use it as a DeviceNet scanner mode.

Firstly, upload the gateway by right clicking the blank area.



NO.	Serial Number	Device	IP Address	MAC Address	Version
1	105302115	GT200-MT-DN	192.168.0.30	64-ea-c5-16-08-43	1.5
C	Selected	Re	fresh	Cancel	



Double click the module,





Choose DeviceNet Parameters, click DeviceNet Slave.

General information S Modbus TCP Parameter	can List Input Output DeviceNet parameter
The EDS file is used to device data provided by	communicate to the user the the manufacturer.
greement Type:	DeviceNet
eviceNet baud rate:	125k 👻
leviceNet Node address:	þ
xplicit packet timeout time:	250
etwork input timeout clear tim	e: 20
/O time scan period:	5
nput data hold/clear:	Hold
umber of command resends:	3
eviceNet M/S:	DeviceNet Slave

Uncheck the box, and click OK, then click Downlaod button.



Manual	
Polled Input: 48 y Byte Output: 64 y Byte	s OK
COS Input: Byte	Slave Parameters BaudRate: 125k

Choose the gateway shown, click Selected.

NO.	Serial Number	Device	IP Address	MAC Address	Version
	105302115	GT200-MT-DN	192.168.0.30	64-ea-c2-16-08-43	1.5
	Selected	F	lefresh	Cancel	1
Search					
ST-DN	ET-COM				×
<u>^</u>	Do you v	vant to dow	vnload the c	urrent configur	ation?
ET-CO	И				
	current dev	vice is the D	eviceNet sl	ave, which is inc	consistent



Then the gateway will enter DeviceNet scanner mode.

And re-upload the gateway, it will show the Version 2.0 which means the gateway is in the DeviceNet scanner mode.

1 105302115 GT200-MT-DN 192.168.0.30 Selected Refresh	64-ea-c5-16-08-43 2.0
Selected Refresh	
Selected	
	Cancel
rch	
Interface Settings	×
IP Address: 192.168	. 0 . 30
DeviceNet Node Address: 0	
DeviceNet Baud Rate: 125k	-

Notes: the interface settings configuration, "IP address" is the IP of the device selected at the time of search. "DeviceNet Node Address" is the Address of DeviceNet Scanner Module. Set any value between 0 and 63, which can't conflict with other node addresses on the bus. "DeviceNet baud rate" is the baud rate of DeviceNet scanner module, 125K, 250K, 500K optional. Keep Bus Baud Rate Consistent.



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5.5 DeviceNet Network Scanning

After the interface is set up, the network scanning interface pops up:

C PCI-CA	N Interface		C GT200-DP-DN	A Interface	
C USB-CA	AN Interfac	е	C GT100-DP-DN	A Interface	
C GT200-	PN-DM Int	erface	GT200-MT-D	N Interface	
C GT100-	PN-DM Int	erface		Setting in	nterface
			View d	levice inform	nation
erial Nu	Device	IP Address	MAC Addre	Version	
Default	Default	Default	Default	Default	
2010 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

The scanned device is displayed in the main window, as shown in the figure below:



GT200-MT-DN Modbus TCP/DeviceNet Gateway User Manual			
SST-DNET-COM - Untitled	<u></u>		×
File(F) Edit(E) View(V) Net(N) Device(D) Tools(T) Help(H)			
Equipment Management × Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image: Special Purpose Discrete I/O Image:			
Output Window	_	_	×
Informa Inffe Expanation 1/0 2022-7-27 13: Add device: Modbus TCP/DeviceNet Gateway 1/1 2022-7-27 13: Add device: PROFINET/DeviceNet Master 1/2 2022-7-27 13: Deleted device: Modbus TCP/DeviceNet Gateway.			
Ready	Capital I	Number	Scroll -

After the DeviceNet network is connected, the user can "Disconnect the network" through the toolbar button, as

shown in the figure below:

🔣 SST-D	NET-COM - Untitle	ed							×
File(F)	Edit(E) View(V)	Net(N) Device(D) To	ools(T) Help(H)						
0 💕 🕻		🐁 🛛 📄 🛛 🚑 EDS Wizard 💧	📖 🏦 🛃 Internet C	Connection 💾 롲	S 🗉 🖬 🖬				
Equipment	t Management ceNet evice Type a AC Drive Communication General Purpose Specialty I/O anufacturer Allen-Bradley Cc Rockwell Autom SST Automation Communicati Modbus T Modbus T ROFINET,	X Master Discrete I/O mpany, Inc. ation/Entek IRD Intl. Co. Ltd on Master CP/DeviceNet Gateway CP/DeviceNet Master DeviceNet Master	PROFINET/Devi. Master			Disconnect DeviceNet net	work		
Output Wi	ndow								×
Informa	Time	Explanation							
Ф 0	2022-7-27 13:	Add device: Modbus TCF	P/DeviceNet Gateway						
W 1	2022-7-27 13:	Add device: PROFINET/D	eviceNet Master						
₩2	2022-7-27 13:	Deleted device: Modbus	TCP/DeviceNet Gatewa	ay.					
14 + F	Information Fi	nd /							
Ready							Capital N	lumber S	croll .

5.6 Equipment Parameter Modification and I/O Data Test

Double-click the scanned network node and appear the device property page.







In "General information" options Interface, DeviceNet scanner module address cannot be modified here. It can only be modified in the interface settings, as specified in Chapter 5.5 of this manual, "Device ID" displays the information of the device manufacturer, type, device, sort and version. If you choose to configure GT200-MT-DN, after setting all the parameters, you can click the "Apply" button to download.

	NET Parameter DeviceNet parameter
General in Devi	formation Scan List Input Output
Name:	SST DeviceNet Master
Description	.:
Device ID-	
manufacture	r: SST Automation Co. Ltd [1016]
Type:	Communication Master [12]
Device:	SST DeviceNet Master [20]
	SST Communication Master
Sort:	

In the "Scan List" option interface, users can select devices to add to the "Scan List" of the scanner and set its I/O parameters:





Modbus TCP Param	neter	DeviceNet pa	rameter
General information	Scan List	Input	Outpu
The EDS file i device data pr	is used to communic rovided by the manu Sca	ate to the user facturer. n List:	the
ID parameter name	ID	parameter na	me
		1 Modbus TCP/D	evi
	<		
	>>		
	<u> </u>		
	× <		
🖉 Automatic mapping wh	hen adding	Node activity	
Automatic mapping w1	hen adding	Node activity Lectronic key	
Automatic mapping w1 Upload from scanner Download to scanner	hen adding	Node activity Lectronic key DeviceType Vender	
Automatic mapping wh Upload from scanner Download to scanner	hen adding	Node activity lectronic key DeviceType Vender Product Type	
Automatic mapping w1 Upload from scanner Download to scanner Edit I/O parameters	hen adding	Node activity lectronic key DeviceType Vender Product Type MaiRev	
Automatic mapping wl Upload from scanner Download to scanner Edit I/O parameters	hen adding	Node activity lectronic key DeviceType Vender Product Type MajRev MinRev	

Add adapter station 9 to the scanner station mapping list, and then select adapter station 9 in the "Scan List". After selecting it, click "Edit I / O parameters". This interface sets the number of input and output bytes of the adapter:

Strobed	COS/Cyclic	
∏ Allowed	T Allowed	
Input: 0 📩 Bytes	🕫 State Change((COS) 🥂 Cycle(Cylic)
Use output bit 🦵	Input:	0 ÷ Bytes
Polled	Output:	0 ÷ Bytes
Allowed	Heartbeat Rate:	250 <u>*</u> msec
Input: 48 📩 Bytes		
Output: 48 Bytes		Advanced(A)
Polling cycle: Every scan		
Restore I/O size(R)	1	OK Cance

Notes: If the I/O parameters of the node have been saved in GT200-MT-DN, the scanned I/O parameters are the saved I/O parameters. if the I/O parameters of the node have not been saved in GT200-MT-DN, this I/O parameter is the default value, and users can configure it according to the actual I/O parameters.



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In the "input", "output" options interface, The user can map the address of the device added to the scanner and select automatic mapping. In the figure below, the "start" edit box parameter is the starting address of the automatic mapping. The automatic mapping will start with the address set here, where one unit is two bytes, that is, when the "Start" edit box parameter is "1", the automatic mapping will start with the third byte.

Modbus	TCP	Param	eter				D	evio	eNet	t ps	aran	nete	r	
General in:	Eorma	tion	1	Sca	n Lis	t		Ir	nput				Out	put
The devi	EDS : ce d:	file i ata pr	s us ovid	sed to led by	commu the m	ni cat anuf:	te t actu	o tl rer.	ne u	ser	the	e		G
Node	T	ype	3	51Ze	Ma	P				-				
										10		Map	())	
											1	[mm.o	m (R	1.
										10	1	linma	p (R)
										10	l Ad	lnma Van	op (<u>R</u> ced) (<u>A</u>)
										10 M	L Ad	/nma van: pti:	op (<u>R</u> ced on (() (A) ()
Buffer	MI	7ile		•	St	art	0			-	L Ad Oj	lnma van: pti	op (<u>R</u> ced on (() (<u>A</u>) (<u>)</u>
Buffer Bits 16 - O	M F	7ile 14 13	12	• 11 10	St	art }7	0	5	÷	3	1 Ad 0; 2	finna Vanj pti	op (<u>R</u> ced on (() (A) D
Buffer Bits 16 - 0 MI:1.0	M F	7ile 14 13	12	• 11 10 Modbus	St 9 8 5 TCP/	art } 7 Devi	0 6 ceNe	5 tG	÷ 4 atew	3 ay	1 Ad 0; 2	fima van pti	op (R ced on (() (A) 2)
Buffer Bits 16 - 0 MI:1.0 MI:1.1	M I 15	7ile 14 13	12 1 1	▼ 11 10 Modbus Modbus	St 9 8 5 TCP/ 5 TCP/	art 3 7 Devi Devi	0 6 ceNe ceNe	5 et G	4 atew	3 ay ay	1 Ad 0; 2	frima van pti	on () (A)
Buffer Bits 16 - 0 MI:1.0 MI:1.1 MI:1.2	M F 15	7ile 14 13	12 1 1 1	▼ 11 10 Modbus Modbus	St 9 8 5 TCP/ 5 TCP/ 5 TCP/	art 37 Devi Devi Devi	0 6 ceNe ceNe ceNe	5 et G et G	4 4 atew atew	3 ay ay	1 Ad 0) 2	fnms van pti	ф <u>(R</u> ced оп (() (A) 2)
Buffer Bits 16 - 0 MI:1.0 MI:1.1 MI:1.2 MI:1.3	M I 15	7ile 14 13	12 1 1 1 1	TI 10 Modbus Modbus Modbus	St 9 8 5 TCP/ 5 TCP/ 5 TCP/ 5 TCP/	art 37 Devi Devi Devi Devi	0 6 ceNe ceNe ceNe	5 et G et G	4 atew atew atew atew	3 ay ay ay ay	1 Ad 0; 2	fnms varu pti	ф <u>R</u> ced оп (() (A) (J)
Buffer Bits 16 - 0 MI:1.0 MI:1.1 MI:1.2 MI:1.3 MI:1.4	M F 15	?ile 14 13	12 1 1 1 1 1	TI 10 Modbus Modbus Modbus Modbus	St 9 8 5 TCP/ 5 TCP/ 5 TCP/ 5 TCP/ 5 TCP/	art) 7 Devi Devi Devi Devi Devi	0 6 ceNe ceNe ceNe ceNe	5 .t G .t G .t G	4 4 atew atew atew atew	3 ay ay ay ay ay	1 Ad 0; 2	frm a van ptio	op (<u>R</u> ced 0) (A) (J)
Buffer Bits 16 - 0 MI:1.0 MI:1.1 MI:1.2 MI:1.3 MI:1.4 MI:1.5	M I 15	7ile 14 13	12 1 1 1 1 1 1 1 1	TII 10 Modbus Modbus Modbus Modbus Modbus	St 9 6 5 TCP/ 5 TCP/ 5 TCP/ 5 TCP/ 5 TCP/ 5 TCP/	art 3 7 Devi Devi Devi Devi Devi Devi	0 6 ceNe ceNe ceNe ceNe ceNe	5 tG tG tG	4 atew atew atew atew atew	3 ay ay ay ay ay	1 Ad' 0; 2	frm a van 1	φ <u>(R</u> ced on (() (A) (D)

If users need to map manually, they can also click the "Advanced" button to set the starting address in the dialog box shown below.

In the advanced Settings interface, the user can also set the byte exchange mode of this adapter device. There are three types of byte exchange: no-exchange, two-byte exchange, and four-byte exchange. The meanings are as follows:

no-exchange:data transfer normally

Two-byte exchange: Two-byte exchange in the same register, for example, the result after 1234 swapping is 3412

Four-byte exchange: Four-byte exchange in two registers, for example, after 12, 34, 56, 78 swap, the result is 78,

56, 34, 12



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Here yo the num	u can accurately map the I/C ber of bits correctly.) you need. Please	set the num	iber of bytes and
lap From:		Map To:		
1 M Gate	lođbus TCP/DeviceNet eway		0 Modbus 1 Master	[CP/DeviceNet
Message:	Polled 💌	Memory:	M File	•
Byte:	0	Byte:	0	
Rit-		Bit	0	
	1- <u>-</u>		1.	<u> </u>
Darta anna a	No exchange			
syte swap:				
			OK	Cance
Modb	us TCP Parameter	D	eviceNet j	parameter
Modb General i EDS Th de	us TCP Parameter .nformation Sc .e EDS file is used to wice data provided by	D an List communicate t the manufactu	eviceNet j Input o the use: rer.	parameter Outpu r the
Modb General i EDS Th de Node	us TCP Parameter information Sc: ue EDS file is used to vvice data provided by	D an List communicate t the manufactu Man	eviceNet j Input o the use: rer.	parameter Outpu r the
Modb General i EDS It Node 1 Modb	us TCP Parameter information Sc te EDS file is used to vice data provided by Type Size u Polled 48 Byt	D an List communicate t the manufactu Map es MI:1.0.0	eviceNet j Input o the use: rer.	parameter Outpu r the
Modb General i de Node 1 Modb	us TCP Parameter information Sc: wice EDS file is used to wice data provided by Type Size u Polled 48 Byt	D an List communicate t the manufactu Map es MI:1.0.0	eviceNet j Input o the use: rer.	parameter Outpu r the
Modb General i EDS Th de Node 1 Modb	us TCP Parameter information Sc te EDS file is used to wice data provided by Type Size u Polled 48 Byt	D an List communicate t the manufactu Map es MI:1.0.0	eviceNet j Input o the use: rer.	parameter Output r the Map(M)
Modb General i EDS It Node Node	nus TCP Parameter information Sc te EDS file is used to voice data provided by Type Size u Polled 48 Byt	D an List communicate t the manufactu Map es MI:1.0.0	eviceNet p Input o the use: rer.	parameter 0utpu r the Map (M) 11mman (R)
Modb General i Th Mode Mode	nus TCP Parameter information Sc we EDS file is used to vvice data provided by Type Size u Polled 48 Byt	D an List communicate t the manufactu Map es MI:1.0.0	eviceNet p Input o the use: rer.	parameter Outpur r the Map (M) Unmap (R)
Modb General i Th de Node 1 Modb	us TCP Parameter information Sc e EDS file is used to wice data provided by <u>Type Size</u> u Polled 48 Byt	D an List communicate t the manufactu Map es MI:1.0.0	eviceNet j Input o the use: rer.	parameter Output r the Map (M) Unmap (B) (Advanced (A)
Modb General i de Node 1 Modb	nus TCP Parameter information Sc te EDS file is used to evice data provided by Type Size u Polled 48 Byt	D an List communicate t the manufactu Map es MI:1.0.0	eviceNet p Input o the use: rer.	parameter Output r the Map(M) Unmap(R) [Advanced(A) Option(Q)
Modb General i Th Code Node 1 Modb	nus TCP Parameter information Sc e EDS file is used to evice data provided by Type Size u Polled 48 Byt	D an List communicate t the manufactu Map es MI:1.0.0 Start 0	eviceNet p Input o the uses rer.	parameter Output r the Map (M) Unmap (R) [Advanced (A) Option (Q)
Modb General i Th de Node 1 Modb	M File 13 12 11 10	D an List communicate t the manufactu Map es MI:1.0.0 Start 0	eviceNet j Input o the use: rer.	parameter Output r the Map (M) Unmap (R) (Advanced (A) Option (Q) 2 1 0 4
Modb General i Th de Node 1 Modb	nus TCP Parameter information Scu te EDS file is used to wice data provided by Type Size u Polled 48 Byt M File D 15 14 13 12 11 10 1 Modbu	D an List communicate t the manufactu Map es MI:1.0.0 Start 0 9 8 7 6 s TCP/DeviceNe	eviceNet j Input o the use: rer. 5 4 3 at Gateway	parameter Outpur r the Map (M) Unmap (R) (Advanced (A) Option (Q)
Modb General i Node 1 Modb	M File M File 15 14 13 12 11 10 1 Modbu 1 Modbu 1 Modbu	D an List communicate t the manufactu Map es MI:1.0.0 Start 0 1 9 8 7 6 s TCP/DeviceNe s TCP/DeviceNe	eviceNet j Input o the use: rer. 5 4 3 ot Gateway	parameter Output r the Map (M) Unmap (R) (Advanced (A) Option (Q)

If you need to set the unit that maps the starting address in "advanced I/O mapping Settings", click "option" button to set it. As shown in the figure below, "Byte Align" means in one byte and "Word Align" means in two bytes:

Download

1 Modbus TCP/DeviceNet Gateway

OK

Cancel

MI:1.5

MT-1 6

I/O Mapping Options Data link C Pack Align © Byte Align	ser manual	
Data link Pack Align F Byte Align	I/O Mapping Options	×
Byte Align	C Pack Align	☐ Do not map useless data
A STATE AND A STATE AN	Byte Align	

In the "Modbus TCP parameter " interface, if the users want to set the Modbus TCP parameters of GT200-MT-DN,

|--|

General information Modbus TCP Par	Scan List Input ameter DeviceNet pa	Output rameter
The EDS fi device dat	le is used to communicate to the use a provided by the manufacturer.	er the
Agreement Type:	Modbus TCP Server	
IP Setting	Static Configuration	•
IP Adress:	192 168 0.10	
Subnet Mask:	255. 255. 255. 0	
Gateway	192. 168. 0. 1	
DNS1:	0.0.0.0	
DNS2:	0.0.0	
Port:	502	
Check Unit ID:	open	
Unit ID:	1	
	D-1-1 OF	

In the "DeviceNet parameter" interface, users can set DeviceNet parameters. "Input Data Hold/clear" means whether the corresponding DeviceNet input data is cleared when the number of DeviceNet command response errors reaches the number of DeviceNet command retransmissions. Select "clear", DeviceNet input data is cleared, select "hold", DeviceNet input data keep the correct data received last time. "Number of command resends" means that when DeviceNet command responds incorrectly, the number of the command Resends ranges from 2 to 254





_

and the default value is 3.

General information	Scan List	Input	Outpu
Modbus TCP Parameter		DeviceNet par	ameter
The EDS file is used device data provided	to communicate by the manufac	to the user the turer.	
Agreement Type:	DeviceNet		
DeviceNet baud rate:	250k		_
DeviceNet Node address:	0		
Explicit packet timeout	250		
Network input timeout	20		
I/O time scan period:	5		
Input data hold/clear:	Clear		-
Number of command	3		
DeviceNet M/S:	DeviceNet S	Lave	

5.6.2 DeviceNet Adapter Module

As shown in the figure below, in the "General" option interface, you can modify the address. "Device ID" shows the information of the device manufacturer, type, device, sort and version.

Notes: The adapter node address can be modified. When modifying, make sure that the adapter node has disconnected from the DeviceNet network.



User	Manual
	Property
	Device Name: Modbus/DeviceNet Gateway Description:
	Address: 2
	Device ID

 Apply
 OK
 Cancel

 The parameter interface is shown in the figure below. In this interface, the user can upload and download the parameters of the device to facilitate online modification of the device parameter values.

Communication Master [12]

GT200-DN-RS

1.2

Modbus/DeviceNet Gateway [19]

Type:

Device:

Version:

Sort:

eneral info	rmation Parameter I/O Dav	a EDS File ant to configure in the
li By Grou	st, then select the corresp	onding button in the
ID	parameter name	current value
1	Modbus_status	0
a 2	Input bytes	64
@ 3	Output bytes	64
4	Mod_Output_Ctrl	Continuous Output



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The "Reset" button can restore the default value of the parameters, and can only "Reset" for a single parameter.

The "Upload" button supports single and full parameter operation. After clicking "Upload", the interface will display the actual parameter value of the current online adapter DeviceNet device.

The "DownLoad" button only supports single parameter operation, through which the parameters of online devices can be modified. Whether the parameters support the "Download" operation can be seen from the "ID" number of the interface. If there is an 🖻 icon before the ID, the parameter cannot be modified online by the configuration software. Whether the parameters support online modification is determined by the EDS file that is registered.

The display of the property interface also includes: parameter ID, parameter name and the current value of the parameter, SST-DNET-COM software supports relevant linear operations on parameters defined in EDS files, The current value shows the result of the operation, and the user can set the relevant operation factor as required.

The I/O data interface is shown in the figure below. After the DeviceNet network device is connected, the byte length of network output and network input is determined. How does the user know the length of the input and output? You can learn from EDS.

Polled inpu	t Polled output	Cos input	Help
Message Typ	e Size	Data Description	





The number of bytes in/out of SST-DNET-COM software can also provide this information.

In the figure above, the input and Output 64-Bytes bytes provided under the "Polled" project are the default input and output data byte lengths.

The maximum number of input bytes supported by SST-DNET-COM software is 128, and the maximum number of output bytes is 112.

Take "Polled Input" and "Polled Output" as examples:

Click the "Polled Input" button, and then click the "Read" button, DeviceNet software will read the network input data. If the user selects the "Continuous reading" check box, SST-DNET-COM software will continuously read the network input data of the field DeviceNet device. As shown in the figure below:

Polling input data length 16	
Polling input data	
110000000000000	

Similarly, by clicking the "Polled Output" button, users can see the network output data dialog box. The user must type in all the output data, otherwise the output data is incomplete (the number of bytes is incorrect), and the output will not succeed.



Polling output	x
Polling output data length: 16 Polling output data	
1100000000000	*
Output	Cancel

If the output data length is incorrect, it will be displayed:



Note that after the address is changed in the general interface, because the device with the modified address will be restarted and the DeviceNet internet connection has been disconnected, at this time, the I/O data input and output operation will not be able to see the data, You need to disconnect SST-DNET-COM's "Internet Connection" and re-establish the internet connection.

5.6.3 Offline Upload and Download Configuration

The upload device can only be used when the network connection is disconnected. After opening the software, click Device -> Upload -> GT200-MT-DN, or right click in the main window -> Upload -> GT200-MT-DN.



GT200-MT-D Modbus TCP	N DeviceNet Gateway	
User Manual		
	Device(D) Tools(T) Help(H)	
	Upload(U)	
	Download(D)	
	iii. Send Explicit Message(S)	
	Register Again(R)	
	Property(P)	
SST-DNET-COM - Untitled	- (- x
File(F) Edit(E) View(V) Net(N) Device(D) Tools) Help(H)	
: 🗋 🧀 🛃 🎒 🐰 📭 🎘 🖻 🍣 EDS Wizard 🎇	🚓 🛛 🚔 Internet Connection 🔚 😹 🖉 🗮 🏥 💼 💂	
➡ Device Net ➡ Device Type ➡ C Drive ➡ General Purpose Discrete I/O ➡ Specialty I/O ➡ Manufacturer ➡ Manufacturer ➡ Mackwell Automation/Entek IRD Intl. ➡ Mackwell Automation Co. Ltd ➡ Communication Master ➡ Modbus TCP/DeviceNet Gateway ➡ Modbus TCP/DeviceNet Master ➡ PROFINET/DeviceNet Master	Involution of the Linear Composition 01 Image: Second Composition Image: Second Composition <	
Output Window	Download(D)	×
Intorma Time Explanation \$\U0\$ 2022-7-27 13: Add device: Modbus TCP/Device \$\U1\$ 2022-7-27 13: Add device: PROFINET/Device \$\U2\$ 2022-7-27 13: Deleted device: Modbus TCI	iceNet Gateway Net Master DeviceNet Gateway.	
Find /	Capital Numb	oer Scroll

Select a device to upload:

NO.	Serial Number	Device	IP Address	MAC Address	Version
1	105502115	G1200-M11-DN	192.108.0.30	04-ea-c3-10-08-43	2.0
	1		1		1
	Selected	Re	fresh	Cancel	

After the upload is complete, the uploaded device is displayed in the main window and prompts that the upload is successful. Double-click the uploaded scanner device to view and modify the configuration information. The node information of the adapter can be viewed and modified in the scan list of the scanner, and the IP address of the









File(F) Edit(E) View(V) Net(N)) Device(D) Tools(T	Help(H)		
	EDS Wizard 🛛 🗱	🔠 📑 Internet Connection 📘		
Equipment Management 그 쇼핑 DeviceNet 는 Du Device Type	Modbus TCF/DeviceNet Master	No Product No Product Name Name		
 	00	Property Modbus TCP Parameter	Nevi reNet narameter	3
		General information	Scan List Input Output	
		The EDS file is u device data provi-	sed to communicate to the user the ded by the manufacturer.	
⊡-⊡ Communication N ¶ Modbus TCP/I ∭ Modbus TCP/I		ID parameter name	TD parameter name	
PROFINET/Dev			I/O parameter settings	
			Strobed	COS/Cyclic Allowed
		Automatic mapping when	Input: 0 📩 Bytes	C State Change(COS) C Cycle(Cylic)
		Upload from scanner Download to scanner	Use output bit 🗖	Input: 1 📩 Bytes
		Edit I/O parameters	Polled Allowed	Output: 0 Bytes
			Input: 1 🔅 Bytes	Adversed/A)
		<u> </u>	Output: 0 📩 Bytes	Advanced(A)
			Polling cycle: Every scan	
			Restore I/O size(R)	OK Cancel

The modified configuration parameters can be downloaded to GT200-MT-DN. GT200-MT-DN as the DeviceNet





scanner station only supports Operation mode for downloading configuration parameters, and Pre-operation mode does not support downloading.

When downloading configuration in Operation mode, it prompts that the download is successful and restarts the gateway, as shown in the figure below:

	SST-DNET-COM
	Download successfully!
	ОК
ST-DNET-COM	×
Do yo	ou want to perform the restart remotely? OK Cancel
	SST-DNET-COM
	Restart successfully!

When downloading the configuration in the Operation mode, it prompts that it cannot be downloaded. To download in the Operation mode, please turn the DIP to 1ON 20FF, as shown in the figure below:





About 5s after the DIP switch is set to 1ON 2OFF, the device can download configuration. After downloading, it will prompt that the download is successful and the downloaded configuration will take effect after restarting the device, and it will prompt that the DIP switch should be set back to 10FF 20FF.

Note: If users open the SST-DNET-COM software, drag GT200-MT-DN from the device management window on the left to the main window, double-click the dragged device, and open the general, scan list, input, output, Modbus TCP parameters, DeviceNet parameters, etc., modify the required parameters and download.

5.6.4 View Device Information

Users can check whether the current device is in scanner or adapter mode in SST-DNET-COM, click "Network Connection" -> " GT200-MT-DN" -> "View Device" -> "View".



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Plea	ase se <mark>l</mark> ect t	he communicat	ion path of the ne	twork you need	4 .
election					
C PCI-CA	N Interface	i.	○ GT200-DP-DM	I Interface	
C USB-CA	AN Interfac	e	C GT100-DP-DM	I Interface	
⊂ GT200-I	PN- <mark>DM In</mark> t	erface	GT200-MT-D	V Interface	
C GT100-J	PN- <mark>DM In</mark> t	erface		Setting inter	face
	Device	IP Address	MAC Addre	Version	
Serial Nu	2001100				
Serial Nu	Default	Default	Default	Default	

1 105302115 GT200-MT-DN 192.168.0.30 64-ea-c5-16-0	8-43 2.0
Selected Refresh Cano	:el



Manual		
Device Information		
Device Information		
serial:	105302007	
Version:	2.0	
IP Address:	192.168.0.110	
MAC Address:	64-ea-c5-16-07-d7	
DeviceNet M/S:	DeviceNet Master	

5.6.5 Switching of Working Mode

Please switch the DIP to 10N 20FF before switching the working mode. Open the property bar of GT200-MT-DN, click "DeviceNet Parameters" -> "DeviceNet Adapter" -> "DeviceNet Adapter Mode"(Ticking it means adapter mode, not ticking means scanner mode), then set the number of input and output bytes, baud rate and adapter address of the adapter, and click "OK "->"Download", SST-DNET-COM will prompt whether the mode does not match, whether to switch, as shown in the figure below:

Polled				Z DeviceNet	Slave Mod
Input:	64	▼ Bytes		Dericenter	Slave Mou
Output:	64	▼ Bytes			OK
L					Cancel
cos —			Slave Paramet	ters	
Input:		Bytes	BaudRate:	250k	•
Output:		- Bytes	Address:	63	





Click "OK" to switch the mode, prompting that the switch is successful, please download again, as shown in the figure below:

ST-DNET-COM	×
Mode switch is successful	, please download again!

Click Apply/Download again, it prompts that the download is successful and restart.

1	Serial Number 105302115	Device GT200-MT-DN	IP Address 192.168.0.30	MAC Address 64-ea-c5-16-08-43	Version 1.5
	Selected	Re	fresh	Cancel	







6 Working Principle

6.1 Data Exchange

GT200-MT-DN has two data buffers, one is sending buffer. the other is receiving buffer.



6.2 Terminating Resistor

In the case of high baud rate (1M, 500k), the CAN network needs to connect a 120Ω terminal resistor at the two farthest ends of the network.

7 DeviceNet Network Configuration Instructions (DeviceNet Adapter)

7.1 I/O Configuration

The configuration instructions in AB PLC when GT200-MT-DN is used as a DeviceNet adapter.

I/O input:

DeviceNet I/O input bytes can be configured as 8, 16, 32, 48, 64, 72, 96, 112, 160, 192, 224 bytes.

I/O output:

DeviceNet I/O output bytes can be configured as 8, 16, 32, 48, 64, 72, 96, 112, 160, 192, 224 bytes.

7.2 DeviceNet Parameters



Input Bytes: DeviceNet I/O connection input bytes.

Output Bytes: DeviceNet I/O connection output bytes

The above two parameters must be consistent with the configuration input/output bytes in the DeviceNet scanner scan list of configuration software such as RSNetWorx, otherwise the connection will fail.

Keep Latest Data: "Keep Latest Data" means to keep the latest updated data of the disconnected side network, and it is not cleared.

