DeviceNet/PROFIBUS DP Gateway GT200-DPM-DN

User Manual

REV 1.2







User Manual

Catalog

1 Product Overview	3
1.1 Product Function	3
1.2 Product Features	3
1.2 Technical Specification	3
2 Hardware Descriptions	5
2.1 Product Appearance	5
2.2 Indicators	6
2.2 LED Display	7
2.3 Configuration Button	7
2.4 Interface	7
2.4.1 DeviceNet Interface	7
2.4.2 PROFIBUS DP Interface	8
2.4.3 RS-232 Interface	8
2.4.4 DIP Switch	9
3 Working Principle	10
4 Quick Start Guide	11
5 PROFIBUS DP Configuration Instructions	12
6 DeviceNet Network Configuration Instructions	24
6.1 EDS Register	24
6.2 DeviceNet Parameter Information	30
6.3 Configure the PLC I/O Scan	
6.4 Select Online Path	
7 Installation	39
7.1Machine Dimensions	
7.2 Installation Method	39

1 Product Overview

1.1 Product Function

The gateway GT200-DPM-DN can connect DeviceNet Master with PROFIBUS DP Slave, and establish the communication between them. It supports multiple PROFIBUS slave devices to connect to the DeviceNet network. It acts as a master at the side of PROFIBUS DP and a slave at the side of DeviceNet.

1.2 Product Features

➢ Wide Application: establish stable connection between PROFIBUS DP network and DeviceNet network. Such as: bi-directional data exchange between Rockwell, Omron DeviceNet master PLC and PROFIBUS DP slave devices.

Easy to Use: no need to know the detailed technology of PROFIBUS DP and DeviceNet, 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 DeviceNet data area, then establish transparent transmission between them.

1.2 Technical Specification

[1] PROFIBUS DP/V0 communication capability, in accordance with EN50170 and JB/T 10308.3-2001;

Measurement and control of digital data communication in industrial control systems Fieldbus - Part 3: PROFIBUS specification;

[2] 2.5KV photoelectric isolation on PROFIBUS DP interface and DeviceNet interface;

[3] Acts as only server at the side of DeviceNet, and support Poll I/O;

[4] The DeviceNet port supports input bytes 48, 96, 128, 160, 200 and 240 and output bytes 32, 68, 128, 160, 200 and 240;

[5] DeviceNet baud rate: 125K, 250K, 500K, baud rate adaptive;

[6] A plurality of LED status lights indication, easy on-site debugging;

[7] Gateway gets power from DeviceNet, power voltage is DC 11~26V, consumption: <4W;

[8] Temperature: operating $-4^{\circ}F \sim 140^{\circ}F(-20^{\circ}C \sim 60^{\circ}C)$; Humidity: 5 to 95% (No Condensing);

[9] External dimensions (W*H*D): 1.57 in*4.92 in *4.33 in (40mm*125mm*110mm);

[10] Installation: 35mm rail;

SST@M

WWW.SSTCOMM.COM



[11] Protection Level: IP20;





2 Hardware Descriptions

2.1 Product Appearance



User Manual

2.2 Indicators

PROFIBUS DP network status lights (COM, SYS)

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

The RS-232 port LED SE (TX, RX)

Indicator state	Description
TX Off	Serial port is not transmitting data
TX Red blinking	Serial port is transmitting data
RX Off	Serial port is not receiving data
RX Green blinking	Serial port is receiving data

DeviceNet module status indicator DN(MS)

Indicator state	Description	
Off	May be no power supply or a bad light Work normally	
Always Green		
Green blinking	Not properly configured, or in automatic baud rate	
	listening state	
Red blinking	Recoverable fault	
Always Red	Unrecoverable fault	
Red Green blinking	Self-testing is ongoing	



User Manual

DeviceNet Network status indicator DN(NS)

Indicator state	Description
Off	DeviceNet circuit is not powered
Green blinking	Device is online but did not establish the connection
Always Green	The device is online and has established a connection
Red blinking	One or more I/O connections have been timeout
Always Red	The device detects unrecoverable faults and cannot
	communicate, such as there is repetitive DeviceNet
	address on net.

2.2 LED Display

The main contents include: LED display DeviceNet address during normal operation, dynamic display the DeviceNet address the high, low and DeviceNet baud rate during configuration.

"12" 25" means DeviceNet baud rate is 125K; "25" 50" means DeviceNet baud rate is 250K; "AU" Uo" means DeviceNet baud rate is automatic baud rate status.

2.3 Configuration Button

Button is used to set DeviceNet address and DeviceNet baud rate sets as follows:

Long press the button for more than 3s to enter the DeviceNet address setting status, first set DeviceNet address high bit, long press to confirm, and then set low bit. Press and hold the button more than 3s to save the new settings address and enter the DeviceNet baud rate setting state. Click the button, the baud rate switches between 125K, 250K, 500K and Auto. Finally, long press the button for more than 3s to confirm all settings. 15s with no operations are deemed to quit, cancel all the previous changes.

2.4 Interface

2.4.1 DeviceNet Interface

DeviceNet side of the open five-pin connector:



User Manual



SHIELD

Pin	Wiring
1	GND(24V)
2	CAN_L
3	shielding
4	CAN_H
5	+24V

2.4.2 PROFIBUS DP Interface

PROFIBUS DI	P wiring	instructions	as shown be	low:

Pin	Wiring	
1	NC (Not connected)	
2	NC	
3	PROFI_B (Must be connected), Positive	
4	RTS	
5	GND	
6	PROFI_5V	
7	NC	
8	PROFI_A (Must be connected), negative	
9	NC	

2.4.3 RS-232 Interface

Configure the port, connect to a computer, GT200-DPM-DN configuration parameters can be modified by the PROFIBUS DP configuration software SyCon. See the chapter 5 of configuration steps.



Note: this port RX, TX and GND refers to the PC serial port RX (pin 2), TX (pin 3) and GND (pin 5).

2.4.4 DIP Switch

A total of eight bit DIP switch (standby), bit1 and bit2 must be set to "OFF", bit 3 and bit4 are set to "ON". Bit 5, 6, 7 and 8 are reserved bits, which needs to be set to "OFF" during configuring and communication.



User Manual

3 Working Principle

By creating the data conversion between the DeviceNet and PROFIBUS DP through mapping, there are two data buffers in the GT200-DPM-DN, one buffer is DeviceNet network input buffer, the other is DeviceNet network output buffer. The gateway will write the data from the PROFIBUS DP slave to the network input buffer , output to the corresponding DeviceNet Master device by POLL I/O write command. At the same time gateway take the data from the network output buffer and write to the PROFIBUS DP slave.

Input buffer	Output buffer

GT200-DPM-DN acts as a DeviceNet node, as well as PROFIBUS DP master node which occupies the node address. After both sides of the network data communication are established, the DP is disconnected from the network, and then the gateway confirm the error and all the data is cleared.

User Manual

4 Quick Start Guide

The followings are several steps which can help you quickly apply your GT200-DPM-DN:

1) Follow the configuration steps to configure the gateway. For more information, refer to chapter 6.

2) Setting the DeviceNet address and baud rate by the front button of the gateway, you can refer to chapter 2.3.

3) Wiring correctly in accordance with the chapter 2.4 wiring instructions.

4) Importing EDS file into the DeviceNet configuration software such as RsNetWorx to configure the DeviceNet network. Users can configure the DeviceNet scan command. The DeviceNet data is mapped to PROFIBUS DP. For more information, refer to chapter 6.

5) Importing the GSD file of the PROFIBUS DP slave devices into the PROFIBUS DP configuration software SyCon. Properly select and configure the address of the PROFIBUS DP slave devices and the bytes of the input and output bytes and downloading to the GT200-DPM-DN. You can refer to chapter 5 for detailed information.



GT200-DPM-DN DeviceNet/PROFIBUS DP Gateway User Manual

5 PROFIBUS DP Configuration Instructions

The following explains how to use the PROFIBUS DP master station software SyCon to configure the GT200-DPM-DN.

1. Install SyCon software, double click autorun.exe application will pop up the following interface:

System Software V2.950					
*					
System installatio	n				
Documentation					
Install Acrobat Re	ader				
Exit					

Select "System installation"



User Manual

tallation. n settings and c	hoose (Next).
	Language
yes no	<u>E</u> nglish
	German
	French
	Portuguese
	n settings and cl

Select "yes"

installation settings	î î	Language
Do won want to install the Sweter Configurator SwCon?	yes no	<u>E</u> ngli sh
Do you want to install the SyCon integrated OPC Server?	ГГ	German
		French
		Portuguese
our selection results in the		

Select "yes"

User Manual

)o you want to install the System Configurator SyCon? V C	
o wow want to install the SwCon integrated OPC Server?	lish
Do you want to install the Stand-Alone OPC Server /	man
<u> </u>	nch
Porta	Iguese

Select "yes"

Dear User, this program will guide you through the instal Please answer the questions concerning the installation :	llation. settings and o	hoose (Next).
Installation settings		Language
Do you want to install the System Configurator SyCon?	yes no	English
Do you want to install the SyCon integrated OPC Server?		German
Do you want to install the Stand-Alone OPC Server /		
Do you have a license code?		<u>F</u> rench
		Portuguese
Your selection results in the		4
installation of the System Configurator SyCon as the basi OPC Server and the Stand-Alone OPC Server / Busserver	c version, th	ie SyCon integrated

Select "no", Note: After the software is installed, call our technical support and contact us, we will e-mail the serial number to the customer.

Select "English"

User Manual



Click "Next"

Con Application Setu	p	
elect Components		
Select the components to install.		
PROFIBUS		16347 K
CIF Device Driver		648 K
☑ DeviceNet		7892 K
✓ InterBus		34849 K
AS-interface		4317 K 🚽
🔽 CANopen		11564 K 🗸
Destination Folder		
C:\Program Files\Hilscher\SyCo	on	Browse
Space Required on C:	68800 K	
Space Available on C: IlShield	16139312 K	Disk <u>S</u> pace
	< <u>B</u> ack	Next > Cancel

Keep the default value, Click "Next"

User Manual

SyCon Application Setup		
Choose device description files locati	on	
Setup will install the device description file	es in the following folder.	
Destination Folder		î
C:\\Application Data\Hilscher\SyCon	\Fieldbus	Browse
istallShield		
	< <u>B</u> ack <u>N</u> ex	t> Cancel

Select the installation path, Click "Next".

Select Program Folder		
n lease select a program folder.		
Setup will add program icons to the Progra	m Folder listed below. You may typ	e a new folder
name, or select one from the existing folde Program Folders:	is list. Llick next to continue.	
SuCon Sustem Contigurator		
Joycon system conigurator		
Existing Folders:		
Accessories		
Administrative Tools		
Liames		
PL-2303 USB-Serial Driver		
Startun		
WinBAB		
1		
allShield		
		-
	< <u>B</u> ack <u>N</u> ext >	Cancel

Click "Next"

User Manual



Click "Next"



Click "Next"

User Manual



Click "Next"



Now the installation is completed.

2. Click Start -> All Programs -> Open SyCon System Configurator->SyCon:

User Manual

🚰 SyCon - [try.pb]					
🖫 Eile Edit View Insert Online Settings	<u>T</u> ools <u>W</u> indow <u>H</u> elp				_ 8 ×
PDD					
	MasterO Station address DP Master	0 Com-Ax/Bx/Cx-DPM			
	Slavel Station address DP Slave	1 PKV30-DPS			
For Help, press Fi			_	FROFIBUS	Config Mode

3. Click File-> New, create a new file: select "PROFIBUS", as shown below:

AS-Interface	<u>O</u> K
DeviceNet Ethernet / Protocol InterBus	Cancel
PROFIBUS	

4. Add master: click on the icon in the second line Fieldbus toolbar — Insert master, to add the master :

💣 SyCa	n – [Unna	med2]				
E File	<u>E</u> dit <u>V</u> iew	Insert Online	<u>S</u> ettings	Tools	<u>W</u> indow	<u>H</u> elp
		1				
-t	2 PDD					

At the bottom of blank interface in the software, mouse will displays "M", Click the left mouse button, pop up the page of "insert master", Select "COM-AX/BX/CX-DMP ", click on the "Add >>":



User Manual

CIF60-PB	A 44 A	COM-Ax/Bx/Cx-	-DPM	ALC: NOT THE REAL PROPERTY OF
CIFFSI-FMS	Haa //			Cancel
COM-Ax/Bx/Cx-DPM COM-DPM / PKV2O-DPM COM-FMS COM-FMS E	Add All >> << R <u>e</u> move All			
COPRO50-PB EC1-DEB-DPM NetNode 30-DPM-COM	<< <u>R</u> emove	Ī		
/endor name Hilscher GmbH		Station	0	

Click "OK", the master has been added to the bus, as shown in the following figure:

🚰 SyCon – [Unnamed2]				
🚡 File Edit View Insert Online Settings Icols Window Melp				- 8 >
🐔 📲 😒 POD				
Master()]		
Station address	0			
DP Master	COM-Ax/Bx/Cx-DPM			
	10 A ¹			
For Help, press F1			PROFIBUS	Config Mode

5. Configuring the DP master: right-click the added master, select "Master Setting", as shown below:

User Manual

	Chatter	Cat	Ct+1+V	
	Station	cu <u>c</u>	COTIX COTIX	
	UP Mast	<u>C</u> obà	Ltr1+L	
		P <u>a</u> ste	Ctrl+V	
33		Delete	Ctrl+L	
	Sla	Replace	Ctrl+R	
GENERAL	Station			
	DP SLav	Master Settings.		
		<u>M</u> aster Configur:	ation	
		<u>G</u> roup Membershij	9.	
	L.,			

Parameter to user interface Startup behaviour after s Automatic release of t C Controlled release of	ystem initialisation he communication by the device the communication by the application pro
User program monitoring Watchdog time	000 ms
Parameter to process data in Addressing mode Byte addresses Word addresses Storage format (word modul Big Endian (MSB-LSB) Con MS	Handshake of the process data Mandshake of the process data Bus synchronous, device control: Buffered, device controlled No consistence, uncontrolled Buffered, host controlled
C Little Endian (LSB-MS	C Bus synchronous, host controlle. C Buffered, extended host controll

As shown above, the user must select "Buffered, host controlled" under the "Handshake of the process data", about other settings users can set according to the actual requirements.

6. Import GSD files: copy the DP slave GSD file to the system directory under the "System Tray: \ Documents and Settings \ All Users \ Application Data \ Hilscher \ SyCon \ Fieldbus \ PROFIBUS \ GSD". For example, "C: \ Documents and Settings \ All Users \ Application Data \ Hilscher \ SyCon \ Fieldbus \ PROFIBUS \ GSD." Note: This folder is hidden, need to be set in the "Tools \ Folder Options-View Properties", and show all hidden files and folders.

User Manual

7. Add slave: click the second tool in second line of the Fieldbus toolbar — Insert slave, to add the slave :

ŕ	S y Co	n –	Unna	ned2]				
2	File	<u>E</u> dit	<u>V</u> iew	Insert	Online	Settings Tools	<u>W</u> indow	<u>H</u> elp
Г			12					
-			· ·					
-	.(*Ľ)	PD	2					

At the bottom of the blank interface of software , mouse will displays "S", Click the left mouse button, pop up the page of "insert slave", Select your slave, click on the" Add >> "(Here using "PKV30-DPS" as an example):

Insert Slav	ve					×
-Slave Filter Vendor	r	-	Master 0 / 1	COM-Ax/Bx/Cx-DPM	•	<u>o</u> k
Slave G	ateway	•				Cancel
Available sla	ives		Selected slav	es		
PKV3U-DPS		Add All >> Add All >> << Remove All	PKV30-DPS			
Vendor name Ident number GSD file GSD Revision	Hilscher GmbH Ox7503 HIL_7503.GSD Version 2.010		Station Description	1 Slave1		

Click "OK", the slave has been added to the bus, as shown in the following figure:

Note: GT200-DPM-DN can connect up to 32 DP slaves.

The File Edit Yiew Insert Online Settings Tools Hindow Help	ē ×
Master0	
Station address 0	
DP Master COM-Ax/Ex/Cx-DPM	
📭 🔝 Slavel	
Station address 1	
BP Slave PKV30-DPS	
22	



User Manual

Double click the slave, the following interface will pop up, correctly set the slave address and DP input and output the number of bytes in this interface:

General Device	PKV30)-DPS			Stati	on address	1	QK
Descripti	ion Slav	e1						Cancel
V Activ	ate devic e watchdo	e in actu g control	ial confi	guration GSD f	ile H	IL_7503.GSD		<u>P</u> arameter Data
lax. lengt	h of	3	368 Byte	Lengt	h of in-	/output	0 Byte	DPV1 Settings
Max. lengt Max. lengt Max. numbe	h of inpu h of outp r of modu	it 2 vut 2 iles	244 Byte 244 Byte 24	Lengt Lengt Numbe	h of inp h of out r of mod	ut data put data ules	O Byte O Byte O	Assigned master Station address O MasterO
Module			Inputs	Outputs	s In/Out	Identifie	er 🔥	0 / COM-Ax/Bx/Cx-DPM 🔻
blank sp	ace (0x0)0)				0x00		
l byte :	input co	n	l Byte			0x90		Actual slave
2 byte :	input co	n	2 Byte			0x91		Station address 1
3 byte :	input co	m	3 Byte			0x92		Slavel
4 byte :	input co	m	4 Byte			0x93	~	1 / PKV30-DPS
0)			0.0-+-		10	0.407		
Slot Idx	Module	Symbol	Type	I Addr.	I Len.	Type 0 Add	lr. O Lei	n. <u>A</u> ppend Module
								<u>R</u> emove Module
								Insert Module
								Predefined Modules
								and the second s

Click OK to confirm the changes and save.

- 8. Save the configured project file.
- 9. Download configuration:

It is the serial port that this product used to configure the DP, in the "Online" menu of the menu bar, select "Download" to download the configuration. The mouse should point to the DP master.



6 DeviceNet Network Configuration Instructions

Users need to install the *.EDS file to DeviceNet configuration software, then you can configure GT200-DPM-DN through network configuration software.

6.1 EDS Register

EDS (Electronic Data Sheet) is comprehensive description which supports DeviceNet network function. It equals to equipment's driver of Windows. Users need to install EDS files to DeviceNet network configuration software, such as RsNetWorx and so on, and then the configuration can be going on through network configuration software.

Here we take Rockwell's RsNetWorx for example (edition 4.12.0), and explain how to install. For further details, please refer to the network configuration software instructions.

Step1: Create a new network configuration profile

Step2: Select EDS operation guide, select "Tools" and then "EDS-Wizard", you will see that:



User Manual

B#DeviceNet - RSNetWorx for D	DeviceNet	🗖 F 🔀
File Edit View Network Device Diagnostics	s Iools Help	5 8
(€, Q, [E] ¹ E ¹ E ¹ F ² ² ³ E ¹ ³ E ¹	EDS Wizard	
🖆 😅 🕶 🔛 🎒 X 🖻 🛍 <table-cell></table-cell>	Node Commissioning	
Hardware 3	Eaulted Address Recovery Vizard	*
🖃 🌔 DeviceNet	Quick Connect	
E Category		
+ Barcode Scanner		
🗉 🙋 Communication Adapter		
+ DPI to DeviceNet		
Dodge EZLINK		
General Purpose Discrete I/0 General Purpose Discrete I/0		
+ D Human Machine Interface		
🕀 🕐 Inductive Proximity Switch		
H Limit Switch		
🖲 🜔 Motor Starter		
Photoelectric Sensor Packwall Automation missellened		
+ Cockwell Automation miscellaned		
🖲 👘 Smart MCC		
Specialty I/0 Vendor		
🗄 🌔 ABB Industrial Systems		
Hettler-Toledo, Inc.		
Rockwell Automation - Dodge		
Rockwell Automation - Electro-0		
Rockwell Automation - Kellance Rockwell Automation/Sprecher+So		
🗄 🌔 Shanghai Sibotech Automation Co		
		-1
<	M A Brank Scrandobart Master/Slave Configuration Dispersedice	
		<u></u>
Message Code Date Des	scription	
a 56		
S		
Σ		<u>></u>
Execute the Electronic Data Sheet installatio	on wizard.	Offline



User Manual



Step3: Select "Next", as follow:



Step4: Install gateway GT200-DPM-DN:

Shown as above, select "Register an EDS file", as follow:



User Manual

Please register GT200-DPM-DN.EDS file we provided, according to the place where you save EDS file, and select the file.

Electronic Dal Software appl	ta Sheet file(s) will be added to your system for use in Rockwell ications.	
	Select an EDS file 查找范围①: 🔁 🔹	? • • • • •
1	GT200-DPM-DN SSTCOMM	
i	File Name (N):	Open(0)

Step 5: Confirm register file you choose

User Manual



Click "NEXT":



Step 6: Select the icon.



User Manual

Following network configuration software will prompt you the equipment category in equipment storehouse, you may choose icon in this process.



Here, the device has successfully registered to the icon library location of configuration software's equipment storehouse.



User Manual



Then, you should connect gateway GT200-DPM-DN to DeviceNet network, click on "SCAN" button of RsNetWorx, or select "Network-Online" in menu bar, your gateway will be scanned by system and identified exactly.

6.2 DeviceNet Parameter Information

You can configure device Online in the RsNetWorx. Or you can configure device Offline, then go online. For more information, refer to RsNetWorx manual.

The following configuration is in Offline state.

User Manual

From the Device Library on the left, the "Vendor"—"SST Automation" directory, drag the "DeviceNet / PROFIBUS DP Gateway" to the editing area. Select the address number of the actual device address, and then double-click the device, you will see the following screen:



You can also modify device address in this interface. Click "Parameter" to enter the parameter interface, display the following figure:



User Manual



This is the DeviceNet parameter screen shot in the RsNetWorx network configuration software.

Network In bytes: This parameter indicates the number of DeviceNet input bytes. Options include 48 bytes, 96 bytes, 128 bytes, 240 bytes. The default setting is 96 bytes.

Network Out bytes: This parameter indicates the number of DeviceNet output bytes. Options include 32 bytes, 68 bytes, 128 bytes, 240 bytes. The default setting is 68 bytes.

Note: Users may need to choose input bytes and output bytes according to the actual requirements. After modification of parameter 1 and 2, the gateway needs to be restarted to take the settings effect. Besides, modify these two parameters, users need to pay attention to set the same parameters to configure the 1756-DNB module DeviceNet Master Module Scan List. And the download will take effect after power-on restart.

Swapping Data: This parameter indicates gateway swapping mode when the data exchanged in the two networks. Options include No swapping, Two bytes swapping, Four bytes swapping. Download the parameters take effect immediately, power-down also can be saved



User Manual

Status DWord: When you select "Yes", that means that the DeviceNet input area first 4 bytes to store up to 32 PROFIBUS DP slave communication status. Each bit represents a PROFIBUS DP slave communications status. "0" indicates the GT200-DPM-DN and the corresponding PROFIBUS DP Slave Communication exception, "1" indicates that GT200-DPM-DN and the corresponding PROFIBUS DP Slave Communication normal.

6.3 Configure the PLC I/O Scan

This section briefly describes how to configure the RSLogix 5000 +1756 / DNB I / O scan parameter table by RsNetWorx.

PLC platform: ControlLogix5555- Rockwell DeviceNet interface cards: 1756DNB Configuration software: RsNetWorx

Step one: Open the Property Page dialog box of a 1756 DNB, enter the "Scan list" tag page:





User Manual

Step 2: In the above interface, select the device to join the scan list, and then click the arrow (>) button, and then you can see:

3756-DNB/A			? 🔀
General Module Scanlist	Input 0	utput ADR	Summary
Availa <u>b</u> le Devices:	<u>S</u>	canlist:	
		01, Devicel	let/Profi
	<		
	>>		
	<		
🔽 Automap on Add		▼ Node Acti	ve
pload from Scanner.		Electronic Ke	y: pe
Jownload to Scanner.		Vendor Product C	ode
dit I/O Parameters		Major <u>K</u> ev	or higher
ОК	Cancel	Apply(A)	Help

Equipment enters into the 1756-DNB DeviceNet master scan list.

If the customer is to learn how to configure the DeviceNet, you can click on the "Edit I / O Parameters ..." to modify, or according to the default configuration, click OK, all devices are added to the scan list.

The following figure shows the dialog box that appears after clicking the "Edit I / O Parameters ...", where users can set I / O data input and output trigger mode: polling, sent periodically, at every change. You can also select the input / output byte.

Note: the number of bytes of input and output is a key! PLC / DeviceNet master connection will verify the configuration of input and output bytes and the actual device input and output response the number of bytes, if they are not consistent, it will not be able to establish a DeviceNet I / O connections, and therefore cannot be input and output.

6.		
1756-DNB/A		<u>? X</u>
General Module Scanlis	t Input Output ADR Summar	[w]
Available Devices:	Scanlist:	
) 01, DeviceNet/Profi	
	<	
	N	
	Edit I/O Paramete	rs : 01, Devi 🕐
	Strobed;	Change of State / C
	Input Bytes	G Change of State C Cyclic
Automap on Add	Use Output Bit 🔽	*
10.000		Input
pload from Scanner		
pload from Scanner journload to Scanner.	- ₩ golled	Output
pload from Scanner ownload to Scanner dit 1/0 Parameters	✓ Polled Input II2 → Bytes	Output Digital Neartheat Rate: 250 asec
pload from Scanner lownload to Scanner idit I/O Parameters	✓ Polled Input 112 → Bytes Qutput 112 → Bytes	Output D Bytes Neartheat Rate: 250 asec

The third step: Make sure the input and output mapping.

Users can view the Input and Output Properties page, here is where device's DeviceNet I / O information on how to set memory data associated with the 1756DNB. Generally choose AuotMap.



User Manual

	lype	Size	Map	Autollap
01, Devic	eNe Polled	112	1:I.Dat	
				Unmap
				Advanced
<			>	Options
Bite 31 - 0				
Bits 31 - 0 1:I.Data[0]	01, Devi	ceNet/Pr	ofibus-D	P Gateway
Bits 31 - 0 1:I.Data[0] 1:I.Data[1] 1:I.Data[2]	01, Devi 01, Devi 01 Devi	ceNet/Pr ceNet/Pr ceNet/Pr	ofibus-D ofibus-D	P Gateway P Gateway P Gateway
Bits 31 - 0 1:I.Data[0] 1:I.Data[1] 1:I.Data[2] 1:I.Data[3]	01, Devi 01, Devi 01, Devi 01, Devi 01, Devi	ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr	ofibus-D ofibus-D ofibus-D ofibus-D	P Gateway P Gateway P Gateway P Gateway
Bits 31 - 0 1:I.Data[0] 1:I.Data[1] 1:I.Data[2] 1:I.Data[3] 1:I.Data[4]	01, Devi 01, Devi 01, Devi 01, Devi 01, Devi 01, Devi	ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr	ofibus-D) ofibus-D) ofibus-D) ofibus-D) ofibus-D)	P Gateway P Gateway P Gateway P Gateway P Gateway P Gateway
Bits 31 - 0 1:I. Data[0] 1:I. Data[1] 1:I. Data[2] 1:I. Data[3] 1:I. Data[4] 1:I. Data[5] 1:I. Data[5]	01, Devi 01, Devi 01, Devi 01, Devi 01, Devi 01, Devi	ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr	ofibus-D ofibus-D ofibus-D ofibus-D ofibus-D ofibus-D	P Gateway P Gateway P Gateway P Gateway P Gateway P Gateway
Bits 31 - 0 1:I. Data[0] 1:I. Data[1] 1:I. Data[2] 1:I. Data[3] 1:I. Data[4] 1:I. Data[5] 1:I. Data[6] 1:I. Data[7]	01, Devi 01, Devi 01, Devi 01, Devi 01, Devi 01, Devi 01, Devi	ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr ceNet/Pr	ofibus D ofibus D ofibus D ofibus D ofibus D ofibus D ofibus D	P Gateway P Gateway P Gateway P Gateway P Gateway P Gateway P Gateway

Step 4: Download the appropriate scan list to 1756 DNB. Follow the prompts.

Step 5: Preparation of the corresponding program, download to ControlLogix, PLC state to run. If it is in the programming state, the PLC DeviceNet I / O scan does not output data (IDLE), only input data.

Note: When 1756 DNB is developing PLC program, one run control bit of 1756 DNB should be set to 1. If 1756 DNB module rack is 1, it indicates "Local:1:O.CommandRegister.Run" Ladder program example:





GT200-DPM-DN DeviceNet/PROFIBUS DP Gateway User Manual

6.4 Select Online Path

From offline to online, users need to select the path.



According to the actual configuration path, the following figure shows the icon with a serial (DF1).



User Manual



For more information, refer to RsNetWorx manual.





7 Installation

7.1 Machine Dimensions



7.2 Installation Method

35mm DIN rail mounting



User Manual



