

CC-Link IE Field Basic CB4 Series Integrated I/O User Manual



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1 Product Overview

1.1 Products

CB4 series Integrated I/O modules with CC-Link IE Field Basic industrial Ethernet bus interface are compatible with CC-Link IE Field Basic networks of multiple vendors, taking up little space, fast speed, quick wiring, pluggable terminals, and simple configuration, providing multiple choices for highspeed data acquisition, optimized system configuration, simplified on-site wiring, and improved system reliability. It provides a variety of options for users to optimize system configuration, simplify field wiring, and improve system reliability by high-speed data acquisition.

1.2 Product Characteristics

dual network port

Support for exchange functions.

- small volume Compact and small footprint.
- quick

100 Gigabit industrial Ethernet port.

rich variety

A wide range of I/Os, including digital and analog modules, are available to meet the application requirements of different applications.

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 IE Field Basic masters.

Ease of use assembly line

DIN 35 mm standard rail mounting.

Adopts spring-type terminals for easy and quick wiring.

2 Destination Rules

2.1 Destination rules

$\frac{CB}{(1)} \frac{4}{(2)} - \frac{A}{(3)} \frac{8}{(4)} \frac{0}{(5)} \frac{V}{(6)}$

Model	Meaning	Product description					
number							
(1)	Bus protocol	CB: CC-Li	nk IE Field	Basic Protocol	Abbreviation		
(2)	Product Series	4: Integrat	ed I/O				
(3)	I/О Туре	A: Analog D:Digital	A: Analog D:Digital				
(4)	Input Signal	Analog: 0, 4, 8 Digital: 0, 8, 16, 24, 32					
(5)	Output Signal	Analog: 0, 4, 8 Digital: 0, 8, 16, 24, 32					
(6)	Input/Output	Digital	_	_	Analog		
	Characteristics	Туре	Input	Output	Туре	Description	
		A	NPN, 3ms	NPN, 0.5A	1	0~20 mA, 4~20 mA	
		В	PNP, 3ms	PNP, 0.5A	V	-10~+10 V, 0~+10 V 1~+5 V, 0~+5 V	
		J	-	Relay			

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2.2 Model List

Model number	Product Description					
CB4-3200A	32-channel digital input Module, NPN Type					
CB4-3200B	32-channel digital input Module, PNP Type					
CB4-1616A	16-channel digital input/o	utput module, NPN type				
CB4-1616B	16-channel digital input/outp	ut module, PNP type				
CB4-0032A	32-channel digital output Mo	dule, NPN Type				
CB4-0032B	32-channel digital output Mo	dule, PNP Type				
CB4-1600A	16-channel digital input Modu	ıle, NPN Type				
CB4-1600B	16-channel digital input Modu	ıle, PNP Type				
CB4-0016A	16-channel digital output Mo	dule, NPN Type				
CB4-0016B	16-channel digital output Mo	dule, PNP Type				
CB4-0808A	8-channel digital input/outpu	t module, NPN type				
CB4-0808B	8-channel digital input/outpu	t module, PNP type				
CB4-2408A	24-channel digital input, 8-c	hannel digital output module, NPN type				
CB4-2408B	24-channel digital input, 8-channel digital output module, PNP type					
CB4-0824A	8-channel digital input, 24-channel digital output module, NPN type					
CB4-0824B	8-channel digital input, 24-channel digital output module, PNP type					
CB4-1612J	16-channel digital input (NPN/PNP type), 12-channel relay output module					
CB4-0012J	12-channel Relay Output Module					
CB4-A80V	8-channel analog voltage					
	input module	Range: -10 \sim +10 V, 0 \sim +10 V 0 \sim +5 V, 1 \sim +5V				
CB4-A40V	4-channel analog voltage					
	input module					
CB4-A08V	8-channel analog voltage					
CB4-AU4V	4-channel analog voltage output module					
CB4-A80I	8-channel analog current					
	input module					
CB4-A08I	8-channel analog current	Range: 0~20 mA, 4~20 mA				
	output module					
CB4-A40I	4-channel analog current					
	input module					
CB4-A04I	4-channel analog current					
	output module					
XX4-C10_4	Public Side Extension Module					

3 Product Parameters

3.1 General Parameters

Interface parameter					
Protocol	CC-Link IE Field Basic				
Port number	61450 (pe	eriodic data), 61451 (search for nodes)			
Number of logical stations	1				
Maximum data volume	RX, RY	64 bits (at 1 logical station)			
	RWr, RWw	32 words (at 1 logical station)			
Data transmission medium	nission medium Ethernet CAT5 cable				
Transmission distance	≤100 m (station to station)			
Transmission rate	100 Mbps				
Interface	erface 2 × RJ45				
Technical Parameters					
Configuration	Through the master				
Bus topology	Line, star, etc.				
Power supply	Power supply 24 VDC (18V~36V)				
Weight	130g				
Dimension	102 x 72 x 25 mm				
Operating temperature	-10°C~+60°C				
Storage temperature	-20°C~+75°C				
Relative humidity	ity 95%, non-condensing				
Protection class	IP20				

3.2 Digital parameter

Digital input	
Rated voltage	24 VDC (18V~30V)
Number of signal points	8, 16, 24, 32
Signal Type	NPN/PNP
"0" signal voltage	-3~+3 V
(PNP)	
"1" signal voltage (PNP)	15~30 V
"0" signal voltage (NPN)	15~30 V
"1" signal voltage (NPN)	-3~+3 V
Input Filtering	3 ms
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	8, 16, 24, 32
Signal Type	NPN/PNP
Load Type	Resistive loads, inductive loads
Single channel rated	NPN type Max: 500 mA
current	PNP type Max: 500 mA
Port protection	Over-voltage and over-current protection
Isolation method	Optocoupler Isolation
Isolated Withstand Voltage	500 VAC
Channel Indicator Lights	Green LEDs
Relay output	
rated voltage	24 VDC (18V~30V)
Number of signal points	12
Isolation method	Optocouplers, Relays
	Relay single output 4A
Rated load	Common Port 1 Carrier 8A
	Common Port 2 Carrier 16A
Common terminal wiring method	4 points/1 common
Channel Indicator Lights	Green LEDs

3.3 Analog parameter

3.3.1 Technical Parameters

Analog Input					
Input Points	4, 8				
Input signal (voltage type)	0: -10 to +10 V (-32768 to 32767)				
	1: 0~+10 V (0~65535)				
	2: -10 to +10 V (-32000 to 32000)				
	3: 0~+10 V (0~32000)				
	4: 0~+5 V (0~32000)				
	5: 1~+5 V (0~32000)				
	6: -10~+10 V (0~4000)				
	7: 0~+10 V (0~4000)				
	8: 0 to +5 V (0 to 4000)				
	9: 1 to +5 V (0 to 4000)				
Input signal (current type)	0: 4~20 mA (0~65535)				
	1: 0~20 mA (0~65535)				
	2: 4~20 mA (0~27648)				
	3: 0~20 mA (0~27648)				
Resolution (of a photo)	16 bit				
Sampling rate	≤1 ksps				
Accurate	±0.1%				
Input Impedance (Voltage	≥2 kΩ				
Туре)					
Input impedance (current type)	100 Ω				
Isolated Withstand Voltage	500 VAC				
Channel Indicator Lights	Green LEDs				

analog output					
Output points	4, 8				
Output signal (voltage	0: -10 to +10 V (-32768 to 32767)				
type)	1: 0~+10 V (0~65535)				
	2: -10 to +10 V (-32000 to 32000)				
	3: 0~+10 V (0~32000)				
	4: 0~+5 V (0~32000)				
	5: 1~+5 V (0~32000)				
	6: -10~+10 V (0~4000)				
	7: 0~+10 V (0~4000)				
	8: 0 to +5 V (0 to 4000)				
	9: 1 to +5 V (0 to 4000)				
Output signal (current	0: 4~20 mA (0~65535)				
type)	1: 0~20 mA (0~65535)				
	2: 4~20 mA (0~27648)				
	3: 0~20 mA (0~27648)				
Resolution (of a photo)	16 bit				
Accurate	±0.1%				
Load impedance (voltage	$\geq 2 k\Omega$				
type)					
Load impedance (current	<200 Ω				
type)					
Isolated Withstand Voltage	500 VAC				
Channel Indicator Lights	Green LEDs				

rs

3.3.2	Voltage Input/Output Range Selection and Code Value Table

Voltage input/output range selection and code value range 1							
Range	0	1	2	3	4		
Selection							
Measurem	-10~+10 V	0~+10 V	-10~+10 V	0~+10 V	0~+5 V		
ent range							
Code	-32768~32767	0~65535	-32000~32000	0~32000	0~32000		
Value							
Range							
Voltage	D-(65535/20)*U	D_(65535/10)*II		D-(32000/10)*II			
Input	D=(03333/20) 0	D=(03333/10) 0	D=(04000/20) 0	D=(32000/10) 0	D=(32000/3) 0		
formula							
voltage							
output	0-(D 20)/03333	0-(D 10)/03555	0=(D 20)/04000	0-(D 10)/32000	0=(D 3)/32000		
formula							
code							
value	See Table 3-1 voltage Code value Table.						
correspo							
ndence							
table							

Note: D denotes code value and U denotes voltage.

Range	0	1	2	3	4
Selectio	-10~+10 V	0~+10 V	-10~+10 V	0~+10 V	0~+5 V
n Range	code value	codevalue	code value	code value	code value
input					
voltage	22769		22000		
-10	-32708	-	-32000	-	-
-9	-29491	-	-28800	-	-
-8	-26214	-	-25600	-	-
-7	-22938	-	-22400	-	-
-6	-19661	-	-19200	-	-
-5	-16384	-	-16000	-	-
-4	-13107	-	-12800	-	-
-3	-9830	-	-9600	-	-
-2	-6554	-	-6400	-	-
-1	-3277	-	-3200	-	-
0	0	0	0	0	0
1	3277	6554	3200	3200	6400
2	6554	13107	6400	6400	12800
3	9830	19661	9600	9600	19200
4	13107	26214	12800	12800	25600
5	16384	32768	16000	16000	32000
6	19661	39321	19200	19200	-
7	22938	45875	22400	22400	-
8	26214	52428	25600	25600	-
9	29491	58982	28800	28800	-
10	32767	65535	32000	32000	-
	Code value =				
	(65535/20)	(65535/10)	(64000/20)	(32,000/10)	(32,000/5)
	*Voltage	*Voltage	*Voltage	*Voltage	*Voltage
	Voltage = (code				
	value)	value)	value)	value)	value)
	*20)/65535	*10)/65535	(*20)/64,000	(*10)/32000	(*5)/32,000

Table 3-1 Voltage Code Values Table

Voltage in	Voltage input/output range selection and code value range 2					
Range	5	6	7	8	9	
Selection						
Measurem	1~+5 V	-10~+10 V	0~+10 V	0~+5 V	1~+5 V	
entrange						
Code	0~32000	0~4000	0~4000	0~4000	0~4000	
Value						
Range						
Voltage	D=(32000/4)*U-	D=(4000/20)*U			D=(4000/4)*U-	
Input	8000	+2000	D=(4000/10) 0	D=(4000/3) 0	1000	
formula						
Voltage		U=((D-				
Output	$U = ((D + 8000)^{*}4)$	2000)*20)	U=(D*10)/4000	U=(D*5)/4000	$U = ((D + 1000)^{*4})$	
Calculat	/32000	/4000			/4000	
ion						
Formula						
code	See Table 3-2 V	oltago Codo Value	Table			
value	See Table 5-2 V					
correspo						
ndence						
table						

Note: D denotes code value and U denotes voltage.

Range	5	6	7	88	9
Selectio	1~+5 V	-10 ~+10 V	0~+10 V	0~+5 V	1~+5 V
n Range	code value	code value	code value	code value	code value
Input					
voltage					
-10	-	0	-	-	-
-9	-	200	-	-	-
-8	-	400	-	-	-
-7	-	600	-	-	-
-6	-	800	-	-	-
-5	-	1000	-	-	-
-4	-	1200	-	-	-
-3	-	1400	-	-	-
-2	-	1600	-	-	-
-1	-	1800	-	-	-
0	-	2000	0	0	-
1	0	2200	400	800	0
2	8000	2400	800	1600	1000
3	16000	2600	1200	2400	2000
4	24000	2800	1600	3200	3000
5	32000	3000	2000	4000	4000
6	-	3200	2400	-	-
7	-	3400	2800	-	-
8	-	3600	3200	-	-
9	-	3800	3600	-	-
10	-	4000	4000	-	-
	code value	code value	code value	Code value = (4000/5)*	Code value = (4000/4)*
	=	=	=	input voltage	Voltage - 1000
	(32000/4)*Electri	(4000/20)*Electri	(4000/10)*Electri		
	city	city	city		
	Pressure-8000	Pressure +2000	pushdown		
	Voltage = (code	Voltage = (code	Voltage = (code	Voltage = (code	Voltage = (code
	value)	value -	value)	value)	value)
	+8000) *4/32000	2000) *20/4000	(*10)/4000	(*5)/4000	(+1000) *4/4000

Table 3-2 Voltage Code Value Table

3.3.3 Current Input/Output Range Selection and Code Value Table

Analog Current Input/Output Range Selection and Code Value Range						
Range Selection	0	1	2	3		
Measurement range	4~20 mA	0~20 mA	4~20 mA	0~20 mA		
Code Value Range	0~65535		0~27648			
Current input calculation formulas	D=(65535/16)*I- 16384	D=(65535/20)*I	D=(27648/16)*I- 6912	D=(27648/20)*I		
Current Output Calculation formulas	I=(D+16384)*16/65 535	I=(D*20)/65535	I=((D+6912)*16)/2 7648	I=(D*20)/27648		
Code value correspondenc e table	See Table 3-3 for a	table of current code	e values.			

Note: D denotes code value and I denotes current.

Form 3-3 Current Code Values Table

Range	0 (default)	1	2	3
Selectio	4-20 mA	0-20 mA	4-20 mA	0-20 mA
n Range				
	code value	code value	code value	code value
amps				
0	-	0	-	0
1	-	3277	-	1382
2	-	6554	-	2765
3	-	9830	-	4147
4	0	13107	0	5530
5	4096	16384	1728	6912
6	8192	19661	3456	8294
7	12288	22937	5184	9677
8	16384	26214	6912	11059
9	20479	29491	8640	12442
10	24575	32768	10368	13824
11	28671	36044	12096	15206
12	32767	39321	13824	16589
13	36863	42598	15552	17971
14	40959	45875	17280	19354
15	45055	49151	19008	20736
16	49151	52428	20736	22118
17	53247	55705	22464	23501
18	57343	58982	24192	24883
19	61439	62258	25920	26266
20	65535	65535	27648	27648
	Code Value =	Code value =	Code value =	Code value =
	65535/16*	(65535/20)*	(27648/16)*	(27648/20)*
	Electricity	amps	Current-6912	amps
	Stream-16384	,		,
	Current=(codevalue+	Current = (code	Current = (code	Current = (code
	16384)	value * 20)	value + 6912)	value * 20)
	*16/65535	/65535	*16/27648	/27648

3.4 Parameters of the public side extension module

common terminal			
rated voltage	125 VDC/AC 250V		
rated current	8 A		
Number of public terminals	4 groups (10P/group)		

4 Panel

4.1 Product mix



Name and function description of each part of the product

Serial	Name (of a thing)	Description
number		
1	Power connector	3P terminal
2	bus interface	2×RJ45
(iii)	Operation Indicator Light	Module Operational Status
(4)	Power indicator	Module Power Status
5	warning indicator	Indicates module alarm status

(vi)	Guideway slotting	For DIN 35mm rail fixing S	
(vii)	modular labeling	Labeling information such as module model, type, and MAC	
		address	
B	Channel Signal Indicator	Indicates the corresponding channel status	
9	Network Port Indicator	Link and data sending and receiving status	
10	rotary switch	Setting the IP Address	
(1)	module identification	Labeling information such as module model, bus type, etc.	
(12)	signal identification	Indication signal type	
fictitious passage of stool	channel marking	Signal Corresponding Channel Identification	
(14)	channel interface	2020P terminals	
15	reset switch	Press and hold for more than 1 second to restore the IP address	
		to the factory state.	

4.2 Indicator light function

Name (of a thing)	Markings	Color	State of	State Description	
			attairs		
Power indicator	PWR	Green	ON	Power supply is normal	
			OFF	The product is not powered up or the power supply	
				is abnormal	
Operation status	RUN	Green	ON	Module in operation, cyclic transfer in progress	
indicator			2.5Hz flashing	Module runs, cyclic transfer stops	
			10Hz flashing	Module not configured	
			OFF	Module Disconnect	
warning ERR Red ON Com		Communication error			
indicator			OFF	The equipment is normal or the power supply is cut	
Port Status	1	Green	ON	establish a network connection	
Indicator			Flashing	Connection established with data interaction	
			OFF	No network connection established or abnormal	
	2	Green	ON	establish a network connection	
			Flashing	Connection established with data interaction	
			OFF	No network connection established or abnormal	
Input Channel	0 to F	Green	ON	Module channels have signal inputs	
Status			OFF	No signal input or abnormal signal input on module	
Indicator				channel	
signal light					
Output	0 to F	Green	ON	Module channels have signal outputs	

Channel		OFF	No signal output or abnormal signal output from
Status			module channel
Indicator			
signal light			

Rotary Dial Description

The method of setting the module IP address can be specified using the rotary switch, which is shown below:



Set value (decimal)	Realm
001 to 254	Sets the IP address to 1 Byte lower. " \times 1" is set in the range of 1 to 254 for the digit.
000, 255~	When the rotary switch is set to 0, 255, or more than 255, the module is currently using the IP address of the last host computer.
	Changed IP address or factory IP address.

The factory setting of the rotary switch is "000" and the IP address is the factory setting IP: 192.168.3.100.

The IP address set by the rotary switch will take effect only after re-powering up; without re-powering up, the modified parameters will not take effect.

Remarks:

- 1. Tool selection
 - When the module is shipped from the factory, it has been matched with the corresponding specifications of the screwdriver, please use the matching specifications of the screwdriver. If you do not have a screwdriver, please use a 1mm or Phillips screwdriver with a 2mm opening to rotate the switch.
- 2. Be sure to use the rotary switch to set the IP address in the event of a power failure. If you need to change the IP address during communication, the new settings will not take effect until the power is turned on again after the new settings are completed.

Installation and

disassembly

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 Integratedly 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 Integratedly . to ensure smooth airflow inside the module.



Minimum distance

Module protection level is IP20, need to be installed in the box or cabinet, when installing, 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 figure below (unit: mm).





5.1 Overall dimensions

Outline specifications (in mm)



Mounting method:

- 1. Top and bottom alignment;
- 2. DIN 35 mm rail, snap-on mounting.

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5.2 Installation and disassembly

Mounting



1





(4)

2

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 ③④.

3



The module placement is shown in Figure (5).

CB4 Series Integrated I/O User Manual



Dismantle



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

shown in Figure 6.

Move

Insert the flat head into the s n a p and apply pressure in the direction of the module. (Rattling sound is heard.) Remove the module as shown in Fig.7 by reversing the procedure for installing the module.

 \bigcirc

6 Wiring

6.1 Wiring terminal

Wiring terminal					
Signal Line Terminal	extremity	2*20 P			
	wire diameter	22~17 AWG 0 .3~1.0 mm ²			
Power supply terminal	extremity	3 P			
	wire diameter	22~16 AWG 0 .3~1.5 mm ²			
Bus interface	2*RJ45	Category 5+ UTP or STP (STP recommended)			

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

Screw-free design for the terminals, cable installation and removal with a screwdriver (bit width: \leq 3 mm)

Stripped Wire Length Requirements

Recommended stripping length 10 mm.



For single stranded hard wires, after stripping the corresponding length of wire, press down the button

while inserting the wire into the terminal. For multi-stranded flexible wires, after stripping the corresponding lengths of wires, use the corresponding standard specification cold press terminals (tubular insulated terminals, reference specifications are shown in the table below) and press the button to insert the wires at the same time.



Tube Insulation End Specification Sheet				
Specification	Model number	Cross-sectional area of		
		conductor mm ²		
	E0310	0.3		
	E0510	0.5		
	E7510	0.75		
	E1010	1.0		
Tube insulated terminal L with a length of 10 mm	E1510	1.5		

Power Wiring

The module power supply uses DC24V, the power cable is recommended to use twisted-pair cable, the power wiring is shown in the following figure.



Bus Wiring

Adopts standard RJ45 network interface with standard crystal connector, and the pin assignment is shown in the figure below.



pin	code
number	
1	TD+
2	TD-
3	RD+
4	-
5	-
6	RD-
7	-
8	-

🗲 caveat

- Double shielded (braided mesh + aluminum foil) STP cables of category 5 or higher are recommended as communication cables.
- The length of the cables between the devices must not exceed 100 m.

Signal and load power wiring

The load power is supplied by DC24V power supply. For the wiring of load power and signal lines, please refer to the wiring diagram of the corresponding I/O module and the wiring method to press the cables into the terminals (refer to 6.3 Wiring Diagram of I/O Module for details).

I/O module wiring diagram 6.3

6.3.1 CB4-3200A



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s'Dot

-32(

CB4-3

Dla

0/8

1/9

214

3/E

4/0

5/0

6/F

ov

DIb

0/8

1/9

2/A

3/B

4/C

5/D

6/E

7/F 24 DITIOV

*24V内部导通;0V内部导通

6.3.2 CB4-3200B



6.3.3 CB4-1616A



6.3.4 CB4-1616B



6.3.5 CB4-0032A



6.3.6 CB4-0032B


6.3.7 CB4-1600A



6.3.8 CB4-1600B



6.3.9 CB4-0016A



6.3.10 CB4-0016B



6.3.11 CB4-2408A







6.3.14 CB4-0824B



6.3.15 CB4-0808A



6.3.16 CB4-0808B



6.3.17 CB4-A80V



6.3.18 CB4-A80I



6.3.19 CB4-A40V



6.3.20 CB4-A40I



6.3.21 CB4-A08V



6.3.22 CB4-A04V



6.3.23 CB4-A08I



6.3.24 CB4-A04I



6.3.25 CB4-1612J



DO

Y00

Y01

СОМО

Y04

Y05

Y08 7

COM1

Y09

COM

+ 24V

DC24V

DC24V

¥03

4Y06

(15) | 4 Y07

COM1

▲Y0A

▼Y0B

OV

COM2

COMO

2)(12)

13

4)(14)

(17)

(8)(18)

5

6)(16

9 419

(10)

*DI部分COM内部导通,NPN/PNP兼容 *DO部分COM0~COM2可接正极或负极, 内部分别导通,仅支持DC48V以内 *负载公共端电源需与模块使用同一个电源



5/7 C2

8/A

9/B

6.4 Common Expansion Module Wiring Diagram



7 Use

7.1 Module Soft Component Description

7.1.1 Soft component allocation

Station type	Number of	Soft component	Clarification
	occupied stations		
	Slaves 1	RX	64 bits (8 bytes) For digital input of process data
Slaves		RY	64 bits (8 bytes) For digital output of process data for analog input range selection For analog output range selection
		RWr	32 words (64 bytes) For analog input of process data
		RWw	32 words (64 bytes) for analog output process data For analog input filtering configuration

7.1.2 Module Channel and Soft Component Correspondence List

16-channel digital input module		
Signal direction: Input module -> Master		
Soft Component No.	Corresponding Input Channel	Input signal
DI digital input		
RX0~RXF	Channel 0~F	Input signals X0~XF
RX1F~RX3F		
RY0~RY3F	nothave	Prohibition on use
RWr0~RWr3F		
RWw0~RWw3F		

32-channel digital input module		
Signal direction: Input module	-> Master	
Soft Component No.	Corresponding Input	Input signal
	Channel	
Dla digital input		
RX0~RXF	Channel 0~F	Input signals X0~XF
DIb digital input		
RX10~RX1F	Channel 0~F	Input signal X10~X1F
RX20~RX3F		
RY0~RY3F	- nothave prohibition on use	probibition on use
RWr0~RWr3F		prombrider on use
RWw0~RWw3F		

16-channel digital output module		
Signal direction: master -> output module		
Soft Component No.	Corresponding Output	output signal
	Channel	
RX0~RX3F	nothave	prohibition on use
DO digital output		
RY0~RYF	Channel 0~F	Output signals Y0~YF
RY10~RY3F		
RWr0~RWr3F	nothave	prohibition on use
RWw0~RWw3F		

32-channel digital output module			
Signal direction: master -> output module			
Soft Component No.	Corresponding Output Channel	output signal	
RX0~RX3F	nothave	prohibition on use	
DOa digital output			
RY0~RYF	Channel 0~F	Output signals Y0~YF	
DOb digital output			
RY10~RY1F	Channel 0~F	Output signal Y10~Y1F	
RY20~RY3F			
RWr0~RWr3F	nothave	prohibition on use	
RWw0~RWw3F			

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 0~F	Input signals X0~XF	
RX10~RX3F	nothave	prohibition on use	
DO digital output			
RY0~RYF	nothave	prohibition on use	
RY10~RY1F	Channel 0~F	Output signal Y10~Y1F	
RY20~RY3F			
RWr0~RWr3F	nothave	prohibition on use	
RWw0~RWw3F			

8-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~RX7	Channel 0~7	Input signals X0~X7	
RX8~RX3F	nothave	prohibition on use	
DO digital output			
RY0~RY7	nothave	prohibition on use	
RY8~RYF	Channel 0~7	Output signals Y8~YF	
RY10~RY3F			
RWr0~RWr3F	nothave	prohibition on use	
RWw0~RWw3F			

24-channel digital input, 8-channel digital output module			
Signal direction: input module -> master, master -> output module			
Soft Component No.	Corresponding input/output channels	Input/Output Signal	
DI digital input			
RX0~RX17	Channel 0~23	Input signals X0~X17	
RX18~RX3F	nothave	prohibition on use	
DO digital output			
RY0~RY17	nothave	prohibition on use	
RY18~RY1F	Channel 0~7	Output signal Y18~YIF	
RY20~RY3F			
RWr0~RWr3F	nothave	prohibition on use	
RWw0~RWw3F			

8-channel digital input, 24-channel digital output module		
Signal direction: input module	-> master, master -> output mod	lule
Soft Component No.	Corresponding input/output channels	Input/Output Signal
DI digital input		
RX0~RX7	Channel 0~7	Input signals X0~X7
RX8~RX3F	nothave	prohibition on use
DO digital output		
RY0~RY7	nothave	prohibition on use
RY8~RY1F	Channel 0~23	Output signals Y8~Y1F
RY20~RY3F		
RWr0~RWr3F	nothave	prohibition on use
RWw0~RWw3F		

16-channel digital input, 12-channel relay output module			
Signal direction: input module -> master, master -> output module			
Soft Component No.	Corresponding	Input/Output Signal	
	input/output channels		
DI digital input			
RX0~RXF	Channel 0~F	Input signals X0~XF	
RX10~RX3F	nothave	prohibition on use	
DO digital output			
RY0~RYF	nothave	prohibition on use	
RY10~RY1B	Channel 0~B	Output signal Y10~Y1B	
RY1C~RY3F			

RWr0~RWr3F		
RWw0~RWw3F		
12 Channel Relay Output Mod	ule	
Signal direction: master -> out	put module	
Soft Component No.	Corresponding Output	output signal
	Channel	
RX0~RX3F	nothave	prohibition on use
DO digital output		
RY0~RYB	Channel 0~B	Output signals Y0~YB
RYC~RY3F		
RWr0~RWr3F	nothave	prohibition on use
RWw0~RWw3F		

8-channel analog input module							
Signal direction: Input module	-> Master						
Soft Component No.	Corresponding Input Channel	input signal					
RX0~RX3F	nothave	prohibition on use					
RY0~RY7	Channel 0 Range Selection						
RY8~RYF	Channel 1 Range Selection						
RY10~RY17	Channel 2 range selection						
RY18~RY1F	Channel 3 range selection						
RY20~RY27	Channel 4 range selection						
RY28~RY2F	XY28~RY2F Channel 5 range selection						
RY30~RY37 Channel 6 range selection							
RY38~RY3F	Channel 7 Range Selection						
RWr0	Channel 0 Input signal D0						
RWr1	Channel 1 Input signal D1						
RWr2	Channel 2 Input signal D2						
RWr3	Channel 3 Input signal D3						
RWr4	Channel 4 Input signal D4						
RWr5	Channel 5 Input signal D5						
RWr6	Channel 6 Input signal D6						
RWr7	Channel 7 Input signal D7						
RWr8~RWr3F	prohibition on use						
RWw0	Channel 0 Filter Configuration	n D0					
RWw1	Channel 1 Filter Configuration	n D1					
RWw2	Channel 2 Filter Configuration	n D2					
RWw3	Channel 3 Filter Configuration	n D3					

RWw4	Channel 4 Filter Configuration D4							
RWw5	Channel 5 Filter Configuration D5							
RWw6	Channel 6 Filter Configuration	on D6						
RWw7	Channel 7 Filter Configuration D7							
RWw8~RWw3F	prohibition on use							
8-channel analog output module								
Signal direction: master -> output module								
Soft Component No.	Corresponding Output Channel	output signal						
RX0~RX3F	nothave	prohibition on use						
RY0~RY7 Channel 0 Range Selection								
RY8~RYF	Channel 1 Range Selection							
RY10~RY17	Channel 2 range selection							
RY18~RY1F	Channel 3 range selection							
RY20~RY27	Channel 4 range selection							
RY28~RY2F	Channel 5 range selection							
RY30~RY37	Channel 6 range selection							
RY38~RY3F	Channel 7 Range Selection							
RWr0~RWr3F	prohibition on use							
RWw0	Channel 0 Output signal D0							
RWw1	Channel 1 Output Signal D1							
RWw2	Channel 2 Output Signal D2							
RWw3	Channel 3 Output Signal D3							
RWw4	Channel 4 Output signal D4							
RWw5	Channel 5 Output signal D5							
RWw6	Channel 6 Output signal D6							
RWw7	Channel 7 Output signal D7							
RWw8~RWw3F	prohibition on use							

4-channel analog input module									
Signal direction: Input module	Signal direction: Input module -> Master								
Soft Component No.	Corresponding Input Channel input signal								
RX0~RX3F	nothave	prohibition on use							
RY0~RY7	Channel 0 Range Selection								
RY8~RYF	Channel 1 Range Selection								
RY10~RY17	Channel 2 range selection								
RY18~RY1F	Channel 3 range selection								
RY20~RY3F	prohibition on use								
RWr0	Channel 0 Input signal D0								
RWr1	Channel 1 Input signal D1								

RWr2	Channel 2 Input signal D2								
RWr3	Channel 3 Input signal D3								
RWr4~RWr3F	prohibition on use								
RWw0	Channel 0 Filter Configurati	on D0							
RWw1	Channel 1 Filter Configurati	on D1							
RWw2	Channel 2 Filter Configurati	Channel 2 Filter Configuration D2							
RWw3	Channel 3 Filter Configurati	Channel 3 Filter Configuration D3							
RWw4~RWw3F	prohibition on use	prohibition on use							
4-channel analog output r	nodule								
Signal direction: master ->	output module								
Soft Component No.	Corresponding Output	output signal							
	Channel								
RX0~RX3F	nothave	prohibition on use							
RY0~RY7	Channel 0 Range Selection	Channel 0 Range Selection							
RY8~RYF	Channel 1 Range Selection								
RY10~RY17	Channel 2 range selection								
RY18~RY1F	Channel 3 range selection								
RY20~RY3F	prohibition on use								
RWr0~RWr3F	prohibition on use								
RWw0	Channel 0 Output signal D0								
RWw1	Channel 1 Output Signal D1								
RWw2	Channel 2 Output Signal D2								
RWw3	Channel 3 Output Signal D3								
RWw4~RWw3F	prohibition on use	prohibition on use							

7.2 Parameter and function configuration

7.2.1 Digital input Filter Time

Digital input filtering prevents the program from responding to unexpected rapid changes in the input signal, which may be caused by switch contact jumps or electrical noise. digital input Filtering is currently fixed at 3ms, which filters out noise up to 3ms, and channels are not individually configurable.

An input filter time of 3ms means that a single signal from "0" to "1" or from "1" to "0 A single signal change from "0" to "1" or from "1" to "0" lasts for 3ms before it can be detected, while a single high pulse or low pulse shorter than 3ms will not be detected.

7.2.2 Analog range configuration function

The analog range setting function allows you to set the analog range for the analog input/output module. (For details of the range, see "3.3 Analog **B**)

The range selection is sent through the RY data of the module, each station occupies 8 bytes (64 bits), each channel occupies 1 byte (8 bits), and the channel order corresponds to the start of RY one by

one. For example, RY100 is the starting address, and the address of channel N for range configuration is: $Y100+N*8 \sim Y100+N*8+7$.

Configuration method

See "7.4 Application in the GX Works3 Software Environment".

7.2.3 Analog filter parameter setting function

The analog input filter function averages the A/D converted data internally to reduce the effects of fluctuations in the input signal due to noise.

Analog inputs are processed as moving averages

with a specified number of A/D conversions. Each

channel can be configured individually.

Configuration range: 1 to 1000; default 10;

The sampling rate of the 8-channel module is: 1.25KHZ/8 channels (800us/8 channels);

4-channel module sampling rate is: 2.5KHZ/4 channels (400us/4 channels).

The range selection is sent through the RWw data of the module, each station occupies 32 words (64 bytes), each channel occupies 1 word (2 bytes), and the order of the channels corresponds to RWw one by one. If RWw2000 is the starting address, the address of channel N to configure the range is: $RWw2000+N*16\sim RWw2000+N*16+15$.

Configuration method

See "7.4 Application in the GX Works3 Software Environment".

7.3 Configure the Modify IP function

7.3.1 Setting the IP address with rotary switches

- When the IP address is set by rotary switch from the factory state
 The IP address is 192.168.3. XXX (XXX is the setting value of the rotary switch, range 1 to 254).
- > When setting the IP address with the rotary switch from the state where the IP address has already been set, the IP address is set.

The IP address follows the high 3 bytes and the low 1 byte of the already set IP address as the setting of the rotary switch. For example, if you change the setting of the rotary switch after the IP address has been set to 172.10.0.12.

The IP address is 172.10.0.XXX (XXX is the setting of the rotary switch from 1 to 254).

caveat

- For a description of the rotary switch and how to operate it, see "<u>4.3 Rotary switch</u>".
- When the module is shipped from the factory, the rotary switch is set to "000" and the IP address is 192.168.3.100.
- Only the host bits of the IP address can be modified, not the network segment. If a segment has been assigned, the module forms an IP address from the assigned segment, if not, it forms an IP address from the 192.168.3 segment.
- Abnormal rotary switch setting: When the rotary switch is set to 255 or more than 255, the module will start with the IP modified by the previous host computer after powering up.

7.3.2 Modify IP address with Conf_TestTool_ToMaster.exe utility

- After the hardware connection is completed and power is supplied, turn the rotary switch to the IP host position to be assigned, and set the IP address of the computer installing the tool to the same network segment as the IP of the module. (For example, the default factory IP address of the module is 192.168.3.100, and the IP address of the computer can be changed to 192.168.3.11.)
- Open Conf_TestTool_ToMaster.exe, select "Step2.Test executed", select the network device to be used in "IP address (master station ID)", click "Detect Connected Device", record the MAC address in "serverMACAddr". Test executed", in "IP address (master station ID)", select the network device, click "Detect Connected Device", record the MAC address in "serverMACAddr".
- 3. Click "IP address setting of connected devices", fill in the recorded MAC address in "Slave station MAC address", fill in the IP address to be set for the slave station in "IP address to be set for the slave station", and click "Execute" to complete the IP address modification. "IP address to be set for the slave station", fill in the IP address that needs to be changed, click "Execute" to complete the IP address modification.

Caveat

- The module needs to be powered up and properly connected to the host computer.
- When modifying the same network segment, "Normally Processed" will pop up when the modification is successful; when modifying different network segments successfully, "Failed to set IP address" will pop up when the network segments are different and cannot be connected.

7.3.3 Setting the IP address from the host computer GX Works3

This section describes how to change the IP address, using the Mitsubishi FX-5U and GX Works3 as examples.

- a. Install the CSP file, see 7.4 Application in GX Works3 Software Environment for details.
- b. Create a project, see <u>7.4 Application in GX Works3 Software Environment</u> for details on how to create a project.
- c. Since the rotary switch is set to "000" and the IP address is 192.168.3.100 when the module is shipped from the factory, the IP addresses of the PLC and the module must be in the same network segment when connecting to the module for the first time, or else the scanning will not be successful directly.

I f the PLC is not in 3 network segments, in the left navigation interface, double click "Parameter -> CPU Module Model -> Module Parameter", set the PLC to be in 3 network segments under IP Address Setting, and select "Not Used" for the drop-down box of "Use or Not Use" for CC-Link IEF Basic, and click "Apply", as shown in the following figure. "Click "Apply", as shown in the figure below.

项目	设置	1
自节点设置	~~~~	
参数设置方法	在参数中设置	
e IP地址设置		
IP地址	192.168.3.6	
子网撞码	255 . 255 . 255 . 0	
默认网关		
□ 通过网络号/站号通信	禁用	
网络号与站号的设置方法	使用IP地址	ari I
网络号		
RUN中的写入允许/禁止设置	批	
通信数据代码	二进制	
设置打开方法	不在程序中OPEN	
CC-Link IEF Basie设置		
CC-Link IEP Basie 使用有无	不使用	~
网络配置设置	〈详细设置〉	
刷新设置	〈详细设置〉	
对象设备连接配置设置		
对象设备连接配置设置	〈详细设置〉	
通信用端口设置		
MIRICORF:潘信海口 IMP/TP	储用	
【使用】、【不使用】CC-Link IE现	场网络Pasico	
₩2000 (K)	1次夏八流((1)	_

□ ☆ 全部

町 模块配置图

🚹 初始

🖬 🟴 MAIN

恒完周期

🖬 🚵 ProgPou

🔒 局部标签

🖬 程序本体

■ 🛍 扫描

导航

盲 工程

🗉 🔚 程序



Click "Convert" in the menu bar, click "Convert All", as shown below. d.

语法检查(H)

设置(S)...

程序文件设置(P)...

工作表执行顺序设置(W)...

🕀 🐼 基本设置

🗄 🛅 应用设置

🕝 自节点设置

- CC-Link IEF Basic设罟

通信用端口设置

对象设备连接配置设置

Click "Online" in the menu bar, and then click "Write to Programmable Controller" to write е the set parameters to the CPU module of the master station, as shown in the figure below.

.

🔒 ProgPou [PRG] [LD] 2步

曲

IP地址

子网指

默认网

网络号

网络岩

站号

RUN中的

通信数据

🖯 通过网络



The "Online Data Operation" dialog box appears, select "Select All" and click "Execute", as shown in f. the following figure.

参数+程序(₹) 开闭全部树状结构(T)	全迭(A) 全部解除(N)	示例 ◆ CPU内]置存储器	1	I SD有	储卡	(1) 智	能功能模块		
模块型号/数据名		*	5		详细	标题		更新时间	大小(字节)
👔 工程未设置					1					
🖯 🔂 参数										
🥜 系統参数	CPU参数							2023/9/20 9:20:18	未计算	
🙆 模块参数								2023/9/20 9:46:33	未计算	
📓 存储卡参数	牧							2023/9/20 9:20:18	未计算	
- 1 远程口令								2023/9/20 9:20:18	未计算	
🖯 🛍 全局标签	V									
1 全局标签	V						2023/9/20 9:20:21	1 未计算		
🛛 🚰 程序			ぼうないでは、「注細」							
MAIN 🚰		N N			-	-	2023/9/20 9:20:21	未计算		
□ 圖 软元件存储器	8							-		
存储器容量显示(L) 😻									
(器容里 大小计算(I)	程序存储器									可用空间
										154/160KB
99	数据存储器									可用空间
已用容量										1755/204916
增加容量	約元件/标签存储器(又	1千仔储区域。	,							円用空間 192/256KB
减少容量										
剩余容量为5%以下 SD存储卡										可用空间

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g. Pop-up box "Parameters already exist, do you want to overwrite them?" Select "Yes to all" as shown below.

系统参数		~
		~
21省略无更改的	的文件的写入。	~
☐省略无更改的 是(¥)	的文件的写入。 全部是(A)	~

- h. At this point, the download of setup parameters is complete, click "Close".
- i. Power the module back up after disconnecting it from the PLC.
- j. After the PLC is re-powered up, the PLC has been set to 3 network segments, under the setting item interface, select "Use" for the drop-down box of "CC-Link IEF Basic Use or Not", double

click "Network Configuration", and click "Settings -> Detailed Settings", as shown in the following figure. Double click "Network Configuration -> Detailed Settings", as shown in the figure below.

项目		^
- 自节点设置		
参数设置方法	在参数中设置	
— 🕞 IP地址设置		
IP地址	192.168.3.6	
子网掩码	255 . 255 . 255 . 0	
默认网关		
-	禁用	
网络号与站号的设置方法	使用IP地址	
——————————————————————————————————————		
RUN中的写入允许/禁止设置	批	
通信数据代码	二进制	
设置打开方法	不在程序中OPEN	
- CC-Link IEF Basic设置		
CC-Link IEF Basic使用有无	使用	
网络配置设置	〈详细设置〉	
刷新设置	〈详细设置〉	
] 对象设备连接配置设置		
对象设备连接配置设置	〈详细设置〉	
] 通信用端口设置		
MRISORT诵信牌口 IMP/TP	· 信田	×

k. In the pop-up window of CC-Link IEF Basic Configuration, click "Automatic Detection of Connected Devices", a pop-up box will appear, select "Yes", as shown in the following figure. Select "Yes", as shown in the following figure.



I. When the scanning is complete, information about the connected modules is displayed as shown in the following figure.



m. To modify the PLC to use the 50 segment, click Reflect Settings and Close as shown below.

C	-Link	IEF B	asic配置(I) 编	¥辑(E) 补	见图(V) 取消	设置并关闭(是	A) 反映设置并关闭(R)									
	连接	设备的	的自动检测	链接	扫描设置											
*	154.012-1	女口刻	1 1			by Me and	RX/RY设置			RW	w/RWr设	買	40	In Sec. 1	am (4, 1)	2010/06/201
۳		台级	型	15	新写	站类型	点数	起始	结束	点数	起始	结束	≇⊞No.	保宙站	IP地址	了一四分配作为
	-	0	本站		0	主站									192. 168. 3. 6	255. 255. 255. 0
		1	CB4-A80V		1	从站	64(占用1站)	0000	003F	32	0000	001F	1	无设置	192. 168. 3. 100	255. 255. 255. 0
	<															>

n. Under Setting item interface, set PLC as 50 network segment under IP address setting, double click "Network Configuration Settings -> Detailed Settings", as shown in the following figure.

项目	设置	,
自节点设置		
参数设置方法	在参数中设置	
🕞 IP地址设置		
IP地址	192.168.50.6	
子网掩码	255 . 255 . 255 . 0	
默认网关	x x x	
□ 通过网络号/站号通信	禁用	
网络号与站号的设置方法	使用IP地址	
网络号		
站号		
RT中的写入允许/禁止设置	批里禁止(SLMP)	×
通信数据代码	二进制	
设置打开方法	不在程序中OPEN	
- CC-Link IEF Basic设置		
CC-Link IEF Basic使用有无	使用	
网络配置设置	〈详细设置〉	
刷新设置	〈详细设盂〉	
对象设备连接配置设置		-
对象设备连接配置设置	〈详细设置〉	
通信用端口设置		
MRISORT涌信津口 IMP/TP	備用	
o. In the CC-Link IEF Basic Configuration window, change the IP address of the module to the 50 segment as well, as shown in the following figure.

CC	-Link	IEF B	lasic配置(I)	编辑(E) 视图()	() 取消	设置并关闭(A) /	反映设置并关闭(<u>R</u>)									
	连持 总连挂	[设备]] 复台数	的自动检测]	链接扫描记	し置											
•		1.84		el 13	AL 11	N.L. Mc. and	RX/RY设置			RWw	v/RWr设	置	41 a.	R1 (92 A.).	TRUCH	2 64 MS 10
۳		TT SU		¥ '5	幼巧	助失宝	点数	起始	结束	点数	起始	结束	stino.	186 181 201	TP地4L	1.14436203
		0	本站		0	主站									192, 168, 50, 6	255. 255. 255. 0
		1	CB4-A80V		1	从站	64(占用1站)	0000	003F	32	0000	001F	1	无设置	192. 168. 50. 100	255. 255. 255. 0
	<															>
本站	1		4号1													
·二总数总	在接行 1 站数:	7 1 CE	34-A8 OV													>

 P. Right-click the slave device and select "Online -> Reflect communication settings of remote station" as shown in the following figure.

115	14: 19: 10	1名的白油	10 Shi 65 HG	1111111111111111111111111111111111111				_	_	_	_				
ja A	连按19	合物 「	T DESC	3.13回 62. 同											
						RX/RY设置			RW	w/RWr设	貿				
٣	ť	台数	型号	站号	站类型	点数	起始	结束	点数	起始	结束	组No.	保留站	IP地址	子网掩码
		0 本站		0	主站									192. 168. 50. 6	255, 255, 255, 0
		1 CB4-/	80V	1	从站	64(古用1站)	0000	003F	32	0000	001F	1	无设置	192. 168. 50. 100	255, 255, 255, 0
- 1															
- 1															
- 1															
	c														>
1		站号1													
		1 A A													
本站															
站号	0														
总连	接台														
数:1		CDA	删除(D)												
影响	W :1	0	在线(1) >	海接沿象	の向きが必須してい										
		<	11>0(r)	上按反面	1)回知可以到(1)	_									>
			属性(R)	反映从站	的通信设置(C)										
输出					的参数(S)										

q. The prompt box shown below pops up, click "OK".

	台数 0 1	型号 本站 CB4-A90V	站号 0 1	站类型 主站 从站	RX/RY设置 点数 64(占用1站) MELSOFT	。	结束 003F orks3 运制器Cf	RW 点数 32	w/R町1初 起始 00000 慶设备的	2世 结束 001F 1 約通信过れ	细No.	保留站 无设置	IP地址: 192.168.50.6 192.168.50.100 ×	子阿撞码 255, 255, 255, 255, 0 255, 255, 255, 0
	0	本25 CB4-A80V	0	主站 从站	64(占用198) MELSOFT	0000 GX Wo 可编程控 習时发生	加米 003F orks3 注制器Cf E错误。	32 32 2U与连持	RUXI 00000	311 001F 1 的通信过程	1 程中正在执行	无设置	192, 168, 50, 6 192, 168, 50, 100 × 站的通信设	255, 255, 255, 0 255, 255, 255, 0
8	1	CB4-ASOV	1	从站	64(占用1站) MELSOFT(①	0000 GX Wo 可编程挡 置时发生	003F orks3 2制器CF E错误。	32 2U与连持	0000 接设备的) 001F) 的通信过程	1. 一	无设置	192, 168, 50, 100	255, 255, 255, 0
					MELSOFT	GX Wo 可编程技 置时发生	orks3 包制器Cf E错误。	∿∪与连持	接设备的	的通信过剩	程中正在执行	行处理反映远程的	× 站的通信设	
< 本站]					<0x2c09 青确认是 或通信證 正在执行 通信路径 错误的详	9cf70> 皆否根据 百代 都径的可 可 可 可 清結 问 算 一 一 一 一 一 一 根 個 可 一 一 町 清 結 一 の 可 二 一 行 し 一 可 一 一 一 一 一 一 一 一 一 一 一 一 一	其他请 编程控制 東后重制 野连接 記	求正在挑 制器CPI 新执行。 可能是现 备的引	执行, U与网络灯 	是否有问题。 的错误。			
站号0 总连接f 数:1 总站数:	r 1 CE	U B4-AS OV											确定	

r. Or pop-up box as shown below, click "OK".

0	C-Link	IEF B	Basic配置(I) 编辑(E) 视图(() 取	肖设置并关闭(A)反日	央设置并关闭(B)									
	_ 连接 总连挂	设备 (设备) (表合数	的自动检测 链接扫描	艾買											
		2.90	HE LD.	AL D	AL 30 PH	RX/RY设置			RW	v/RWr 设	貿	MIN-	DO DO NO	TRUCK	264860
۳		TYSK	. 91 Y	312.12	30.9037	点数	起始	结束	点数	起始	结束	selivo.	196 111 201	телен.	1.1.416.8.3
	80	0	本站	0	主站									192. 168. 50. 6	255. 255. 255. 0
		1	CB4-A80V	1	从站	64(占用1站)	0000	003F	32	0000	001F	1	无设置	192. 168. 50. 100	255, 255, 255, 0
	¢	=	7757				MEL	SOFT G	X Work 남号 1的	us 3 Muladdia		× 已完成。 确定			,
本語	书 号0 还技(注1 站数:	T CI	B4-AS ov										-		,

C	C-Link	IEF B	asic配置(I)	编辑(E) 礼	视图(Y) 取消	设置并关闭(A) 反映设置并关闭(B)									
	连接	设备的	自动检测	链接	扫描设置		· · · · · · · · · · · · · · · · · · ·									
	总连挂	始数	1				- may /may 1/L 68			0.07	(mm 3/3	. 191				
٣		台数		型号	站号	站类型		to+hto	結正	11 86	ha hla	伝道	细No.	保留站	IP地址	子网掩码
	-	0	木站		0	主站	. 245.388	KH MI	211.7%	74.384	KE XI	21.2%			192, 168, 50, 6	255, 255, 255, 0
		1	CB4-A80V		1	从站	64(古用1站)	0000	003F	32	0000	001F	1	无设置	192. 168. 50. 100	255. 255. 255. 0
	<															>
		- 20	·母1													
1																
本3	<i>li</i>															
2	150															
1	:1	1														
12	站数::	1 CE	I4-AS													
		-	01													>
1		`														,
输	出	_									_					

t. After clicking "Apply", repeat steps d~i as shown below.

 ● 自节点设置 ● 参教设置方法 ← 参教设置方法 ← 正地址设置 ← 正地址 ● 工坪地址 ● 192 . 168 . ← 子阿獲码 255 . 255 . 野认风关 ● 通过网络号/站号通信 禁用 ● 网络号与站号的设置方法 使用正地址 ● 网络号 ● 动号 ● 一 	50. 6 255. 0
 ●参教设置方法 在参数中设置 □ IP地址设置 □ IP地址设置 □ IP地址 192 . 168 . □ 子阿擁码 255 . 255 . B认网关 B认网关 B 通过网络号/站号通信 禁用 网络号与站号的设置方法 ● 网络号 → 动号 	50 . 6 255 . 0 ~
□ IP地址设置 192.168. □ 子內撞码 255.255. 默认网关 255.3256. ● 通过网络号/站号通信 禁用 □ 网络号/站号通信 禁用 □ 网络号与站号的设置方法 使用IP地址 □ 网络号 动号	50 . 6 255 . 0 -
IP地址 192.168. 子內濱码 255.255. 默认网关	50. 6 255. 0
→ 子阿積码 255.255. ⇒ 默认网关	255 . 0
 ■ 默认网关 ■ 通过网络号/站号通信 禁用 ● 网络号与站号的设置方法 使用III地址 ● 网络号 ● 网络号 ● 动路号 ● 动路号 	X
通过网络号/站号通信 禁用 网络号与站号的设置方法 使用III地址 网络号 — 网络号 — 动号 —	
网络号与站号的设置方法 使用II地址 网络号 —— 站号 ——	
网络号 —— 站号 ——	
站号	
RUN中的写入允许/禁止设置 批里禁止(SL	MP)
通信数据代码 二进制	
设置打开方法 不在程序中0	PEN
e CC-Link IEF Basie设置	
CC-Link IEF Basic使用有无 使用	
— 网络配置设置 〈详细设置〉	
→ 刷新设置 〈详细设置〉	
🖂 对象设备连接配置设置	
对象设备连接配置设置 〈详细设置〉	
□ 通信用端口设置	
MARI CUBAT 法信持口 IMP/TP 借田	

u. After the PLC is re-powered, the network segments of the PLC and the module are in the same network segment, and the IP change setting is successful. If the PLC and the module have already communicated successfully, you only need to perform steps m~t to change the IP.

7.3.4 Reset operation and restoration of factory settings

- 1. If the IP address is forgotten, lost or other abnormal conditions occur during use, the IP address of the module can be reset through the reset function. Set the rotary switch to 0, press and hold the reset button for more than 1s until the RUN light and ERR light flash alternately. If the rotary switch is not 0 and a reset is performed, the assigned IP parameters of the module will be cleared and the default network bit 192.168.3 will take effect, with the host bit equal to the current rotary switch setting.
- 2. If the rotary switch is 0 or greater than 254, perform the reset operation, then reset the module IP address to 192.168.3.100, that is, restore the factory settings.
- 3. The reset operation only clears the IP address, but not the channel parameter configuration.

Caveat

- When the module is powered on, press and hold the reset button for more than 1s until the RUN and ERR lamps flash alternately and release it immediately.
- Use an insulated tool with a diameter or thickness of less than 1.2mm for th



7.4 Application in GX Works3 software environment

1. Preparations

- Hardware environment
 - > Module preparation
 - This description uses the CB4-A80V module as an example
 - > One computer with GX Works3 software pre-installed
 - > Mitsubishi PLC one, this description to FX-5U for example
 - > CC-Link IE Field Basic Specialized Shielded Cable
 - > One switching power supply
 - > Module mounting rails and rail mounts
 - Device Configuration Files
 Configuration file access: https://www.solidotech.com/documents/configfile
- Hardware configuration and wiring
 Follow "<u>5 Mounting and dismounting</u>" and "<u>6 Wiring</u>".

2. Installation of CSP files

a. Open the GX Work3 software, click "Tools" in the menu bar, and then click "Profile Management -> Login", as shown in the following figure.



b. In the pop-up box, select the CSP file you want to add and click "Login" to complete the installation, as shown below.

配置文件登录					\times
查找范围(I):	CSP文件		• +	🗈 💣 🎟	•
-	名称	^		修改日期	
快速访问	1 0x3292_CB	4-A80V_2.0.1_en.CSPF	P.zip	2022/1/2	4 17:48
桌面					
-					
库					
此电脑					
(学) 网络					
	۲				>
	文件名(N):	0x3292_CB4-A80V_2.0). 1_en. CSPP. zip	-	登录(R)
	文件类型(T):	支持的所有的格式		•	取消

Note: Configuration files do not need to be unpacked, you need to close the project when installing; configuration files, if you need to replace, be sure to uninstall before adding.

3. Creating projects

- a. Click "Project" in the menu bar and click "New Project".
- b. The New Project dialog box pops up, select "FX5CPU" for PLC series, "FX5U" for PLC type, and the default program language is ladder diagram.

с.	Click	OK,	as	shown	below.

新建		\times
系列(<u>S</u>)	■ FX5CPU	~
机型(<u>T</u>)	🖀 FX5U	~
运行模式(M)		~
程序语言(<u>G</u>)	■ 梯形图	×
	确定	取消

List of supported masters for CB4 module:

MELSEC iQ-R	
Brand name	model number
Programmable controller	CPUR00CPU, R01CPU, R02CPU, R04CPU, R04ENCPU, R08CPU,
	R08ENCPU, R16CPU, R16ENCPU, R32CPU, R32ENCPU, R120CPU,
	R120ENCPU
C Controller Module	R12CCPU-V
MELSEC iQ-L	
CPU Module	L04HCPU, L08HCPU, L16HCPU
MELSEC iQ-F	
FX5UJ CPU Module	FX5UJ-24MR/ES, FX5UJ-24MT/ES, FX5UJ-24MT/ESS, FX5UJ-
	40MR/ES, FX5UJ-40MT/ES, FX5UJ-40MT/ESS, FX5UJ-60MR/ES,
	FX5UJ-60MT/ES, FX5UJ-60MT/ESS
FX5U CPU Module	FX5U-32MR/ES、FX5U-32MT/ES、FX5U-32MT/ESS、FX5U-64MR/ES、
	FX5U-64MT/ES、FX5U-64MT/ESS、FX5U-80MR/ES、FX5U-80MT/ES、
	FX5U-80MT/ESS、FX5U-32MR/ DS, FX5U-32MT/DS, FX5U- 32MT/DSS,
	FX5U-64MR/DS, FX5U-64MT/DS, FX5U-64MT/DSS,
	FX5U-80MR/DS, FX5U-80MT/DS, FX5U-80MT/DSS
FX5UC CPU Module	FX5UC-32MT/D, FX5UC-32MT/DSS, FX5UC-64MT/D, FX5UC-
	64MT/DSS, FX5UC-96MT/D, FX5UC-96MT/DSS, FX5UC-32MT/DS-
	TS, FX5UC-32MT/DSS-TS, FX5UC-32MR/DS-TS
FX5 Intelligent Function	FX5-ENET
Module	
MELSEC-Q	
General-purpose high-speed	Q03UDVCPU, Q04UDVCPU, Q06UDVCPU, Q13UDVCPU,
type QCPU	Q26UDVCPU
MELSEC-L	
Ethernet port with built-in	L02CPU, L02CPU-P, L06CPU, L06CPU-P, L26CPU, L26CPU-P,
LCPU	L26CPU-BT, L26CPU-PBT
MELIPC	
MELIPC MI5000 Series	MI5122-VW

4. Setting up to use CC-Link IE Field Network Basic

a. In the left navigation interface, select "Parameter -> CPU Module Model", double click "Module Parameter", set the IP address of CPU under IP Address Setting, and select "Use" in the drop-down box of "Use or not use" of CC-Link IEF Basic, as shown in the following figure. Select "Use" in the drop-down box of "Use or not" of CC-Link IEF Basic, as shown in the following figure.

设置项目一览	设置项目	
大山桧) 東柳赤的沿岸活中 🎽	项目	设置
住 此 柳 八 安 按 条 时 吱 血 坝 白	🕞 自节点设置	
	IP地址设置	
	IP地址	192 . 168 . 3 . 250
□	子网摘码	255 . 255 . 255 . 0
● ● 自节点设置	默认网关	
	通信数据代码	二进制
对象设备连接配置设置	⊨ CC-Link IEF Basic设置	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	CC-Link ISP Basie 使用有无	使用
	网络配置设置	〈详细设置〉
	刷新设置	〈详细设置〉
	⊟ IODBUS/TCP设置	
	MODBUS/TCP 使用有无	未使用
	軟元件分配	〈详细设置〉
	🖂 对象设备连接配置设置	
	对象设备连接配置设置	〈详细设置〉

Note: You need to set the IP of CPU and CB4-A80V to the same network segment.

b. Under the Settings item interface, select "Network Configuration Settings" and double-click "Detailed Settings", as shown in the following figure.

设置项目一览	设置项目	
	项目	 设置
	🕞 自节点设置	
	IP地址设置	
	IP地址	192 . 168 . 3 . 250
🖃 💽 基本设置	子网摘码	255 . 255 . 255 . 0
	默认网关	
₩ODBUS/TCP沿署	通信数据代码	二进制
对象设备连接配置设置	⊖ CC-Link IEF Basic设置	
☆ 🚡 应用设置	CC-Link IEP Basie 使用有无	使用
	网络配置设置	〈详细设置〉
	刷新设置	〈详细设置〉
	⊟ TODBUS/TCP设置	
	MODBUS/TCP 使用有无	未使用
	軟元件分配	〈详细设置〉
	日 对象设备连接配置设置	
	对象设备连接配置设置	〈详细设置〉

c. In the pop-up window of CC-Link IEF Basic Configuration, click "Auto Detection of Connected Devices" to automatically add the connected modules to the network, as shown in the following figure.

~~ 11					RX/RY设置			RWw	/RWr设	買	1000	designed as		
	台数	껲号	站号	站类型	点数	起始	结束	点数	起始	结束	捫No.	保留站	IP地址	子网擅码
	0	本站	0	主站									192. 168. 3. 250	255. 255. 255.
8	1	CB4-ASOV	1	从站	64(占用1站)	0000	003F	32	0000	001F	1	无设置	192, 168, 3, 100	255, 255, 255,
		843												

5. Refresh side setting

- a. In the left navigation interface, select "Parameter -> CPU Module Model", and double click "Module Parameter".
- b. Under Setting item interface, select "CC-Link IEF Basic Setting -> Refresh Setting", double click
 "Detailed Setting", as shown in the following figure.

设置项目一览	设置项目	
左此给》更搜索的沿黑顶白	项目	 设置
	🕞 自节点设置	
	□ □ IP地址设置	
	IP地址	192 . 168 . 3 . 250
□ 🙋 基本设置	子网摘码	255 . 255 . 255 . 0
	默认网关	
────────────────────────────────────	通信数据代码	二进制
对象设备连接配置设置	□ CC-Link IEF Basic设置	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	CC-Link ISP Basie 使用有无	使用
	网络配置设置	<详细设置>
	刷新设置	〈详细设置〉
	⊟ TODBUS/TCP设置	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	MODBUS/TCP使用有无	未使用
	軟元件分配	〈详细设置〉
	🖂 对象设备连接配置设置	
	对象设备连接配置设置	〈详细设置〉

c. Configure the relevant parameters, after the configuration is complete, click "Apply", as shown in the

following figure.

设置项目一览	设置项目									
在此输入要搜索的设置项目										
		链接侧	ı				CPU	侧		
	软元件名	点数	起始	结束		刷新目标	软元件名	点数	起始	结束
	RX	128	00000	0007F	+	指定软元 ~	X 🗸	128	100	277
	RY	128	00000	0007F	+	指定软元 ~	¥ ~	128	100	277
MODBUS/TCP设置	RWr	64	00000	0003F	+	指定软元 ~	D 🗸	64	1000	1063
□	RWw	64	00000	0003F	+	指定软元 ~	D ~	64	2000	2063
0.004	说明									
	设置则新范围	的起始的	CPU软元(\$1111111111111111111111111111111111111	牛号。					^
	检查((K)		忱	R 夏为默	ቲአ (ህ)				
									应用(A)	

6. Download setup parameters

a. Click "Convert" in the menu bar, click "Convert All", as shown below.

: 工程(P) 编辑(E) 搜索/替换(F)	转换(C)	视图(V)	在线(0)	调试(B)	记录(R)	诊患
i 🗅 🔁 💾 🎒 🗐 🖉	易转	换(B)	-	F4	a a	-
1 🔁 🗉 🖃 🛗 🖬 🖼	学 	换+KUN中	与人(0)	Shift+F4	ia- 10	100
导航 ♀×	骨 全	部转换(R)	Shift	+Alt+F4	ProgPo	ou (PR
	语	法检查(H)		•	设置项目	
全部 ▼	程	序文件设置 (*	(P)			
着工程	<u></u>	作表执行顺	序设置(W)		-	
11 模块配置图	设	置(S)			_	
🗄 🔚 程序		基本设置		1	软元件	名
🚰 FB/FUN		2 自节点说	受置	2012/2022	RX	
🗉 🕼 标签		🕤 CC-Link	IEF Basi	设置	RY	
国 🧖 软元件		MODBUS/	TCP设置	.n. 🛥	RWr	
■ (), 参数	E I	、刘家设有 新田语罢	的主接附立了	反直	RWw	

🜃 MELSOFT GX Works3 (工程未设置) - [模块参数 以太网端口]

 b. Click "Online" in the menu bar, and then click "Write to Programmable Controller" to write the set parameters to the CPU module of the master station, as shown in the figure below.
 III MELSOFT GX Works3 (工程未设置) - [模块参数 以太网端口]



c. The "Online Data Operation" dialog box will pop up, select "Select All", as shown in the following figure

5X		w 🛄	Ø]檢	â 🛄.	∕∕≣ ∎##	î.		
参数+程序(F) F闭全部树状结构(T	全选(A)) 全部解除(N)	示例 ◆ CPU内)置存储器	1	SD:	存储卡	🚯 智能功能模块		
缺型号/数据名		*	8	(详细	标题	更新时间	大小(字节)	
📲 工程未设置									
🗆 🚮 参数		•							
🥜 系统参数	/CPU参数						2020/3/17 10:33:25	未计算	
📑 🤷 模块参数		•					2020/3/17 10:45:56	未计算	
📲 存储卡参	数						2020/3/17 10:33:23	未计算	
🔤 🔐 远程口令		•					2020/3/17 10:33:23	未计算	
🖯 🋗 全局标签									
1 全局标签	设置						2020/3/17 10:33:26	未计算	
🖻 🔙 程序									
MAIN 🚰		•			-		2020/3/17 10:33:28	0	
🖯 🙆 软元件存储	8								
存储器容量显示(器容量 大小计算(T)	L) 逐 □ 写入前 程序存储器	执行存储器	容里检查						可用空间
八小川神(1)									63997/64000步
9 已用容量	数据存储器 程序: 1016/1024KB	版	复信息:	1021/102	24 KB	参数: 995/10241	3B 软元件注释:20	47/2048KB	可用空间
増加容量 減少容量	SD存储卡 ———								可用空间 0/0KB
剩余容量为5%以下	程序: 0/0KB		复信息:	0/0 KB		参数:0/0KB	軟元件注释: 0/1)KB	

- d. Click on "Execute".
- A popup box appears, "After executing Remote STOP, do you want to execute PLC Write?" Select "Yes".
- f. A lower level prompt box pops up "Parameters already exist, do you want to overwrite them?" Select "Yes to all".
- g. A lower level prompt box pops up "No data exists in the soft component comment (COMMENT). No write was performed." Click OK.
- h. A prompt box "The CPU is in STOP state. Select "Yes".

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- i. A pop-up box "Completed", click "OK".
- j. At this point, the download of setup parameters is complete, click "Close".
- k. Power the module back up after disconnecting it from the PLC.

7. Adding soft components or buffer memory

a. Select "Online -> Monitor -> Monitor Start" as shown below.



 Select "Online -> Monitor -> Bulk Monitor for Soft Components/Cache Storage" as shown in the following figure.

11 MELSOFT GX Works3 (工程未设置) - [ProgPou [PRG] [ST] 监视执行中 (只读) 3步]



> Analog process data

For analog process data, as shown below, add D1000, each channel occupies 16 bits, D1000 corresponds to channel 0, D1001 corresponds to channel 1, and so on;

When used in cascade, RWr occupies 32 words (64 bytes) in each station, as shown in the figure below, the starting address of the first module is D1000, and the starting address of the second module is D1032.

● 软元件名	(N)		D	100	0		_	_	_	_	_	_	_	_	2	~		
○ 缓冲存储		智能模块 号(V)													~	(16进制) :	−————————————————————————————————————	
软元件名	F	E	D	C	в	A	9	8	7	6	5	4	3	2	1	0	当前值	字符串
D1000	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	-7	2
D1001	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	7	4
D 1002	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	7	9
D 1003	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	+
D1004	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	15	<u>21</u>
D 1005	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	12	40
D1006	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	25	+
D 1007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D 1008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D 1009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	÷.
D1010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+
D1011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D1012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.5
D1013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
D1014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+
D1015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D1016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<u></u>
D1017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D1018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
D1019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D 1020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
D1021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

> Analog range configuration function

For analog range selection parameters, as shown in the following figure, add Y100, each channel occupies 8 bits, Y100 corresponds to channel 0, Y110 corresponds to channel 1, and so on;

In the following figure, channel 0 is configured as range 0, channel 1 is configured as range 1, channel 2 is configured as range 2, and channel 7 is configured as range 7.

When used in cascade, RY occupies 64 bits (8 bytes) in each station. the starting address of the first module is Y100, and the starting address of the second module is Y100+8 bytes. as shown in the following figure, the starting address of the first module is Y100, and the starting address of the second module is Y200.

◉ 软元件:	名(N)		Y	100)	~				
◯ 缓冲存f	诸器(M)		智号	能 (1)	模 [」]	決				×
航元件 名	7	6	5	4	3	2	1	0		
Y100	0	0	0	0	0	0	0	0		
Y110	0	0	0	0	0	0	0	1		
Y120	0	0	0	0	0	0	1	0		
Y130	0	0	0	0	0	0	1	1		
Y140	0	0	0	0	0	1	0	0		
Y150	0	0	0	0	0	1	0	1		
Y160	0	0	0	0	0	1	1	0		
Y170	0	0	0	0	0	1	1	1		
Y200	0	0	0	0	0	0	0	0		
Y210	0	0	0	0	0	0	0	0		
Y220	0	0	0	0	0	0	0	0		
Y230	0	0	0	0	0	0	0	0		
Y240	0	0	0	0	0	0	0	0		
Y250	0	0	0	0	0	0	0	0		
Y'260	0	0	0	0	0	0	0	0		
Y270	0	٥	0	0	0	0	0	0		
Y300	0	0	0	0	0	0	0	0		
Y310	0	0	0	0	0	0	0	0		
Y320	0	0	0	0	0	0	0	0		

> Analog filter parameter setting function

The analog input filter parameters, as shown in the following figure, add D2000, each channel occupies 16 bits, D1000 corresponds to channel 0, D2001 corresponds to channel 1, and so on;

In the figure below, channel $0\sim$ channel 7 are configured as 10;

When used in cascade, RWw occupies 32 words (64 bytes) in each station, as shown in the following figure, the starting address of the first module is D2000, and the starting address of the second module is D2032.

◉ 软元件谷	◉ 软元件名(N)							_	_	_	_	_							
○ 缓冲存储		智号	能 (U	模 ¹	决										~	(16进制) 地	址(A)		
航元件名	F	E	D	C	в	A	9	8	7	6	5	4	3	2	1	0	当前值	李符串	
D2000	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	10	-	
D/2001	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	10		
D2002	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	10	-	
D2003	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	10	-	
D2004	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	10	-	
D2005	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	10		
D2006	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	10	4	
D2007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	10	-	
D2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
D2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
D2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
D2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
D2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
D2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
D2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
D2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
D2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
D2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	

8 faq

Is it possible to change the IP address of the module through the host computer?
 When the rotary switch is not 0, the IP address can also be changed by the host computer, but after rebooting the module, the host bit of the IP is the rotary switch value.