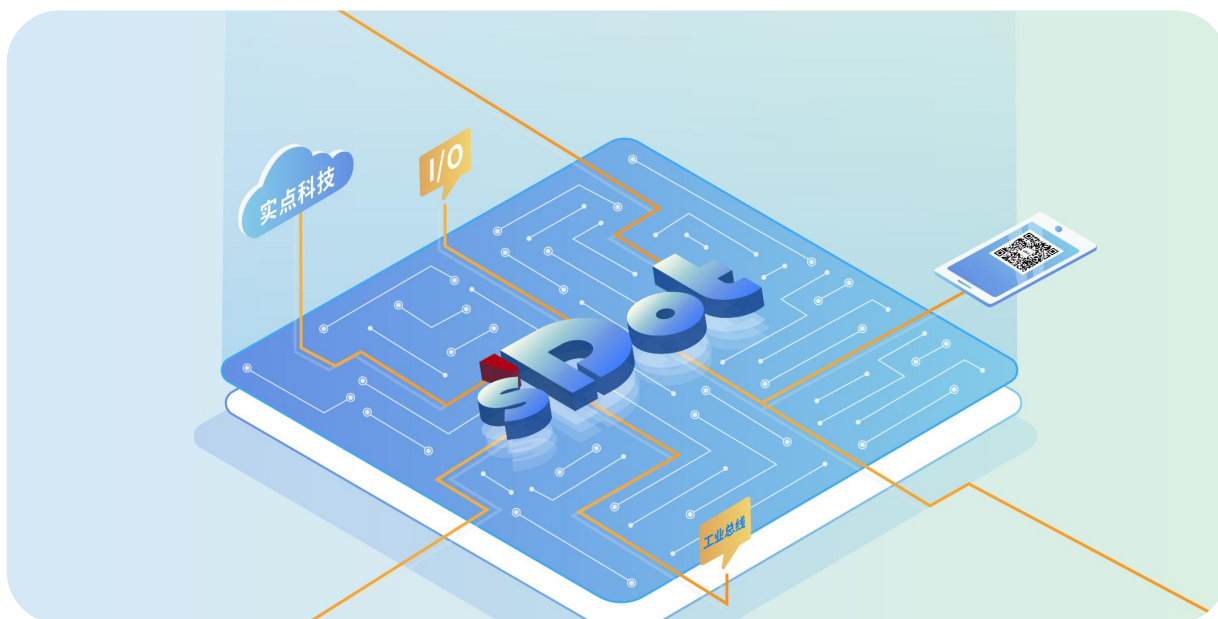




CC-Link

CC3 Series Integrated I/O

User Manual



Nanjing Solidot Electronic Technology Co., Ltd.

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1 Product Overview

1.1 Products

The CC3 series of Integrated I/O modules with CC-Link bus interface is a CC-Link slave device with standard IO architecture and is compatible with CC-Link networks from multiple vendors, providing users with a variety of options for high-speed data acquisition, optimized system configuration, simplified field wiring, and improved system reliability.



1.2 Product Characteristics

- Input Compatibility Function
Digital input signals compatible with NPN and PNP
- Ultra-thin
Height of only 35 mm
- easy diagnosis
Innovative channel indicator design, close to the channel, channel status at a glance, easy to detect and maintain
- easy configuration
Simple configuration, supports all major CC-Link masters.
- Ease of use assembly line
DIN 35 mm standard rail mounting
- Adopt screw-fixed terminals, stable and fast wiring

2 Destination Rules

2.1 Destination Rules

CC **3** - **16** **16** **A**
(1) **(2)** **(3)** **(4)** **(5)** **(6)**

Serial number	Meaning	Description of values		
(1)	Bus protocol	CC: Abbreviation for CC-Link protocol.		
(2)	Product Series	3: Integrated I/O		
(3)	I/O Type	Default: Digital		
(4)	Input Signal Points	16: 16 channel input	32: 32-channel input	00: 0 channel input
(5)	Number of output signal points	16: 16-channel output	32: 32-channel output	00: 0 channel output
(6)	Signal Type	A: NPN	B: PNP	Default: NPN & PNP compatible

2.2 Model List

Model number	Product Description
CC3-1616A	16-channel digital input/output module, NPN type
CC3-0032A	32-Channel Digital Output Module, NPN Type
CC3-3200	32-Channel Digital Input Module, NPN & PNP Compatible
CC3-1616B	16-channel digital input/output module, PNP type
CC3-0032B	32-Channel Digital Output Module, PNP Type

3 Product Parameters

3.1 Common Parameter

Interface parameter					
Bus protocol	CC-Link				
Station type	Digital Module: Remote I/O Station				
Number of occupied stations	Digital module: 1 station				
Data transmission medium	CC-Link dedicated cable (3-core shielded cable)				
Transmission rate	Five speeds can be set 10 Mbps / 5 Mbps / 2.5 Mbps / 625 kbps / 156 kbps				
Transmission distance	10 Mbps	5 Mbps	2.5 Mbps	625 kbps	156 kbps
	≤100 m	≤160 m	≤400 m	≤900 m	≤1200 m
Technical Parameters					
Configuration	Through the master				
Power supply	24 VDC (18V~36V)				
Electrical isolation	500 VAC				
Weights	170 g				
Sizes	100 x 96 x 35 mm				
Operating temperature	-10°C~+60°C				
Storage temperature	-20°C~+75°C				
Relative humidity	95%, non-condensing				
Protection class	IP20				

3.2 Digital parameter

Digital input	
Rated voltage	24 VDC (18V~30V)
Number of signal points	16, 32
Signal Type	NPN/PNP
"0" signal voltage (PNP)	-3~+3 V
"1" signal voltage (PNP)	15~30 V
"0" signal voltage (NPN)	15~30 V
"1" signal voltage (NPN)	-3~+3 V
Input Filtering	No
Input Current	4 mA
Isolation method	Optocoupler Isolation
Isolated Withstand Voltage	500 VAC
Channel Indicator Lights	Green LEDs
Digital output	
Rated voltage	24 VDC (18V~30V)
Number of signal points	16, 32
Signal Type	NPN/PNP
Load Type	Resistive loads, inductive loads
Single channel rated current	Max: 500 mA
Common terminal current	Max: 10 A
Port protection	overcurrent protection
Isolation method	Optocoupler Isolation
Isolated Withstand Voltage	500 VAC
Channel Indicator Lights	Green LEDs

4 Panel

4.1 Product mix

Name and function description of each part of the product

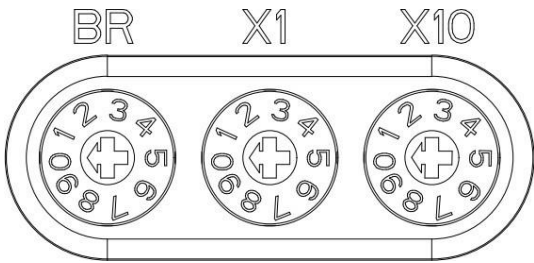


Serial number	Name (of a thing)	Description
①	Terminal Dust Cover	Can be opened directly
②	Rotary switches and signs	Setting the transmission rate and station number (baud rate and address dialing)
(iii)	System identification, indicator lights	Indicates power supply and module operation status
④	module identification	Labeling product model, channel type
⑤	Guideway slot	For DIN 35 mm rail fixing
(vi)	Bus interface	Shrapnel type terminal block
(vii)	Channel type identification	DI digital input DO Digital Output
⑧	Channel indicators, signs	Indicates the corresponding channel signal status
⑨	Wiring terminal	Screw-in terminal blocks
⑩	Snap	Fixed guide clips

4.2 Rotary switch

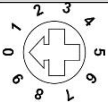
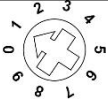
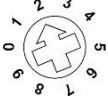
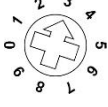
Rotary Dial Description

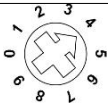
To use CC3 series integrated I/O module as a remote I/O station in CC-Link network, you need to set its transmission rate and station number in the network. The transmission rate and station number are set using a ten-digit rotary dip switch as shown below:



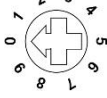
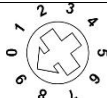
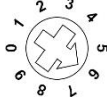
Markings	Meaning	Realm	
BR	transmission rate	A ten-digit rotary switch is used, with settings of 0, 1, 2, 3, and 4 corresponding to the transmission rate: 156 kbps, 625 kbps, 2.5 Mbps, 5 Mbps, 10 Mbps	
X1	Station number setting digits	Setting value: 0~9	The station number is set to 2 ten-digit rotary switches and the station number is set to 1 to 64. X1 is the low (single) bit dial code, X10 is the high (single) bit dial code, and X10 is the high (single) bit dial code. (Ten) digit dialing code, station number = high digit x 10 + low digit.
X10	Station number set to ten digits	Setting value: 0~6	

Transmission Rate Rotary Dial Setting Diagram

Transmission rate	Dialing code setting	Set value	Transmission rate
BR		0	156 Kbps
		1	625 Kbps
		2	2.5 Mbps
		3	5 Mbps

		4	10 Mbps
--	---	---	---------

Schematic diagram of station number rotary dialing setting

Station number setting	Dialing code setting	Set value	Station number value
X1	single-digit dialing code	0~9	◇1
		0	0
		1	1
	...	...	...
		8	8
		9	9
X10	10-digit dialing code	0~6	◇10
		0	0
		1	10
	...	...	...
		5	50
		6	60

Remarks:

1. Please use a 2mm opening for the one-start or cross-start rotary toggle.
2. If you need to change the station number and transmission rate during the communication process, after setting the new station number and transmission rate, you must re-power on the system for the new settings to take effect.
3. If the transmission rate and station number settings are out of the setting range, the module will have communication error or fail to connect to the master station.

4.3 Indicator light function



Name (of a thing)	Markings	Color	State of affairs	State Description
Power indicator	P	Green	ON	Power supply is normal
			OFF	The product is not powered up or the power supply is abnormal
Operation status indicator RUN	R	Green	ON	The system is functioning normally
			OFF	Operational anomalies (e.g., communication timeout)
Warning indicator	E	Red	Flash	There is an abnormality in the operation of the module (e.g., the transmission rate and station number settings are out of range.), (communication errors, etc.)
			OFF	Module works without anomaly
Input Channel Status Indicator signal light	00 to 1F	Green	ON	Module channels have signal inputs
			OFF	No signal input or abnormal signal input on module channel
Output Channel	00 to 1F	Green	ON	Module channels have signal outputs

Status Indicator signal light			OFF	No signal output or abnormal signal output from ^s module channels
----------------------------------	--	--	-----	---

4.4 Model number and information labeling



Name (of a thing)	Markings	Description
Module Model	CC3-1616A	Module Model
Bus protocol	CC-Link	Bus protocol
Channel Type	16DI+16DO	16 digital inputs + 16 digital outputs
	IN: TYP.4mA (DC24V); NPN/PNP	Input Channel: Current 4mA, Voltage 24V, NPN & PNP compatible
	OUT: Max.0.5A/Ch; NPN	Output channel: single channel current max. 0.5A, NPN type

4.5 Terminal Identification

CC3-1616A/CC3-1616B



Markings	Description
S24V	System Side Power Supply
S0V	
PE	Reserve
COM	Input Common
DI	Digital Input Channels
00~0F	Input channel
F24V	Field Side Power Supply
F0V	
NC	Empty terminal
DO	Digital output channels
10~1F	Output channel

Note: CC3-1616A/CC3-1616B wiring terminals are labeled the same.

CC3-0032A/CC3-0032B



Markings	Description
S24V	System Side Power Supply
S0V	
PE	Reserve
NC	Empty terminal
DOa	Digital output channels
DOb	
00~0F	Output channel
10~1F	
F24V	Field Side Power Supply
F0V	

Note: CC3-0032A/CC3-0032B Wiring terminals are labeled the same.

CC3-3200



Markings	Description
S24V	System Side Power Supply
S0V	
PE	Reserve
COMA	Input Common
COMB	
Dla	Digital Input Channels
Dlb	
00~0F	Input channel
10~1F	
NC	Empty terminal

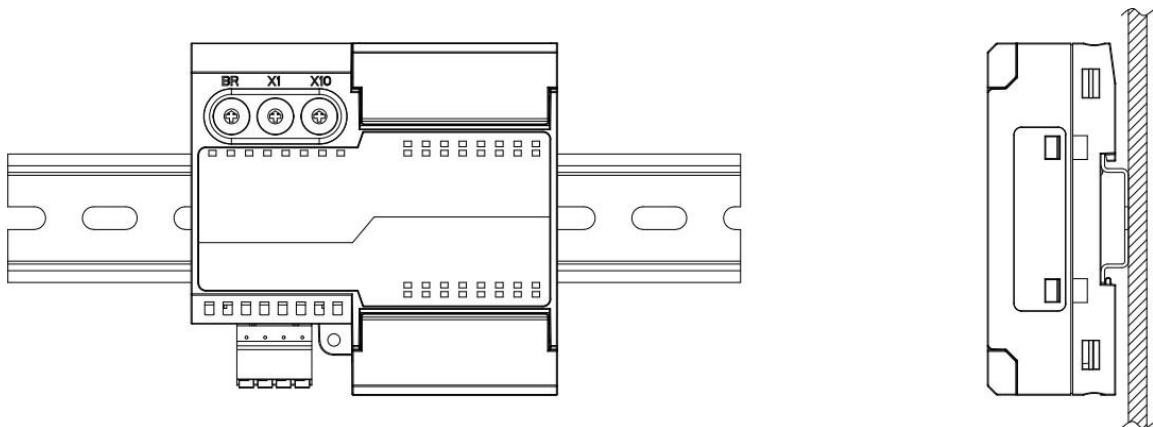
5 Mounting and Disassemble

Precautions for installation\dismantling

- Ensure that the cabinet is well ventilated (e.g., the cabinet is fitted with an exhaust fan).
- Do not install this equipment next to or above equipment that may cause overheating.
- Always install the module vertically and ensure sufficient spacing between the module and the surrounding equipment.
- Be sure to disconnect the power supply when installing/disassembling.

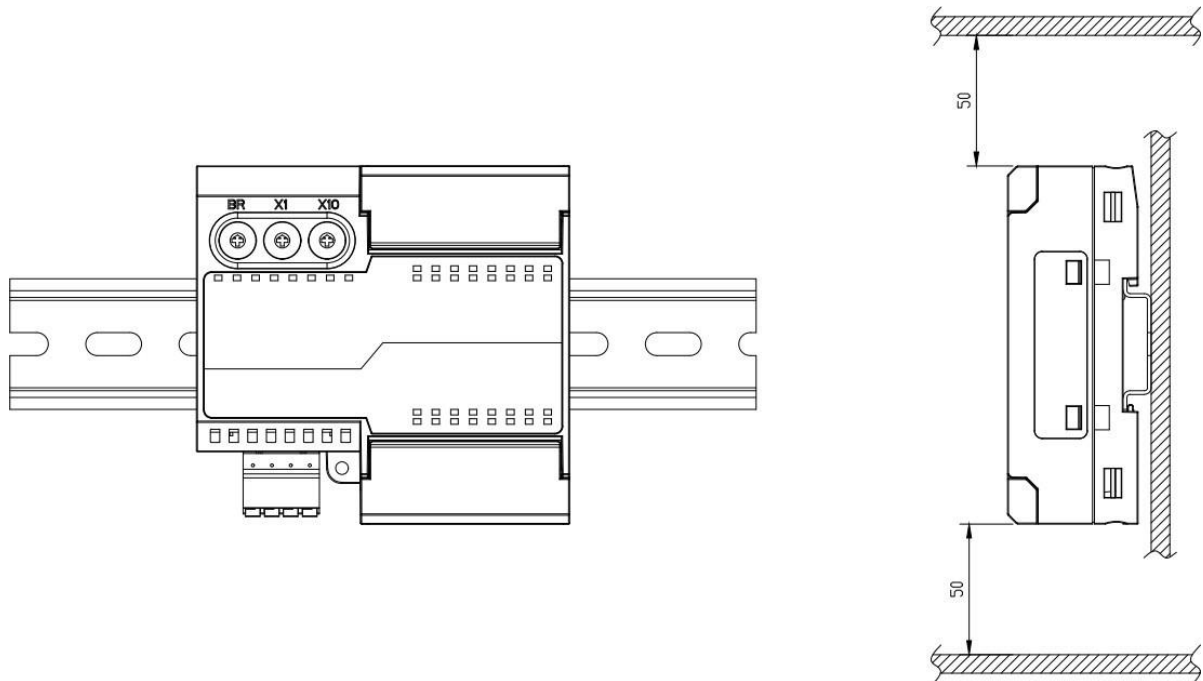
Mounting direction

To maintain proper heat dissipation from the module, be sure to install the module vertically to ensure smooth airflow inside the module.



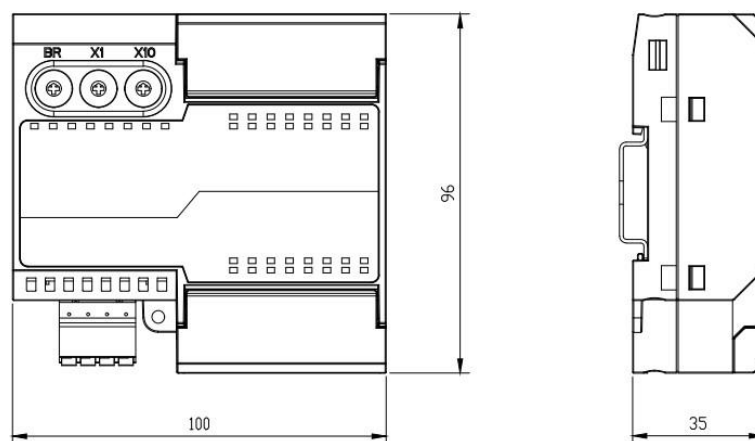
Minimum distance

Module protection class is IP20, need to be installed in the box or cabinet, installation, module and other modules or heat generating equipment, module up and down and other equipment or wiring slot, please follow the minimum spacing shown in the following figure (unit: mm).



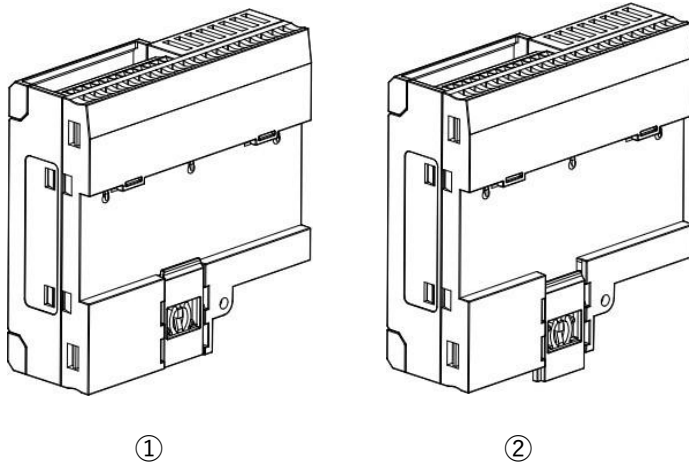
5.1 Overall dimensions

Outline specifications (in mm)



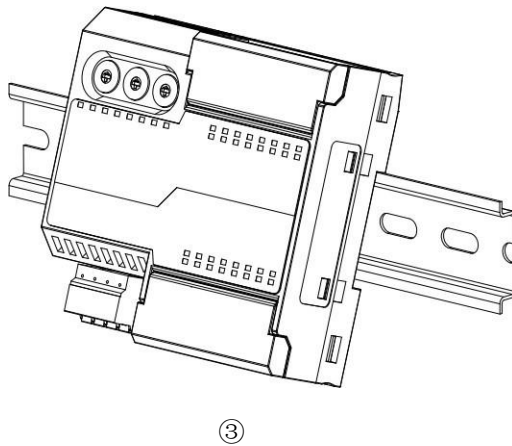
5.2 Installation and disassembly

Mounting

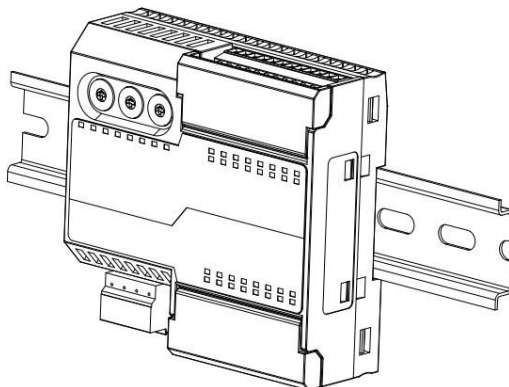


Move

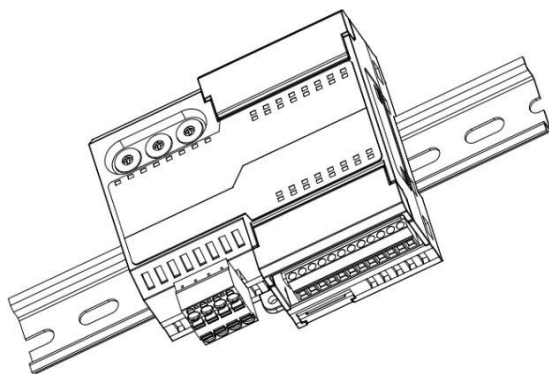
Push the snap on the bottom of the module outward, as shown in Fig. ①, and then push the snap to the position as shown in Fig. ②, and then hear a "click" sound.



Align the upper edge of the module snap with the upper edge of the rail and place the module into the rail as shown in Figure ③.



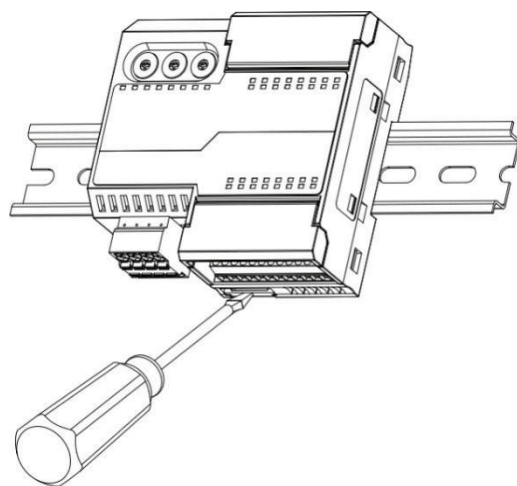
The module placement is shown in Figure④



⑤

Push the snap in the direction of the rail and hear the ringing sound to complete the module installation, as shown in Figure ⑤

Dismantle



⑥

Move

Insert the flat head into the snap and apply pressure in the direction of the module. (Rattle heard.) Remove the module by reversing the procedure for installing the module as shown in Figure ⑥.

6 Wiring

6.1 Wiring terminal

Wiring terminal		
Power and signal line terminals	Extremity	2*20 P
	Wire diameter	24~17 AWG 0.2~1.0 mm ²
Bus interface	Extremity	2*4P
	Wire diameter	24~13 AWG 0.2~2.5 mm ²

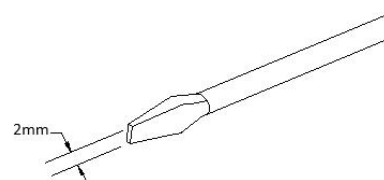
6.2 Wiring instructions and requirements

Power supply wiring precautions

- The module system-side power supply and the field-side power supply are configured and used separately, so do not mix them.
- PE must be reliably grounded.

Wiring Tool Requirements

The terminals are designed with set screws, and the installation and removal of cables can be operated with a one-piece screwdriver (specification: $\leq 2\text{mm}$).



Stripped Wire Length Requirements

Recommended stripping length 6 mm.



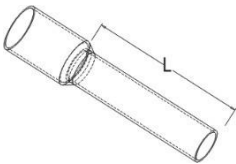
Wiring Method

For single stranded hard wires, after stripping the corresponding length of wire, insert the wire into the terminal while tightening the screw with a screwdriver.



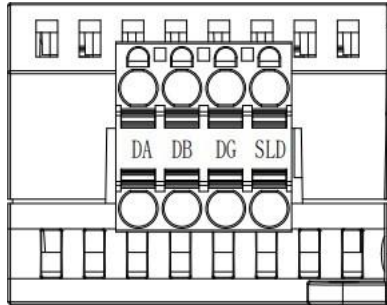
For multi-stranded flexible wires, after stripping the corresponding length of wires, use the corresponding standard specification of cold pressing terminals (tubular insulated terminals, as shown in the table below), insert the wires into the terminals and tighten the screws at the same time with a screwdriver.



Tube Insulation End Specification Sheet		
Specification	Model number	Cross-sectional area of conductor mm ²
 Tube insulated terminal L ≥ 6 mm in length	E0306	0.3
	E0506	0.5
	E0508	
	E7506	0.75
	E7508	
	E1006	1.0
	E1008	

Bus connection

It is recommended to use CC-Link special cable for the bus cable. The bus wiring sequence is shown below.

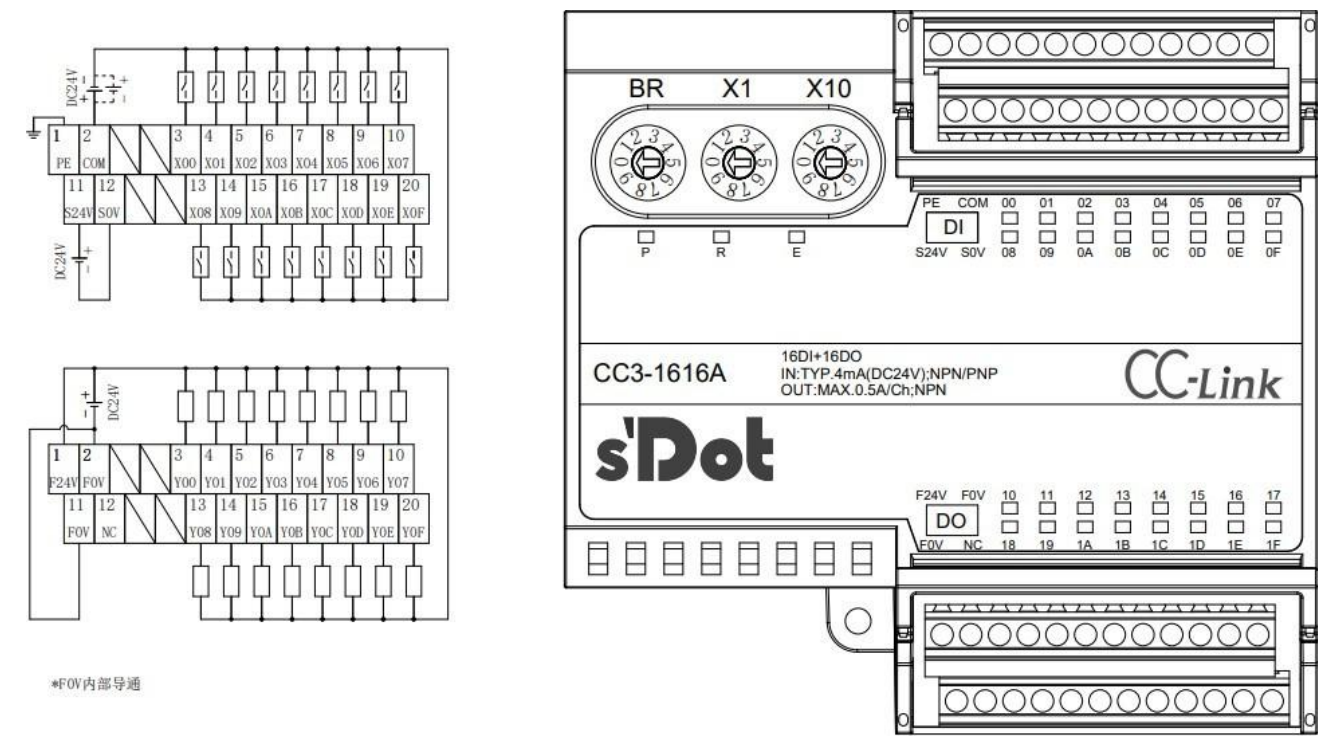


Terminating resistors need to be connected to the stations at both ends of the bus.

- When using CC-Link dedicated cable: 110 Ω 1/2W
- When using CC-Link dedicated high performance cable: 130 Ω 1/2W

6.3 I/O module wiring diagram

6.3.1 CC3-1616A



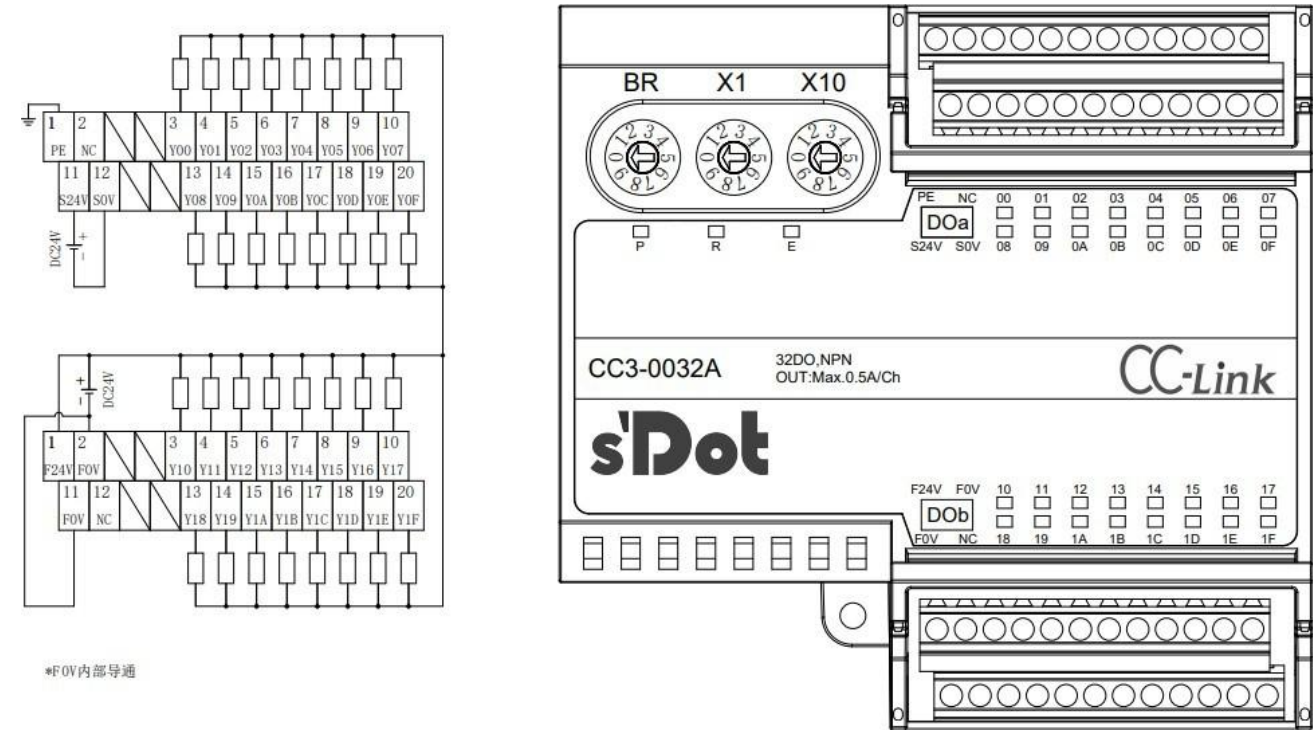
Gauge	Orientations	Signal Name		Gauge	Directional	Signal Name
1	importation	PE		11	importation	S24V
2	importation	COM		12	importation	S0V
3	importation	X00		13	importation	X08
4	importation	X01		14	importation	X09
5	importation	X02		15	importation	X0A
6	importation	X03		16	importation	X0B
7	importation	X04		17	importation	X0C
8	importation	X05		18	importation	X0D
9	importation	X06		19	importation	X0E
10	importation	X07		20	importation	X0F

Gauge	Orientations	Signal Name		Gauge	Orientations	Signal Name
1	importation	F24V		11	importation	F0V
2	importation	F0V		12	nothave	NC
3	exports	Y00		13	exports	Y08
4	exports	Y01		14	exports	Y09
5	exports	Y02		15	exports	Y0A
6	exports	Y03		16	exports	Y0B

7	exports	Y04		17	exports	Y0C
8	exports	Y05		18	exports	Y0D
9	exports	Y06		19	exports	Y0E
10	exports	Y07		20	exports	Y0F

Note: The module terminal ports are rated for 8A, when the total output load current of the module channels exceeds 8A, both F0V ports need to be wired.

6.3.2 CC3-0032A



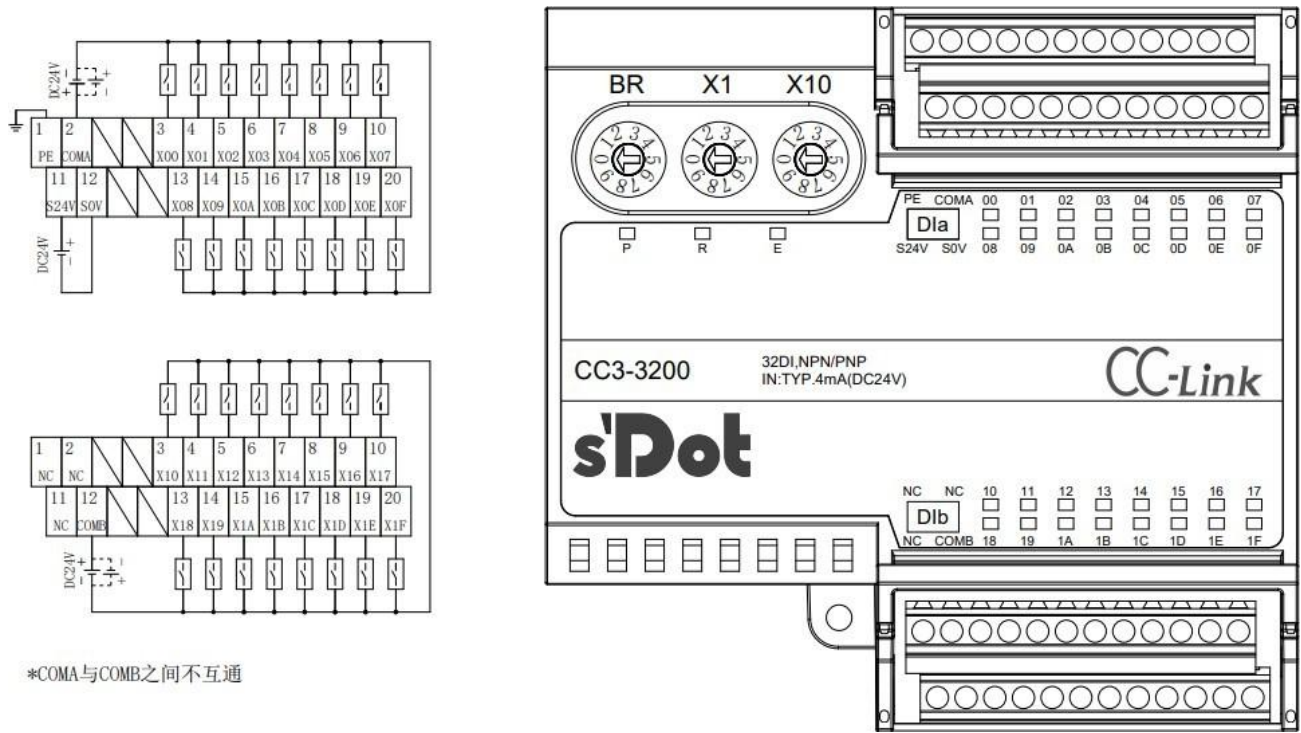
Gauge	Orientations	Signal Name		Gauge	Orientations	Signal Name
1	importation	PE		11	importation	S24V
2	nothave	NC		12	importation	S0V
3	exports	Y00		13	exports	Y08
4	exports	Y01		14	exports	Y09
5	exports	Y02		15	exports	Y0A
6	exports	Y03		16	exports	Y0B
7	exports	Y04		17	exports	Y0C
8	exports	Y05		18	exports	Y0D
9	exports	Y06		19	exports	Y0E
10	exports	Y07		20	exports	Y0F

Gauge	Orientations	Signal Name		Gauge	Orientations	Signal Name
1	importation	F24V		11	importation	F0V

2	importation	F0V		12	nothave	NC
3	exports	Y10		13	exports	Y18
4	exports	Y11		14	exports	Y19
5	exports	Y12		15	exports	Y1A
6	exports	Y13		16	exports	Y1B
7	exports	Y14		17	exports	Y1C
8	exports	Y15		18	exports	Y1D
9	exports	Y16		19	exports	Y1E
10	exports	Y17		20	exports	Y1F

Note: The module terminal ports are rated for 8A, when the total output load current of the module channels exceeds 8A, both F0V ports need to be wired.

6.3.3 CC3-3200

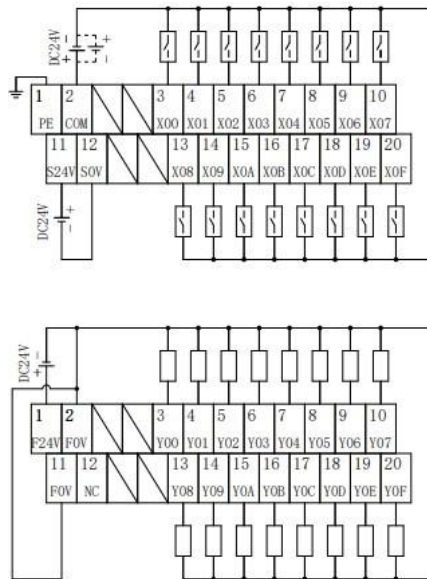


*COMA与COMB之间不互通

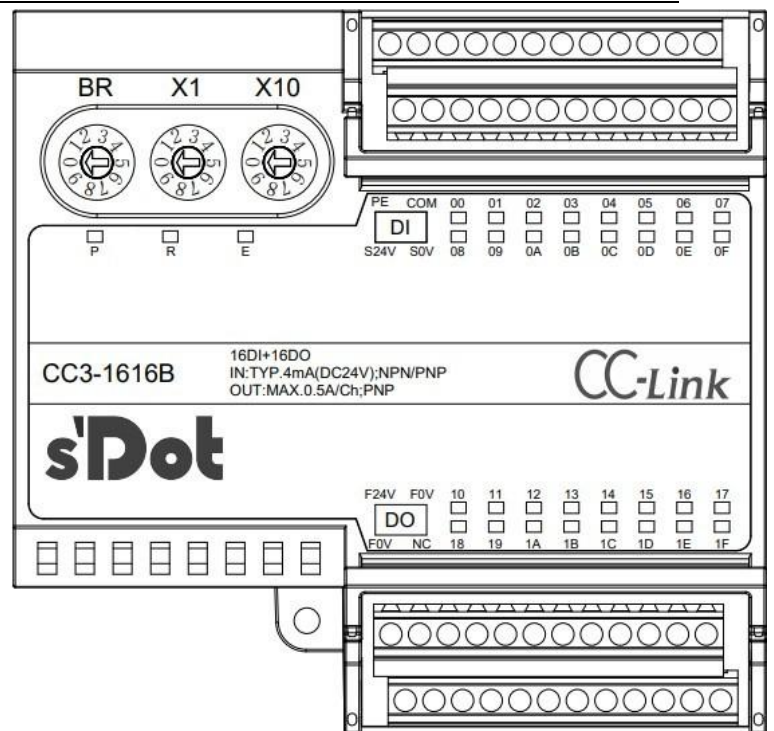
Gauge	Orientati o ns	Signal Name		Gauge	Orientatio n s	Signal Name
1	importatio n	PE		11	importatio n	S24V
2	importatio n	COMA		12	importatio n	S0V
3	importatio n	X00		13	importatio n	X08
4	importatio n	X01		14	importatio n	X09

5	importatio n	X02		15	importatio n	X0A
6	importatio n	X03		16	importatio n	X0B
7	importatio n	X04		17	importatio n	X0C
8	importatio n	X05		18	importatio n	X0D
9	importatio n	X06		19	importatio n	X0E
10	importatio n	X07		20	importatio n	X0F
Gauge	Orientati o ns	Signal Name		Gauge	Orientatio n s	Signal Name
1	nothave	NC		11	nothave	NC
2	nothave	NC		12	importatio n	COMB
3	importatio n	X10		13	importatio n	X18
4	importatio n	X11		14	importatio n	X19
5	importatio n	X12		15	importatio n	X1A
6	importatio n	X13		16	importatio n	X1B
7	importatio n	X14		17	importatio n	X1C
8	importatio n	X15		18	importatio n	X1D
9	importatio n	X16		19	importatio n	X1E
10	importatio n	X17		20	importatio n	X1F

6.3.4 CC3-1616B



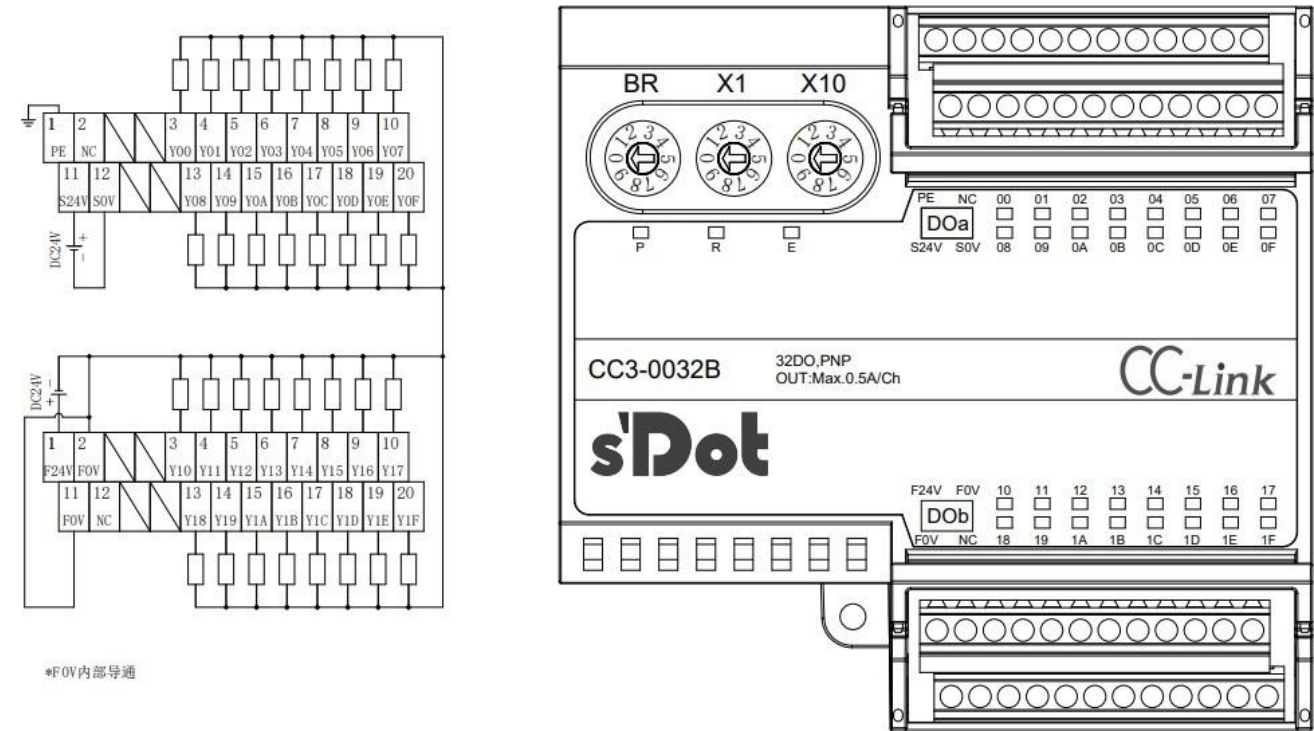
*F0V内部导通



Gauge	Orientations	Signal Name		Gauge	Directional	Signal Name
1	importation	PE		11	importation	S24V
2	importation	COM		12	importation	S0V
3	importation	X00		13	importation	X08
4	importation	X01		14	importation	X09
5	importation	X02		15	importation	X0A
6	importation	X03		16	importation	X0B
7	importation	X04		17	importation	X0C
8	importation	X05		18	importation	X0D
9	importation	X06		19	importation	X0E
10	importation	X07		20	importation	X0F
Gauge	Orientations	Signal Name		Gauge	Orientations	Signal Name
1	importation	F24V		11	importation	F0V
2	importation	F0V		12	nothave	NC
3	exports	Y00		13	exports	Y08
4	exports	Y01		14	exports	Y09
5	exports	Y02		15	exports	Y0A
6	exports	Y03		16	exports	Y0B
7	exports	Y04		17	exports	Y0C
8	exports	Y05		18	exports	Y0D
9	exports	Y06		19	exports	Y0E
10	exports	Y07		20	exports	Y0F

Note: The module terminal ports are rated for 8A, when the total output load current of the module channels exceeds 8A, both F0V ports need to be wired.

6.3.5 CC3-0032B



Gauge	Orientations	Signal Name		Gauge	Orientations	Signal Name
1	importation	PE		11	importation	S24V
2	nothave	NC		12	importation	S0V
3	exports	Y00		13	exports	Y08
4	exports	Y01		14	exports	Y09
5	exports	Y02		15	exports	Y0A
6	exports	Y03		16	exports	Y0B
7	exports	Y04		17	exports	Y0C
8	exports	Y05		18	exports	Y0D
9	exports	Y06		19	exports	Y0E
10	exports	Y07		20	exports	Y0F

Gauge	Directional	Signal Name		Gauge	Directional	Signal Name
1	importation	F24V		11	importation	F0V
2	importation	F0V		12	nothave	NC
3	exports	Y10		13	exports	Y18
4	exports	Y11		14	exports	Y19
5	exports	Y12		15	exports	Y1A
6	exports	Y13		16	exports	Y1B
7	exports	Y14		17	exports	Y1C
8	exports	Y15		18	exports	Y1D

9	exports	Y16		19	exports	Y1E
10	exports	Y17		20	exports	Y1F

Note: The module terminal ports are rated for 8A, when the total output load current of the module channels exceeds 8A, both F0V ports need to be wired.

7 Use

7.1 Module Soft Component Description

7.1.1 Soft component allocation

Digital Module Soft Component Assignment Table:

Station type	Number of occupied stations	Soft component	Clarification
Remote I/O Station	1	RX	32 bits For digital input of process data (input module -> master)
		RY	32 bits For digital output of process data (master -> output module)
		RWr	4 words
		RWw	4 words

7.1.2 Module Channel and Soft Component Correspondence List

32-channel digital input module		
Signal direction: Input module -> Master		
Soft Component No.	Corresponding Input Channel	input signal
DIa Digital Input		
RX0~RXF	Channel 00~0F	Input Signal X00~X0F
DIb Digital Input		
RX10~RX1F	Channel 10~1F	Input Signal X10~X1F

32-channel digital output module		
Signal Direction: Master -> Output Module		
Soft Component No.	Corresponding Output Channel	Output signal
RX0~RX1F	nothave	Prohibition on use
DOa Digital Output		
RY0~RYF	Channel 00~0F	Output signal Y00~Y0F

DOb Digital Output		
RY10~RY1F	Channel 10~1F	Output signal Y10~Y1F
16-channel digital input/output module		
Signal direction: input module -> master, master -> output module		
Soft Component No.	Corresponding input/output channels	Input/Output Signal
DI digital input		
RX0~RXF	Channel 00~0F	Input Signal X00~X0F
RX10~RX1F	nothave	Prohibition on use
Master->Output Module		
DO Digital Output		
RY0~RYF	nothave	Prohibition on use
RY10~RY1F	Channel 10~1F	Output signal Y00~Y0F

7.2 CC3 Series Modules in GX Works2 Software Environment

7.2.1 Preliminary

1. Equipment preparation

Refer to the module [wiring](#) section for instructions on properly plugging the module into the system.

2. Configure the transmission rate

Each remote I/O station module is factory set with a default transmission rate, usually the default transmission rate is 0, i.e., 156 Kbps. The dip switches correspond to the transmission rate as follows:

0: 156 Kbps, 1: 625 Kbps, 2: 2.5 Mbps, 3: 5 Mbps, 4: 10 Mbps

3. Set the station number

Each remote I/O station module has a default station number set at the factory, usually the default station number is "0". Users can set the station number by themselves according to their needs, and the range of station number is (1~64).

4. Module power-up

After checking the wiring, power up the CC3 Remote I/O Station Module and the PLC.

7.2.2 Module Usage

This section describes the operation procedure of CC3 series products on GX Works2 of MELSOFT series.

1、Create project

- a. Open the GX Works2 software, click "Project" in the menu bar, and click "New Project".
- b. New Project dialog box will pop up, select Simple Project for Project Type, select "QCPU (Q Mode)" for PLC Series, select "Q00UJ" for PLC Type, and default Ladder Diagram for Programming Language.
- c. Click OK, as shown below.



2、Network parameter setting

- a. In the left engineering interface, select "Parameter > Network Parameter" menu, and double click "CC-Link" to open "Network Parameter CC-Link List Setting"



interface.

- b. In the "Network Parameters CC-Link List Setting" interface, configure the relevant parameters as

网络参数 CC-Link 一览设置

模块块数 1 块 空白:无设置 ☐ 在CC-Link配置窗口中设置站信息

	1	2	3
① 起始I/O号 ②	0000		
运行设置	运行设置		
类型	主站		
数据链接类型	主站CPU参数自动启动		
模式设置	远端网络(Ver.1模式)		
总连接台数	1		
远端输入(RX) ③	X100		
远端输出(RY)	Y100		
远端寄存器(RWr)			
远端寄存器(RWw)			
Ver.2远端输入(RX)			
Ver.2远端输出(RY)			
Ver.2远端寄存器(RWr)			
Ver.2远端寄存器(RWw)			
特殊继电器(SB)			
特殊寄存器(SW)			
重试次数	3		
自动恢复台数	1		
待机主站站号			
CPU宕机指定	停止		
扫描模式指定	非同步		
延迟时间设置	0		
④ 站信息设置	站信息		
远端设备站初始设置	初始设置		
中断设置	中断设置		

必须设置(未设置 / 已设置) 必要时设置(未设置 / 已设置)

设置项目的详细内容: 单击该按钮后, 显示以台数为单位设置各模块站信息的对话框。

⑤ 设置结束

shown in the following figure.

Configuration Notes:

Module

block

number: 1

Starting I/O

number: 0

Total number of connected units:

Remote input (RX) refresh softwares set according to the number of connected modules:

X100

Remote Output (RY) Refresh Soft Element: Y100

For the rest of the settings, select Default, "Station Information Settings", refer to step 3 below.

- c. Click End of Setup.

3、Station information setting

- Click "Station Information". In this example, CC3-1616A is a digital I/O module.
- Select "Remote I/O station" for station type and "1 station occupied" for number of occupied stations.
- Click End of Settings, as shown in the following figure.



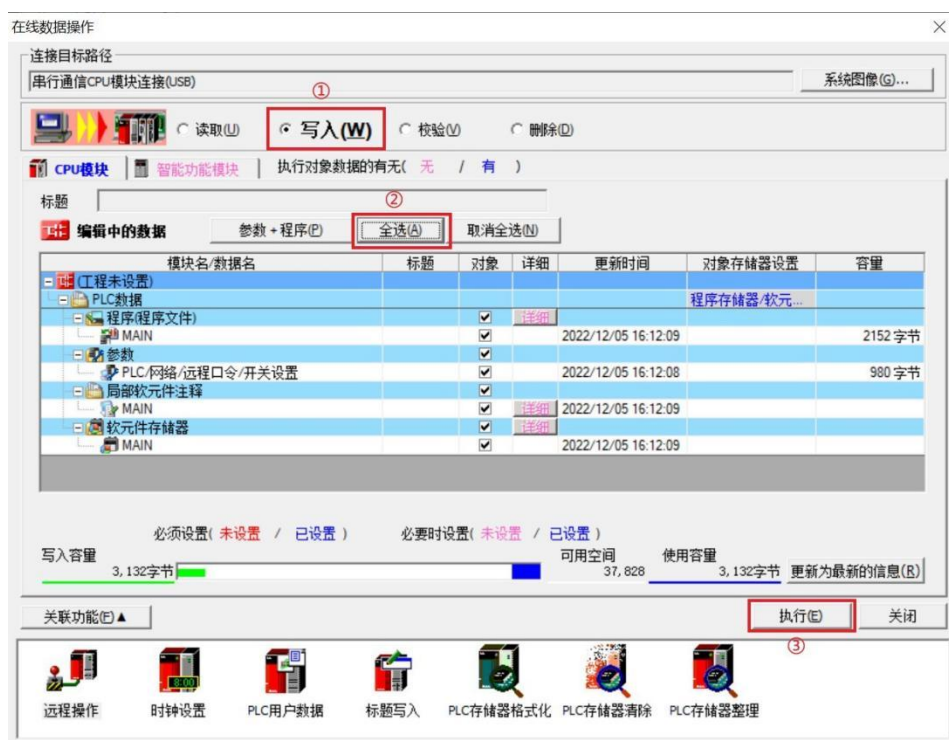
Configuration Notes:

- Station type: Select "Remote IO station" for digital IO.
- Number of occupied stations: Digital IO occupies 1 station.

After setting the station information, click "End of Setting" and then proceed to the PLC writing operation, otherwise the parameters will not be applied.

4、PLC Write

- Select Online > PLC Write.
- The "Online Data Operation" dialog box pops up, select "Write", and select "Select All" for the data in the editor, as shown in the following figure.

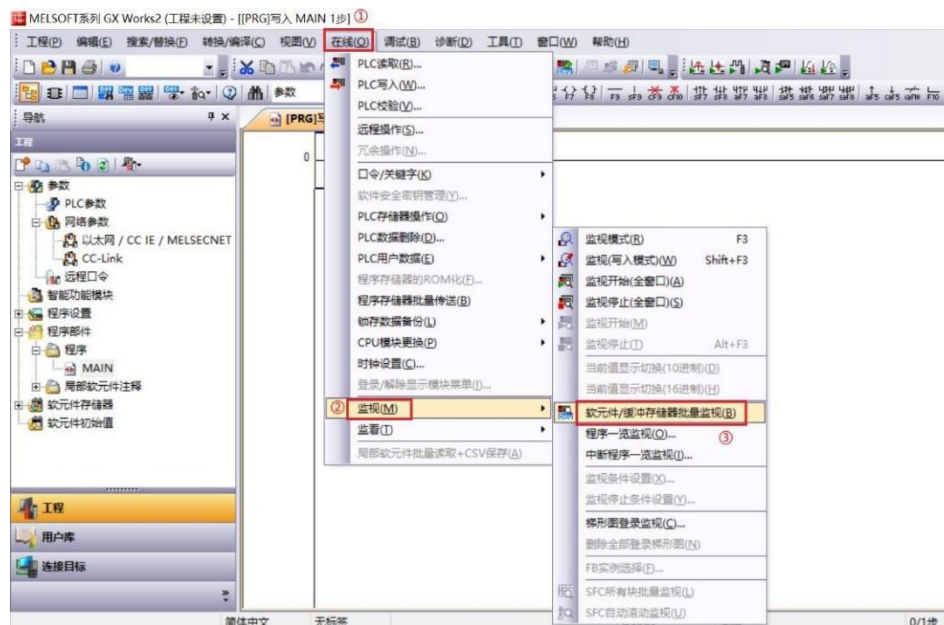


- c. Click on "Execute".
- d. A popup box appears, "After executing remote STOP, do you execute PLC writing?" Select "Yes".

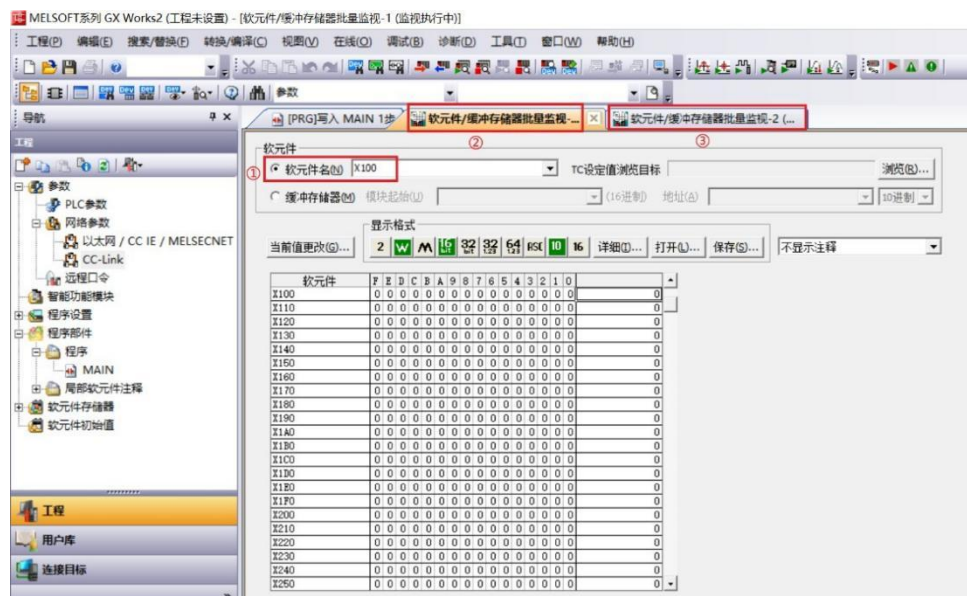
- e. A lower level prompt box pops up "Parameters already exist, do you want to overwrite them?"
Select "Yes to all".
- f. A lower level prompt box pops up "No data exists in the soft component comment (COMMENT). No write was performed." Click OK. The prompt "PLC Write Complete" **appears**.
- g. A popup box "PLC is in STOP state. Select "Yes".
- h. A pop-up box "Completed" click "OK".
- i. The PLC write operation is now complete, click Close.
- j. Disconnect the CC3 Remote I/O Station Module from the PLC and re-power it up.

5 、Monitoring Settings

- a. Select "Online > Monitor > Soft Component/Buffer Memory Batch Monitor".



b. Repeat the above operation to create two monitoring interfaces. Input the parameters of "Remote Input (RX) Refresh Softwares" and "Remote Output (RY) Refresh Softwares", i.e. "X100" and "Y100", in the "Softwares Name" of the two monitoring interfaces respectively, and the monitoring setting is completed. The parameters of "X100" and "Y100" are set in the screen of "Remote Input (RX) Refresh Soft Element" and "Remote Output (RY) Refresh Soft Element", and the monitoring



setting is completed. Refer to [7.1.2](#) to operate the data bits.