



User Manual

**SRX**

PRO  
Remote IO Module  
IO

1.	.....	4
1.1	.....	5
1.2	.....	5
1.3	.....	5
1.4	.....	5
2.	.....	6
2.1	.....	7
2.2 SRX-PN	.....	8
2.2.1 DI	.....	8
2.2.2 DQ	.....	8
2.2.3 AI	.....	9
2.2.4 AQ	.....	9
2.2.5 PROFINET	.....	10
2.2.6	.....	10
3.	.....	11
3.1	.....	12
3.2	.....	12
4.	.....	13
4.1 SRX-PN	.....	14
4.2 SRX-PN	.....	15
4.3	.....	16
4.4 LED	.....	16
4.4.1	.....	16
4.4.2 I/O	.....	16
4.4.3 RJ45	.....	17
4.5	.....	17
4.6	.....	18
4.7	.....	19
4.7.1	.....	19
4.7.2	.....	29
5.PROFINET	.....	33
5.1 PROFINET IO	.....	34
5.2	.....	34
5.3 SRX-PN	.....	36
5.4	.....	36
6.	.....	47
6.1 GSDML	.....	47
6.1.1	.....	48
6.1.2 GSD	.....	48
6.1.3 GSD	.....	50
7.	.....	51
7.1 V14 IO	.....	52
7.2	.....	52

---

7.3	.....	52
7.4	.....	52
7.5	.....	52
7.5.1	.....	52
7.5.2	.....	53
7.6	IO	58
7.7	.....	61





PROFINET® PI

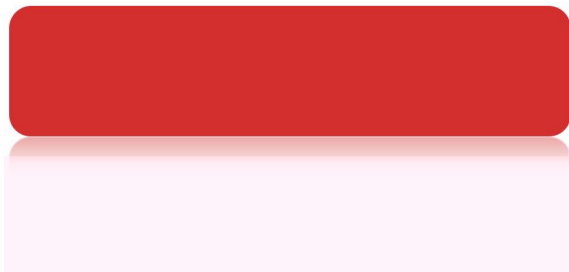
IP20

V1.0	2021.11.03	
V1.1	2022.03.22	

IEC11631-22007 Programmable controllers –Part 2:Equipment requirements and tests

IEC/TR 61158 -

IEC61784-1 -





DI

2

1		16
2		2 bytes
3	Ton	Type. 18uS / Max. 35uS
4	Toff	Type. 135uS / Max. 250uS
5		
6		
7		24 V DC (-15 %/+ 20 %), (IEC 61131-2, type 2)
8	"0"	-3...+5 V (IEC 61131-2, type 2)
9	"1"	15...30 V (IEC 61131-2, type 2)
10		Typ. 10mA/Ch (IEC 61131-2, type 2)
11		/ 500V DC

MOSFET

DQ

3

1		16
2		2 bytes
3	Ton	Type. 12uS / Max. 25uS
4	Toff	Type. 10mS / Max. 20mS ( )
5		
6		
7		
8		24 V DC (-15 %/+ 20 %), (IEC 61131-2, type 2)
9		Max. 0.5 A /Ch,
10		8A





PROFINET

6

3

MOSFET

3

0V

24V DC (-15 %/+ 20 %)

0.5A

I/O

500V DC

24V DC (-15 %/+ 20 %)

16\*10mA

I/O

500V DC

MOSFET

24V DC (-15 %/+ 20 %)

16

...

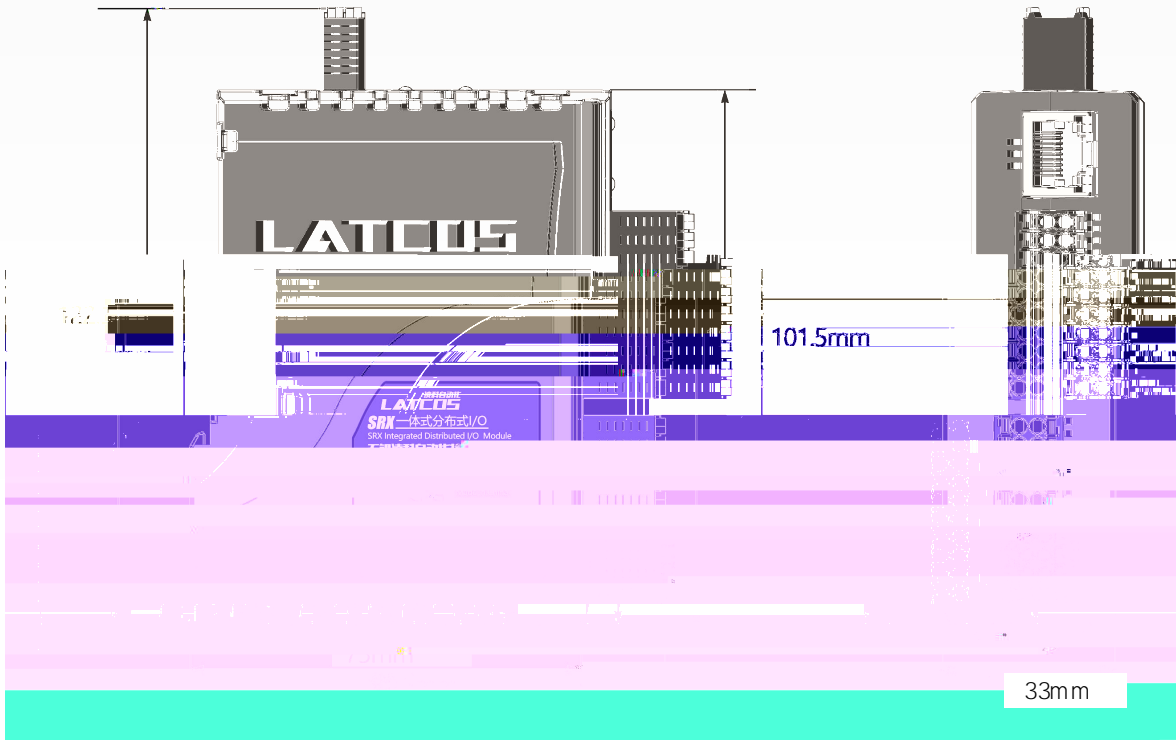




SRX

IP20

33 \* 122.5 \* 90.5 W/H/D mm



SRX

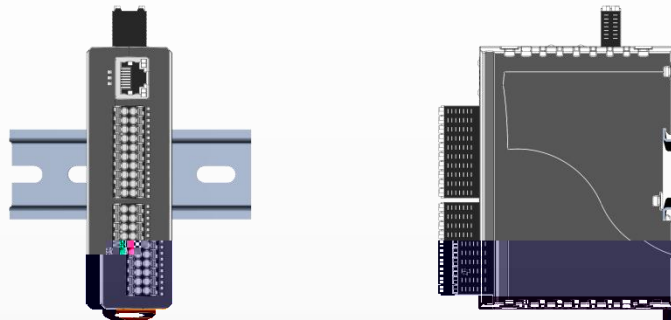
25 mm

DIN

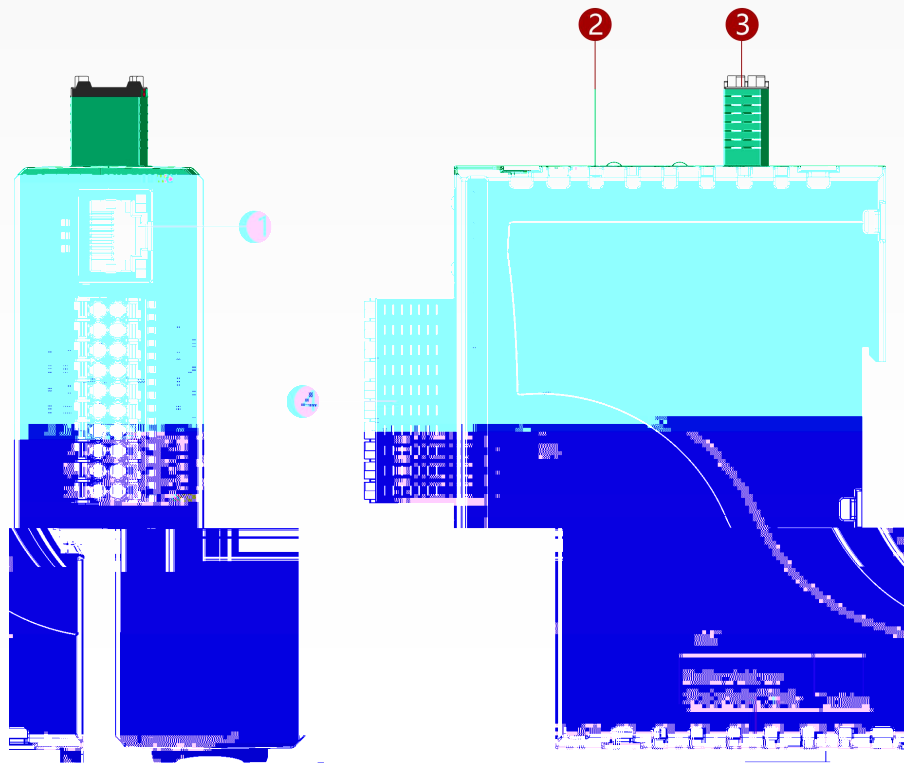
75 mm

TS35/7.5

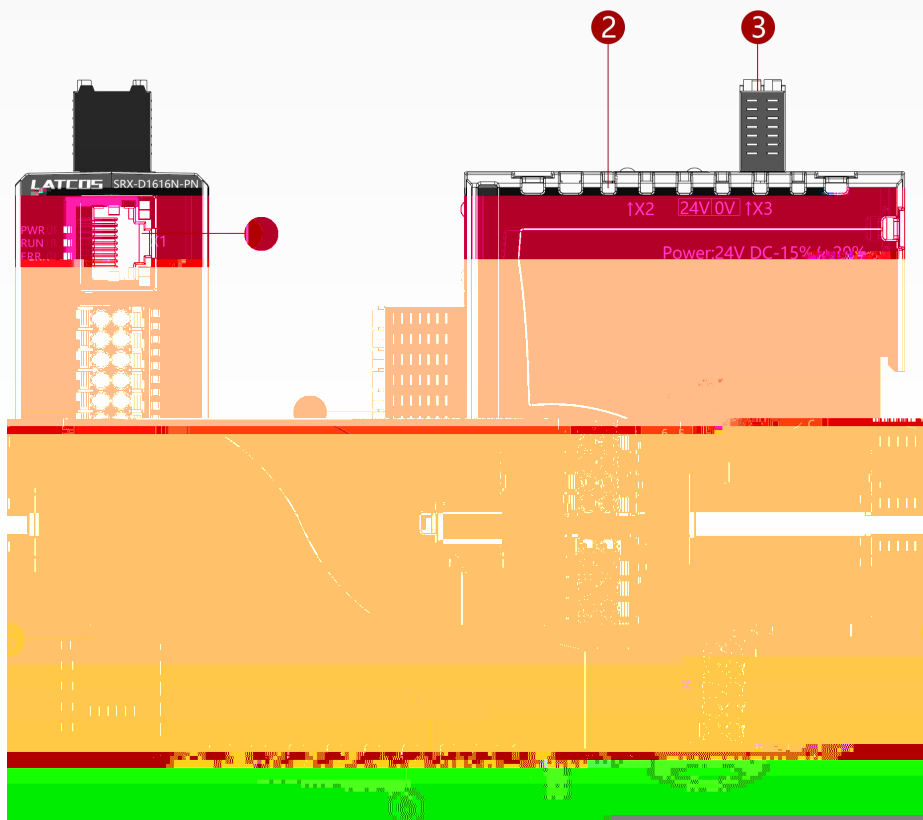
2



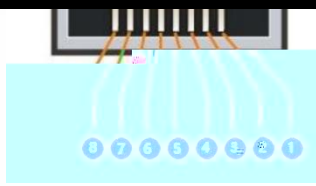




	X1	RJ45	PLC PC
	X2	RJ45	PLC PC
	X3	24V	
	X4		
	X6		



	X1	RJ45	PLC PC
	X2	RJ45	PLC PC
	X3	24V	
	X4		
	X5		
	X6		



LED 3



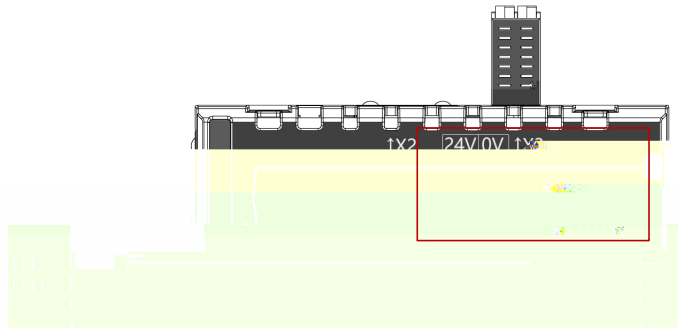
RJ45

RJ45

Hub

8 8 RJ45

○		RJ45
●		RJ45
	○	RJ45
	●	RJ45



24V	24V
0V	0V

I/O

24V DC (-15 %/+ 20 %)

0.5A

500V DC



1		1	0
2		2	0
3		4	0
4		8	0
5		16	0
6		32	0
7			

a,

7

OFF

b,

7

ON

1-6

SRX-PN

\*

1 2 7 ON

7 ON

SRX-PN\_3, 3

1+2=3

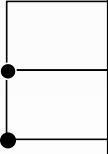
**SRX-D0808P-PN**

# SRX-D0808N-PN

DI

X4

DO



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
24V	L	L	24V
0V	M	M	0V

# SRX-D1600-PN

DI **X4** DI

0	0	8	0
1	1	9	1
2	2	A	2
3	3	B	3
4	4	C	4
5	5	D	5
6	6	E	6
7	7	F	7
	S/S	S/S	
	NC	NC	



**SRX-D0016P-PN**

DO	X4	DO	
0	0	8	0
1	1	9	1
2	2	A	2
3	3	B	3
4	4	C	4
5	5	D	5
6	6	E	6
7	7	F	7
24V	L	L	24V
0V	M	M	0V


# SRX-D0016N-PN

DO

X4

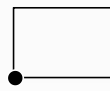
DO

0	0	8	0
1	1	9	1
2	2	A	2
3	3	B	3
4	4	C	4
5	5	D	5
6	6	E	6
7	7	F	7
24V	L	L	24V
0V	M	M	0V



# SRX-D3200-PN

DI **X4** DI



1			
2	2	A	
3	3	B	
4	4	C	4
5	5	D	5
6	6	E	6
7	7	F	7
	S/S	S/S	
	NC	NC	

DI **X5** DI

0	0	8	0
1	1	9	1
2	2	A	2
3	3	B	3
4	4	C	4
5	5	D	5
6	6	E	6
7	7	F	7
	S/S	S/S	
	NC	NC	



---

## SRX-D0032P-PN

DO

X4

DO

DO

X5

DO

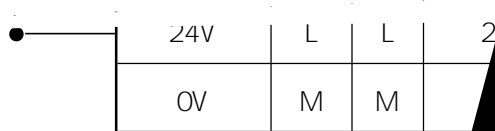
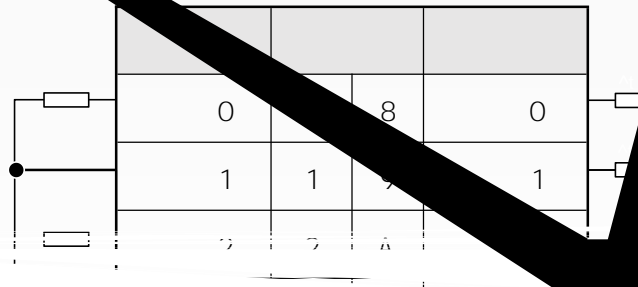


# SRX-DO032N-PN

DO

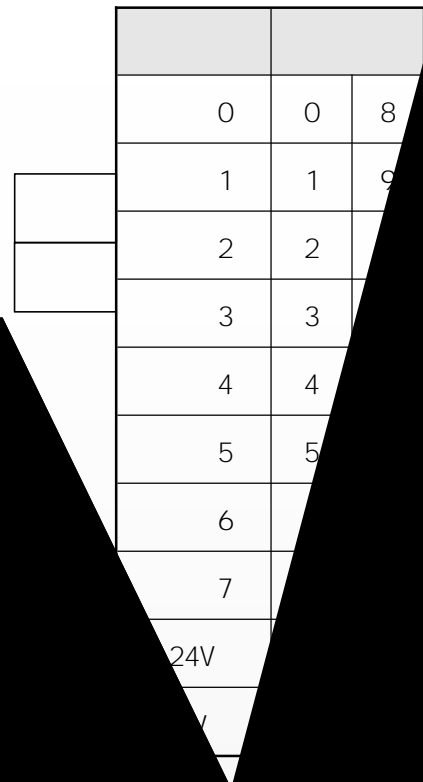
X4

DO



DO

X5



# SRX-D1616P-PN

DI

X4

DI

0	0	8	0
1	1	9	1
2	2	A	2
3	3	B	3
4	4	C	4
5	5	D	5
6	6	E	6
7	7	F	7
	S/S	S/S	
	NC	NC	

DO

X5

DO

0	0	8	0
1	1	9	1
2	2	A	2
3	3	B	3
4	4	C	4
5	5	D	5
6	6	E	6
7	7	F	7
24V	L	L	24V
0V	M	M	0V





## SRX- 0600-PN



	PE	PE	
1	GND1	GND4	4
1	I1	I4	4
1	V1	V4	4
2	GND2	GND5	5
2	I2	I5	5
2	V2	V5	5
3	GND3	GND6	6
3	I3	I6	6
3	V3	V6	6

## SRX- 0004-PN



# SRX- 0604-PN



	PE	PE	
1	GND1	GND4	4
1	I1	I4	4
1	V1	V4	4
2	GND2	GND5	5
2	I2	I5	5
2	V2	V5	5
3	GND3	GND6	6
3	I3	I6	6
3	V3	V6	6



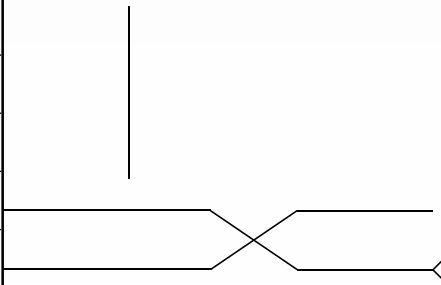
|--|--|--|--|

1	I1	I3	3
1	V1	V3	3
1	GND1	GND3	3
2	I2	I4	4
2	V2	V4	4
2	GND2	GND4	4
	NC	NC	
	PE		

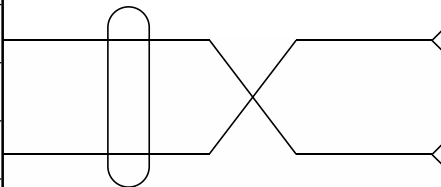
# SRX- 1200-PN

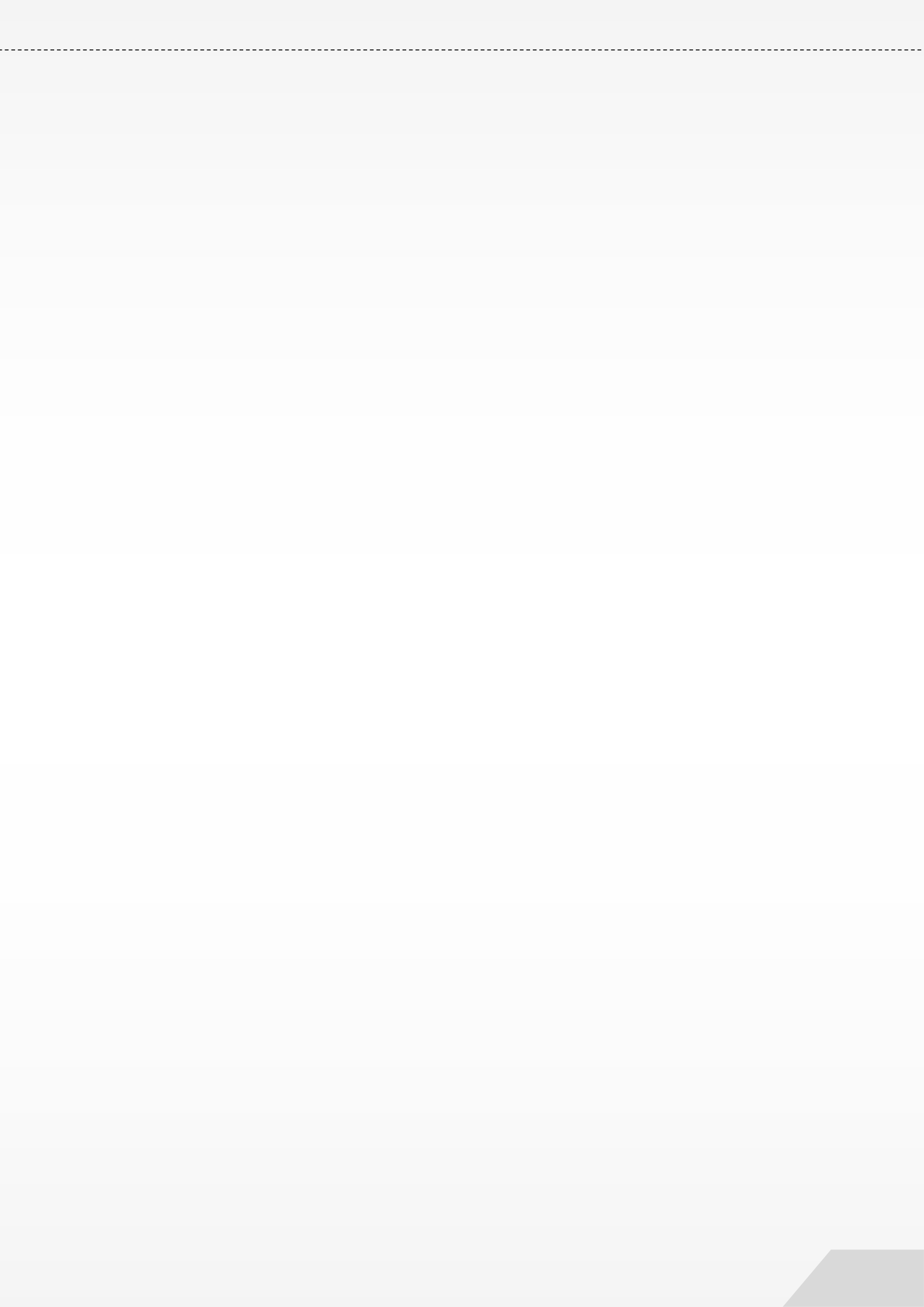


	PE	PE	
1	GND1	GND4	4
1	I1	I4	4
1	V1	V4	4
2	GND2	GND5	5
2	I2	I5	5
2	V2	V5	5
3	GND3	GND6	6
3	I3	I6	6
3	V3	V6	6



	PE	PE	
1	GND1	GND4	4
1	I1	I4	4
1	V1	V4	4
2	GND2	GND5	5
2	I2	I5	5
2	V2	V5	5
3	GND3	GND6	6
3	I3	I6	6
3	V3	V6	6





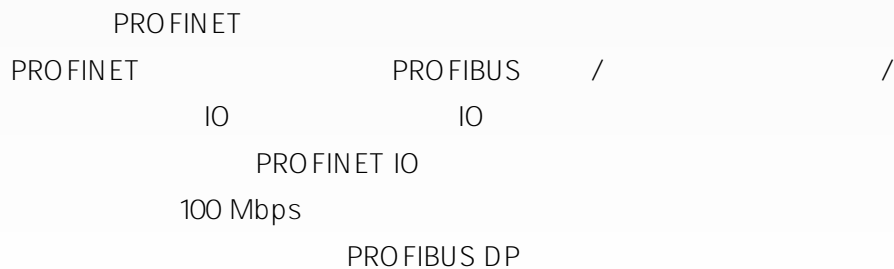




:

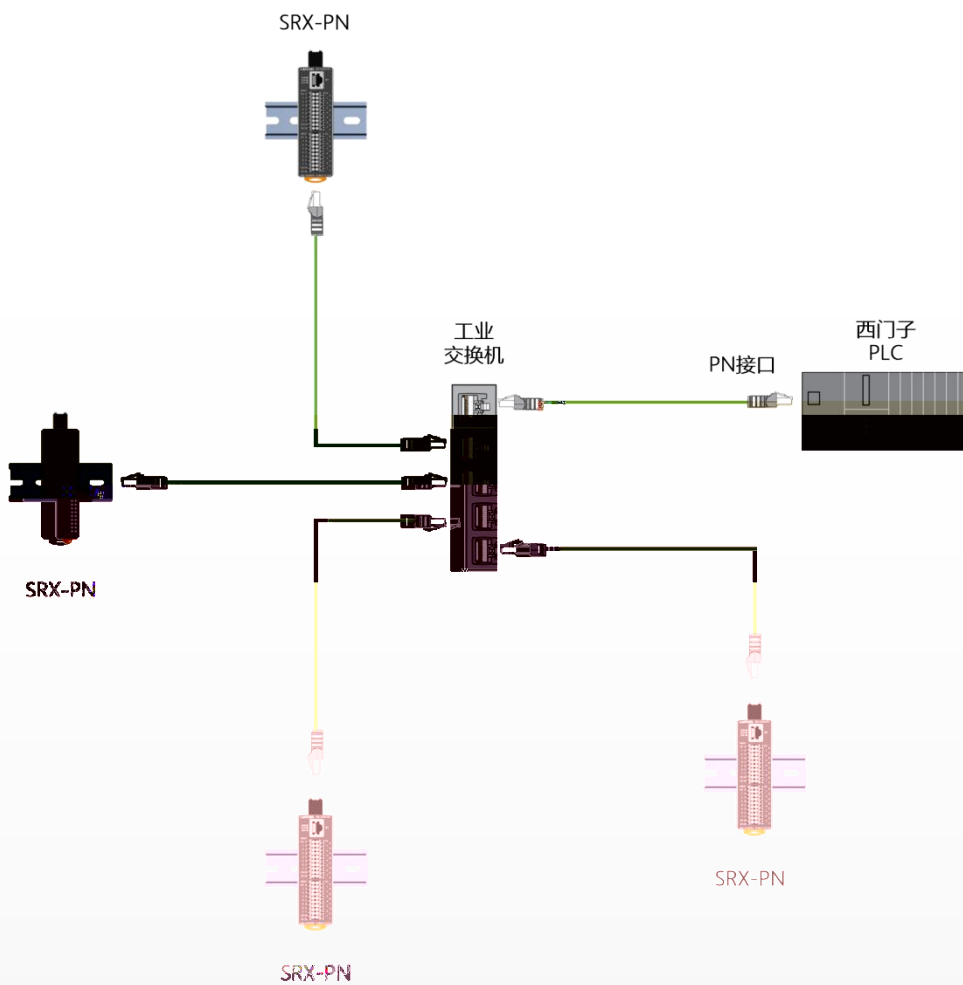
PROFINET IO

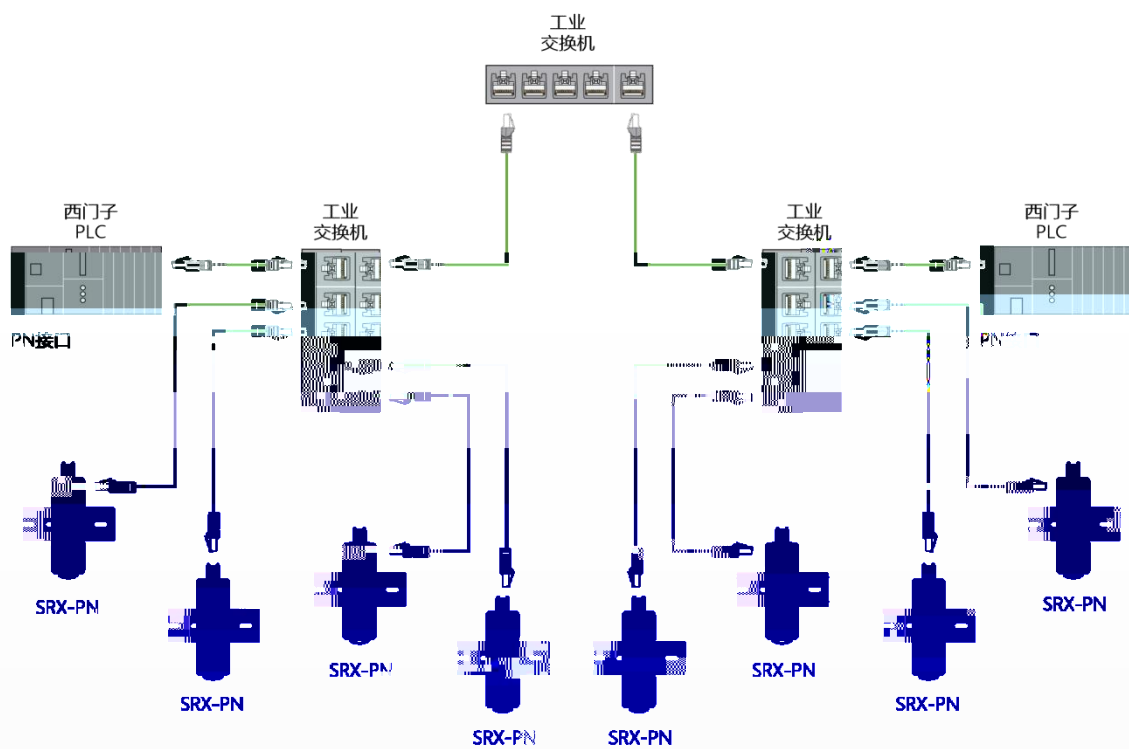
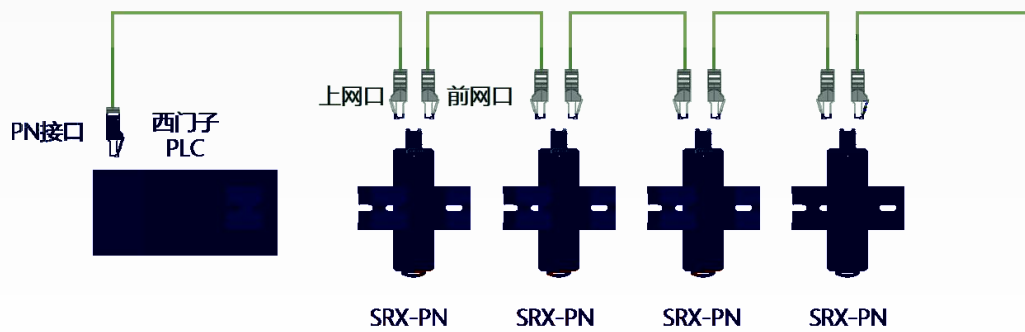
PROFINET



SRX-PN IO

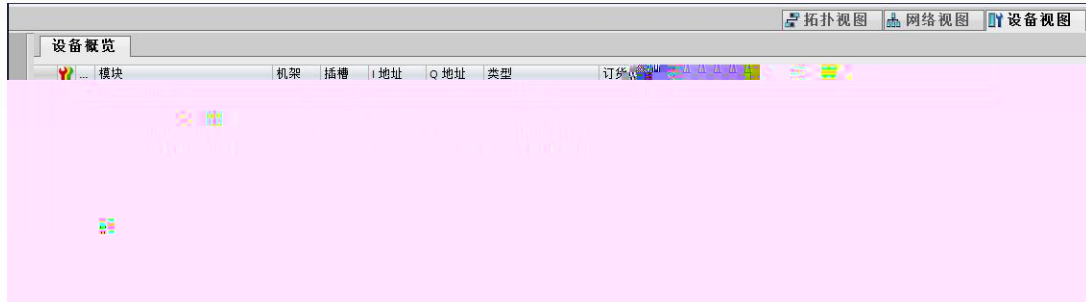
5-1 5-2 5-3





SRX-PN DI/DQ

16	2	In
16	2	Out





BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode
DO Error_Mode bits 0-7	For 7	For 6	For 5	For 4	For 3	For 2	For 1	For 0
BYTE 1	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For
DO Error_Value bits 0-7	7	6	5	4	3	2	1	0

	DO Error_Mode bits	-		0-255	DQ0.x bit
				0	DQ0.x Bit0 DQ-0.0 "Error Mode" bit "1" "Error Value[7..0]" bit DQ0.x
	DO Error_Value bits	-		0-255	"Error Mode[7..0]" bit
				0	DQ

BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	Filter							
	Filter	ms		0-255				
				5				



BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	Filter							
	Filter	ms		0-255				
				5				
BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode
DO Error_Mode bits 0-7	For 7	For 6	For 5	For 4	For 3	For 2	For 1	For 0
BYTE 1	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For
DO Error_Value bits 0-7	7	6	5	4	3	2	1	0
BYTE 2	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode
DO Error_Mode bits 8-15	For 15	For 14	For 13	For 12	For 11	For 10	For 9	For 8
BYTE 3	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For	DO Error_Value For
DO Error_Value bits 8-15	15	14	13	12	11	10	9	8
	DO Error_Mode bits	-		0-255	DQ0.x	Bit0	DQ-0.0	bit
				0	"1"	"Error Value[7..0]"	"Error Mode" bit	bit
	DO Error_Value bits	-		0-255	"Error Mode[7..0]"			bit
				0		DQ		

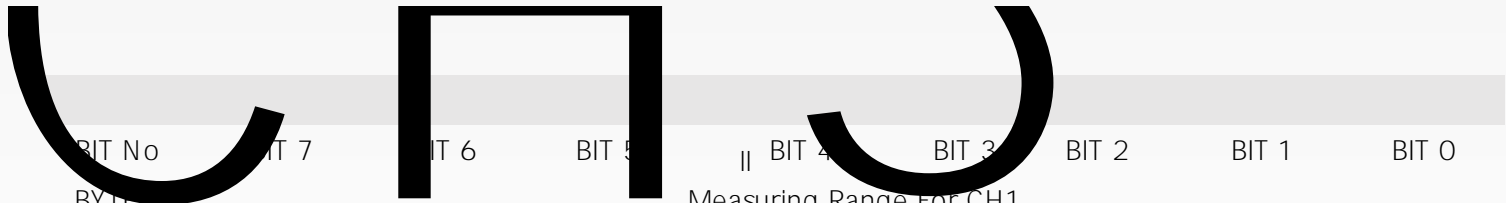


BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	Measuring Range For CH1							
BYTE 1	Notch Filter For CH1							
BYTE 2	AverageNum For CH1							
BYTE 3	Full value For CH1							
BYTE 4								
BYTE 5	Zero_valueFor CH1							
BYTE 6								
BYTE 7	Measuring Range For CH2							
BYTE 8	Notch Filter For CH2							
BYTE 9	AverageNum For CH2							
BYTE 10	Full value For CH2							
BYTE 11								
BYTE 12	Zero_valueFor CH2							
BYTE 13								
...	...							

1	Measuring Range For CH1	-		0:Disable 1:0-10V( ) 2:0-20ma 3:4-20ma	Disable
1	Notch Filter For CH1	-		0:Disable 1:50Hz 2:60Hz	50Hz 60Hz
1	AverageNum For CH1	-		X0( ) X4 X8 X16 X32	
1	Full value For CH1	-		-32768327 67 3 2767	
1	Zero_valueFor CH1	-		-32768.32 767 0	

BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0				Measuring Range For CH1				
BYTE 1				Notch Filter For CH1				
BYTE 2				AverageNum For CH1				
BYTE 3				Full value For CH1				
BYTE 4				Zero_valueFor CH1				
BYTE 5				Zero_valueFor CH1				
BYTE 6				Zero_valueFor CH1				
BYTE 7				Measuring Range For CH2				
BYTE 8				Notch Filter For CH2				
BYTE 9				AverageNum For CH2				
BYTE 10				Full value For CH2				
BYTE 11				Full value For CH2				
BYTE 12				Zero_valueFor CH2				
BYTE 13				Zero_valueFor CH2				
...				...				

1	Measuring Range For CH1	-	0:Disable 1:0-10V( ) 2:0-20ma 3:4-20ma	Disable
1				



BIT No

BIT 7

BIT 6

BIT 5

|| BIT 4

BIT 3

BIT 2

BIT 1

BIT 0

BYTE 0

BYTE 1

BYTE 2

BYTE 3

BYTE 4

BYTE 5

BYTE 6

BYTE 7

BYTE 8

Measuring Range For CH1

Notch Filter For CH1

AverageNum For CH1

Full value<sup>or</sup> For CH1

Zero\_valueFor CH1

Measuring Range For CH2

Notch

BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	Measuring Range For CH1							
BYTE 1	Notch Filter For CH1							
BYTE 2	AverageNum For CH1							
BYTE 3	Full value For CH1							
BYTE 4								
BYTE 5	Zero_valueFor CH1							
BYTE 6								
BYTE 7	Measuring Range For CH2							
BYTE 8	Notch Filter For CH2							
BYTE 9	AverageNum For CH2							
BYTE 10	Full value For CH2							
BYTE 11								
BYTE 12	Zero_valueFor CH2							
BYTE 13								
...	...							

1	Measuring Range For CH1	-		0:Disable 1:0-10V( ) 2:0-20ma 3:4-20ma	Disable
1	Notch Filter For CH1	-		0:Disable 1:50Hz 2:60Hz	50Hz 60Hz
1	AverageNum For CH1	-		X0( ) X4 X8 X16 X32	
1	Full value For CH1	-		-32768.32767 32767	
1	Zero_valueFor CH1	-		-32768.32767 0	









TIA Portal V14

PROFINET

GSDML

GSDML General

Station Description Markup Language

XML  
V2.31

PI FINET SD,

PI

XML

GSMDL

GSDML-V2.31-LATCOS-SRx-PN-20210804.xml

GSD

"GSDML-V2.31" GSMDL V2.31

"LATCOS"

"SRX-PN"

SRx-PN IO

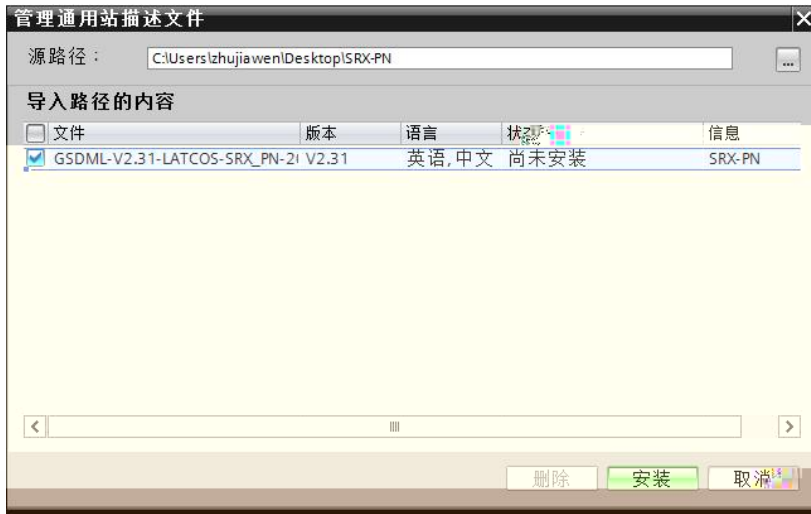
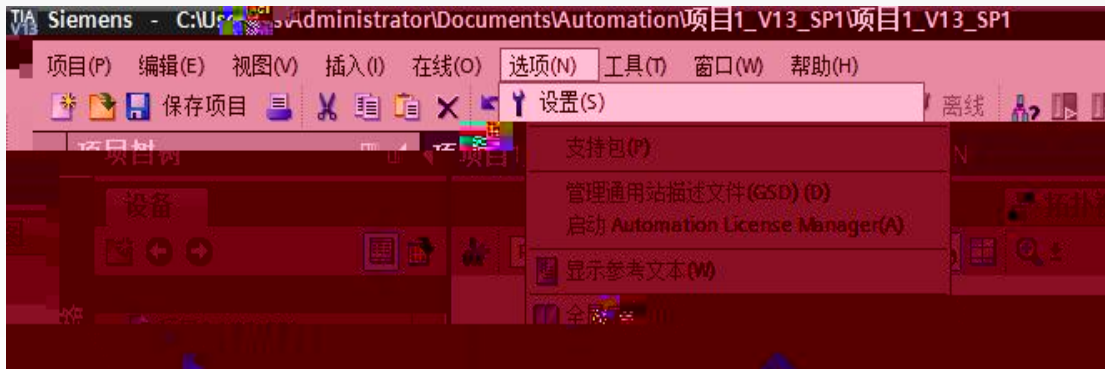
"20210804"

TIA Portal V14

TIA Portal V14

P





TIA Portal V14

GSD

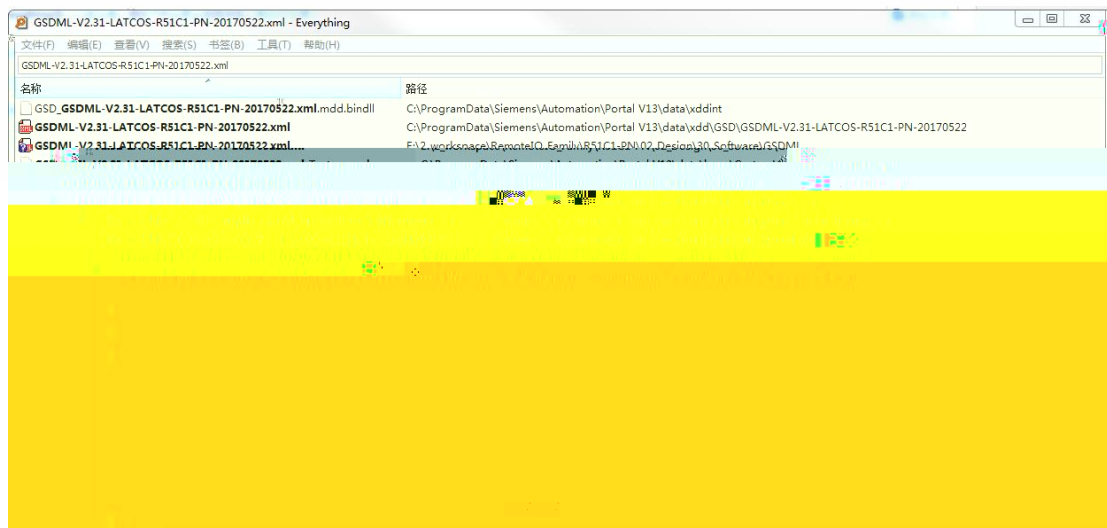
Everything

1 Everything

2 TIA Portal V14

3 Everything

"GSDML-V2.31-LATCOS-SRx-PN-20210804.xml"



4 " "

" "

GSD

GSD



S7-1200 PLC PROFINET IO

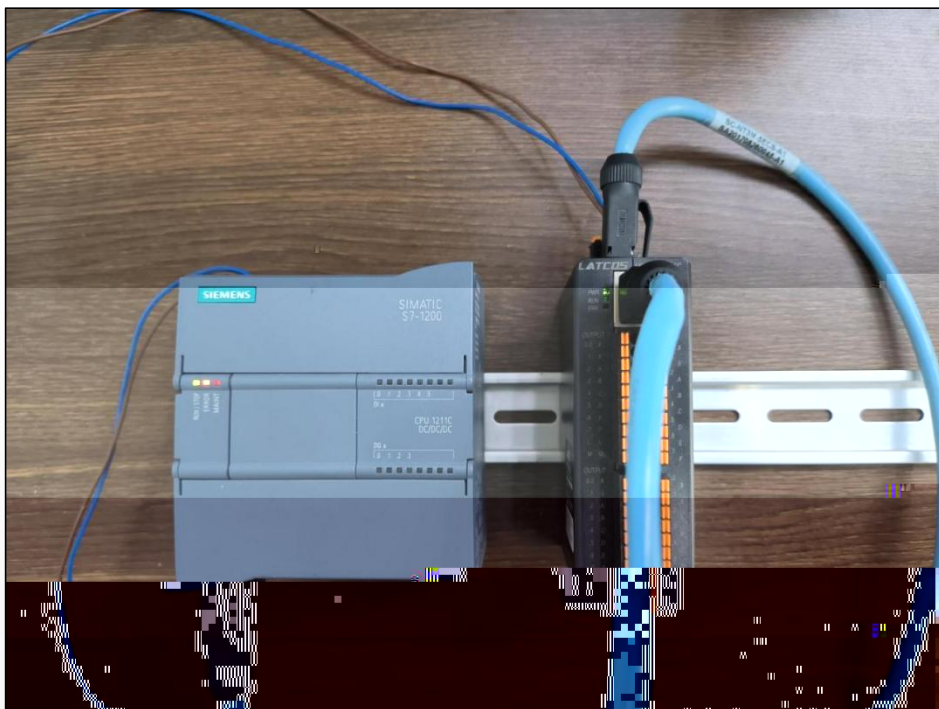
S7-1200PLC PROFINET IO IO  
IO

- TIA Portal V14

- IO SRX\_PN\_GSD\_picture20220909

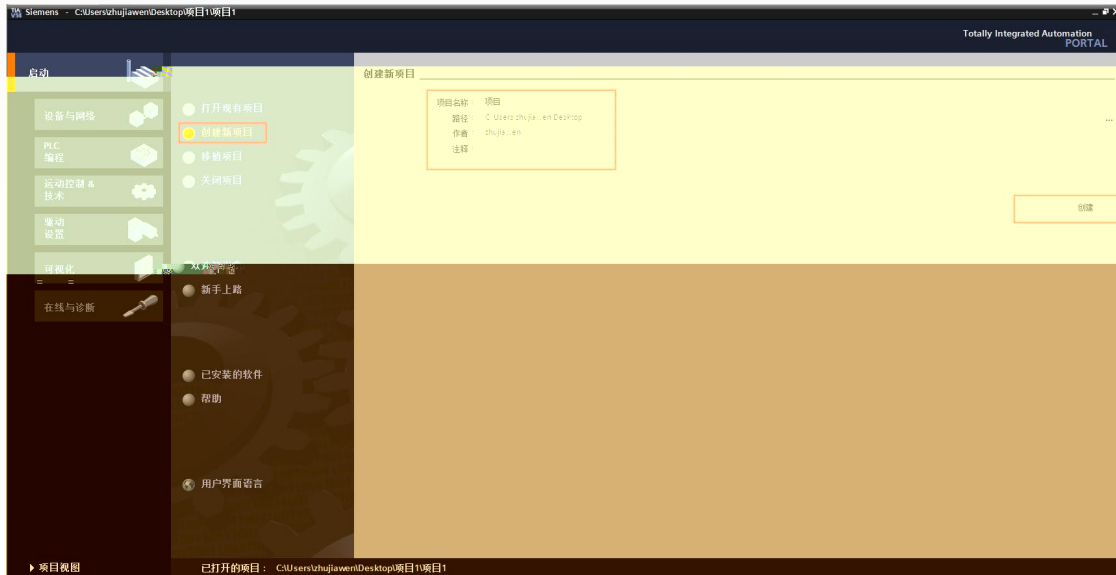
S7-1200PLC IO

IO X2 PLC IO X1



# TIA Portal

" "

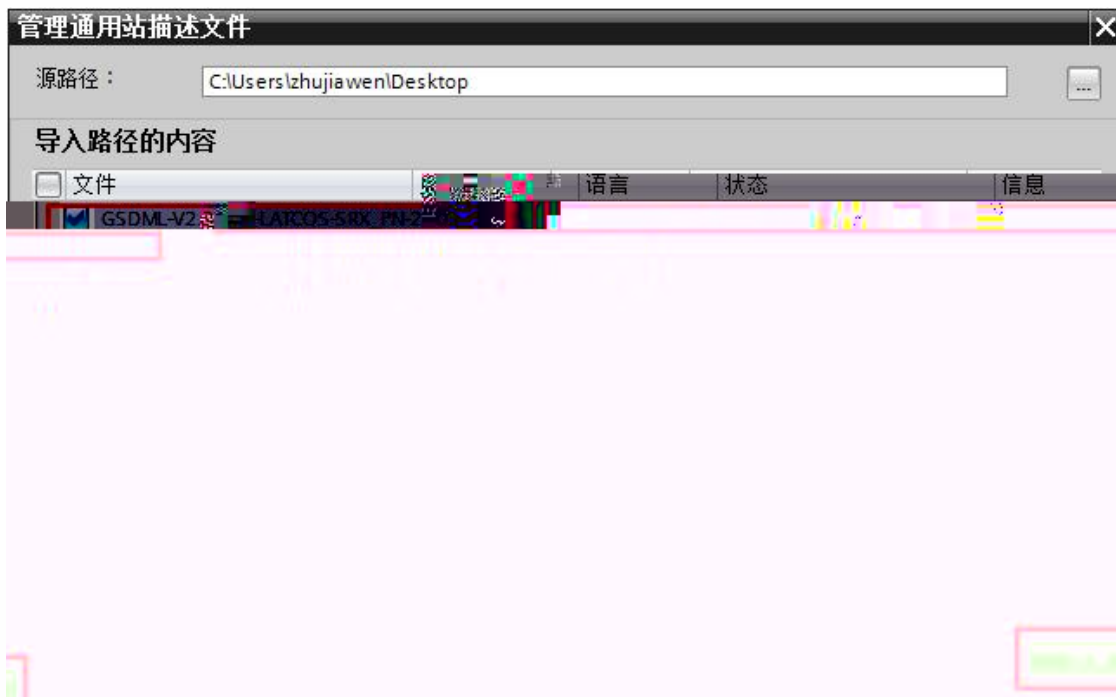
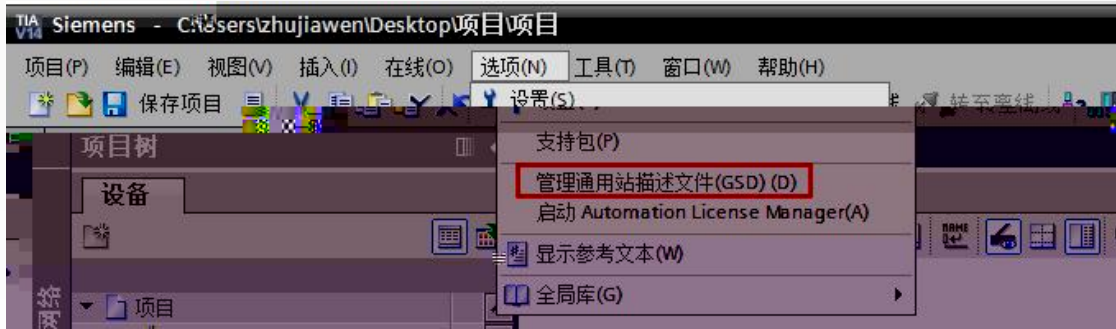


" "

" "

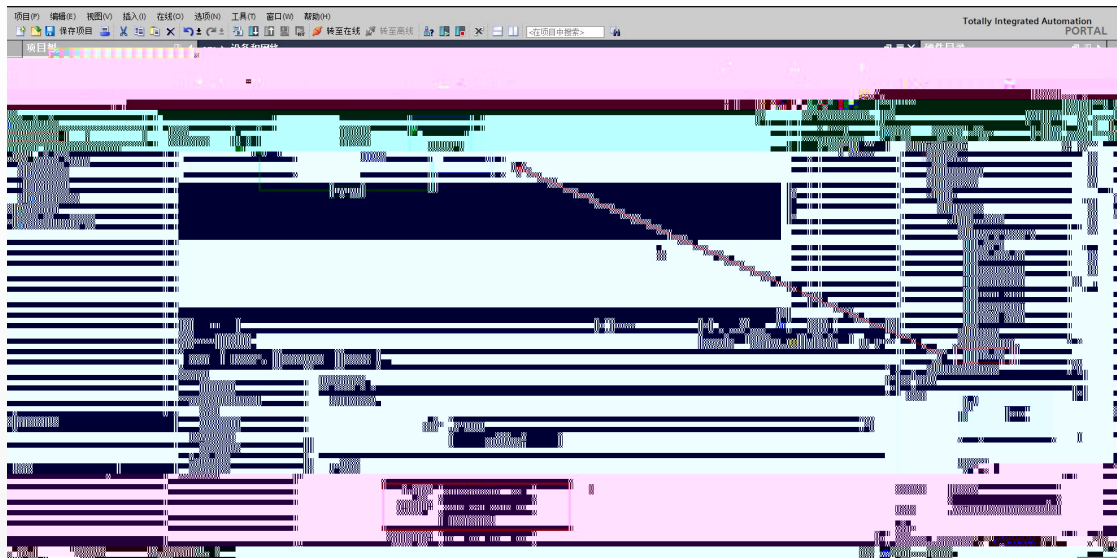


GSD "



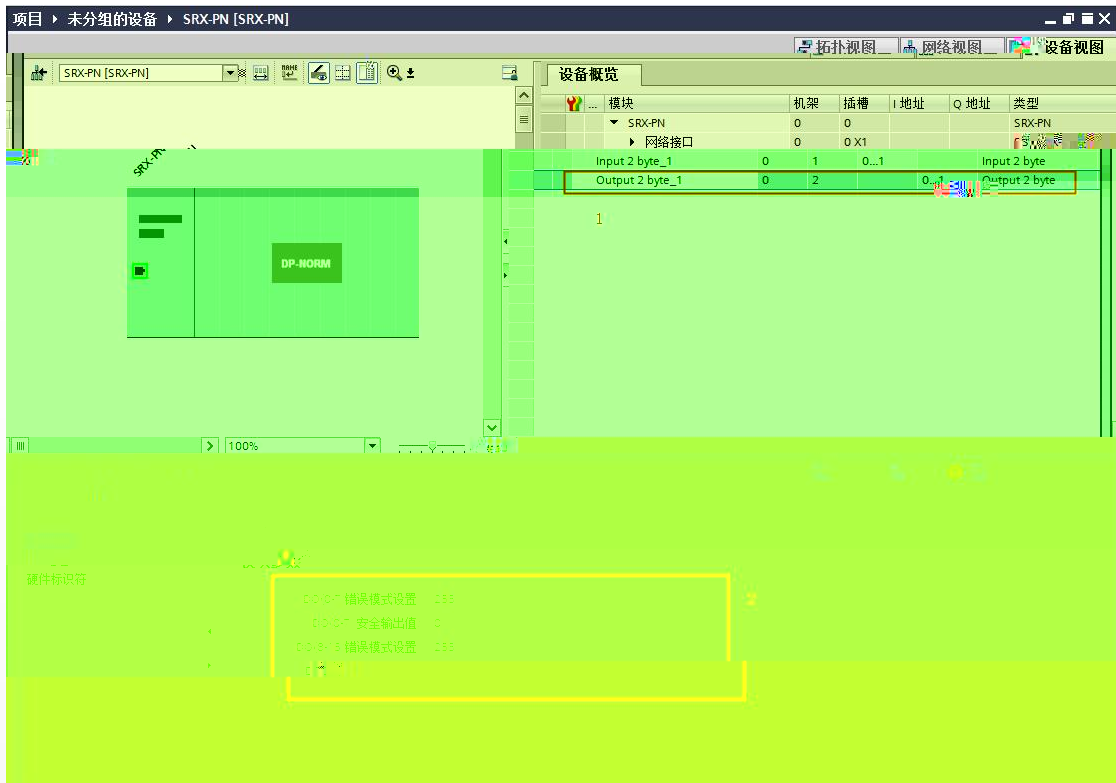
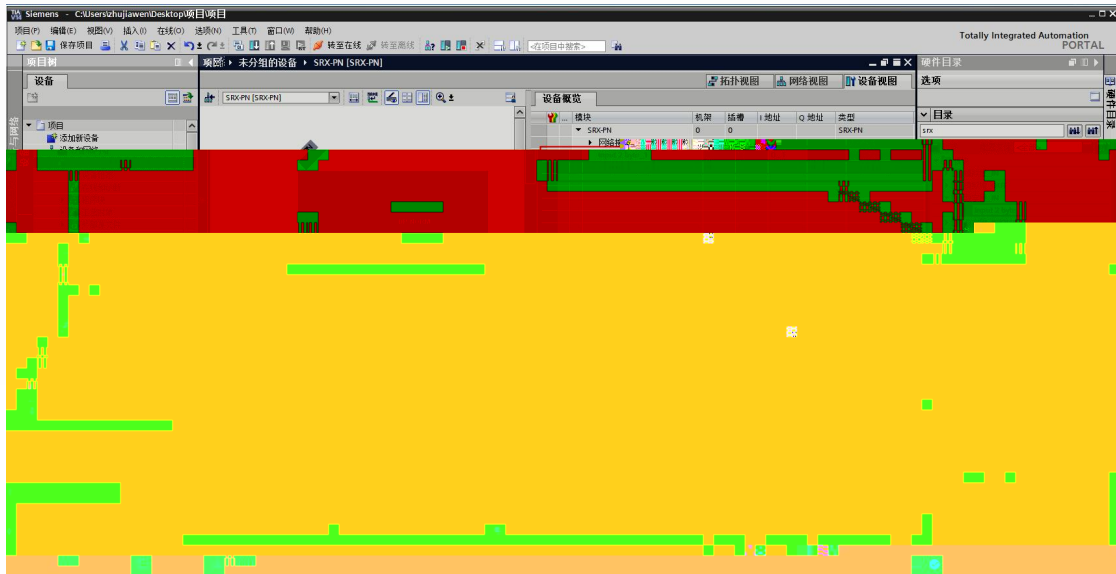
"SRX-PN"

IP



SRX-PN

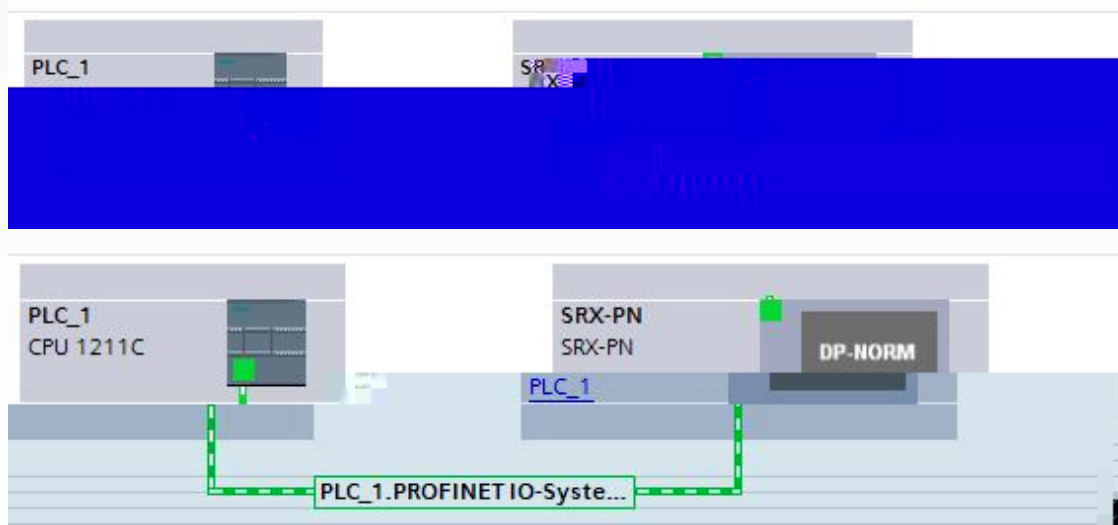
SRX-D 1600P-PN	Slot1	Input 2 byte		
SRX-D 3200P-PN	Slot1	Input 2 byte	Slot2	Input 2 byte
SRX-D 1616P-PN	Slot1	Input 2 byte	Slot2	Output 2 byte
SRX-D0016P-PN	Slot1	Output 2 byte		
SRX-D0016P-PN	Slot1	Output 2 byte	Slot2	Output 2 byte
SRX-A 0600-PN	Slot1	6CH AI		



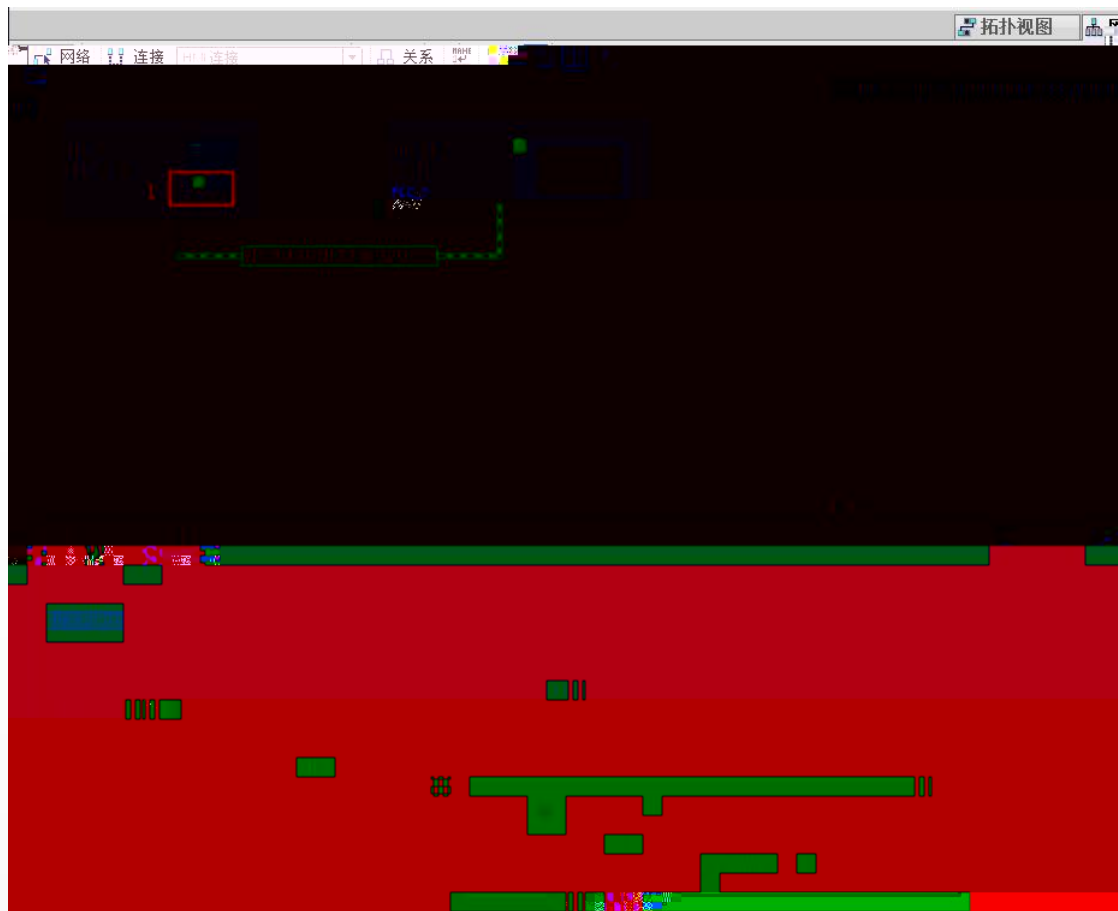


PLC\_1.PROFINET \_1 SRX-PN

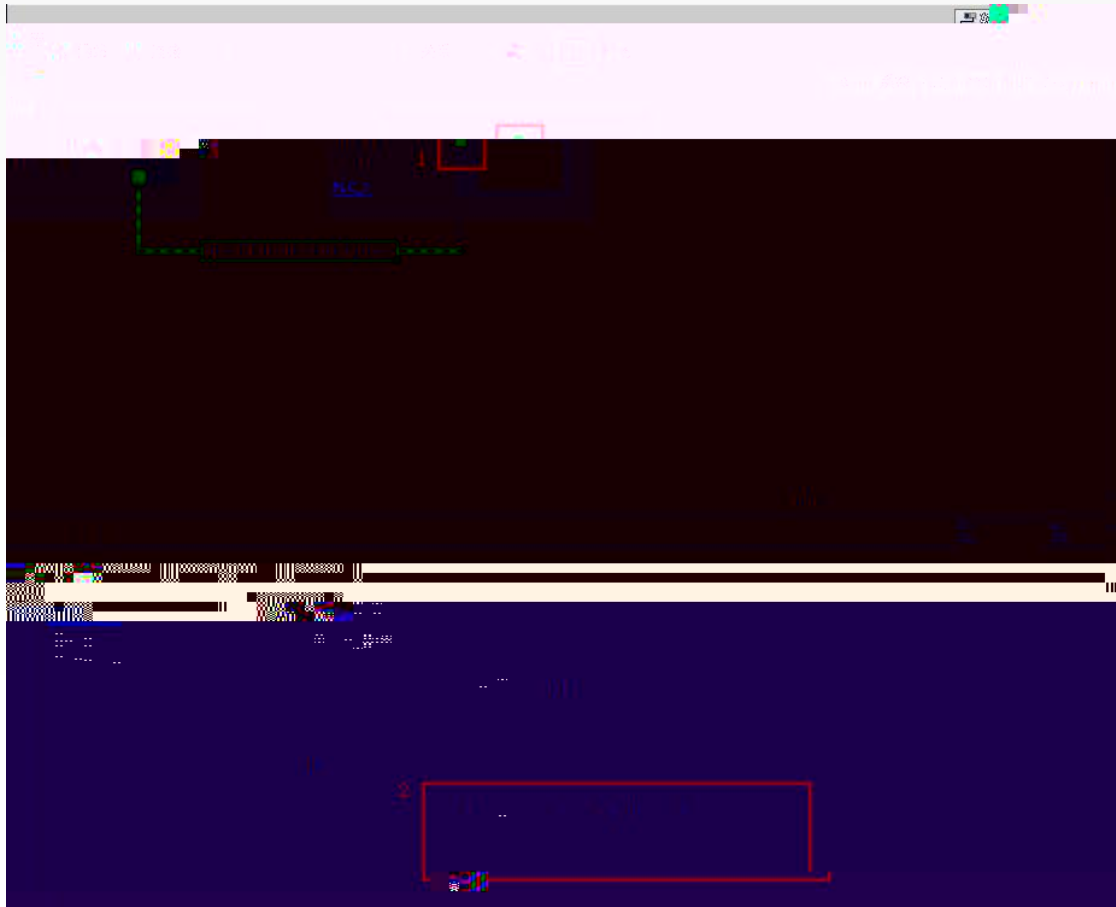
PROFINET



S7-1200 IP



IO IP



TIA Portal

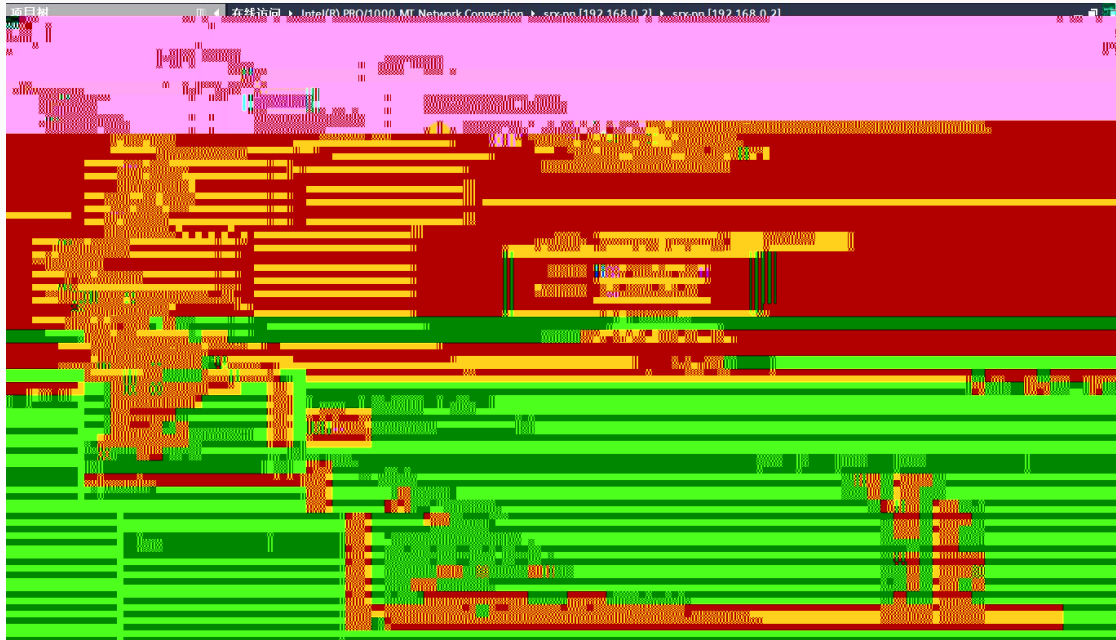
IP



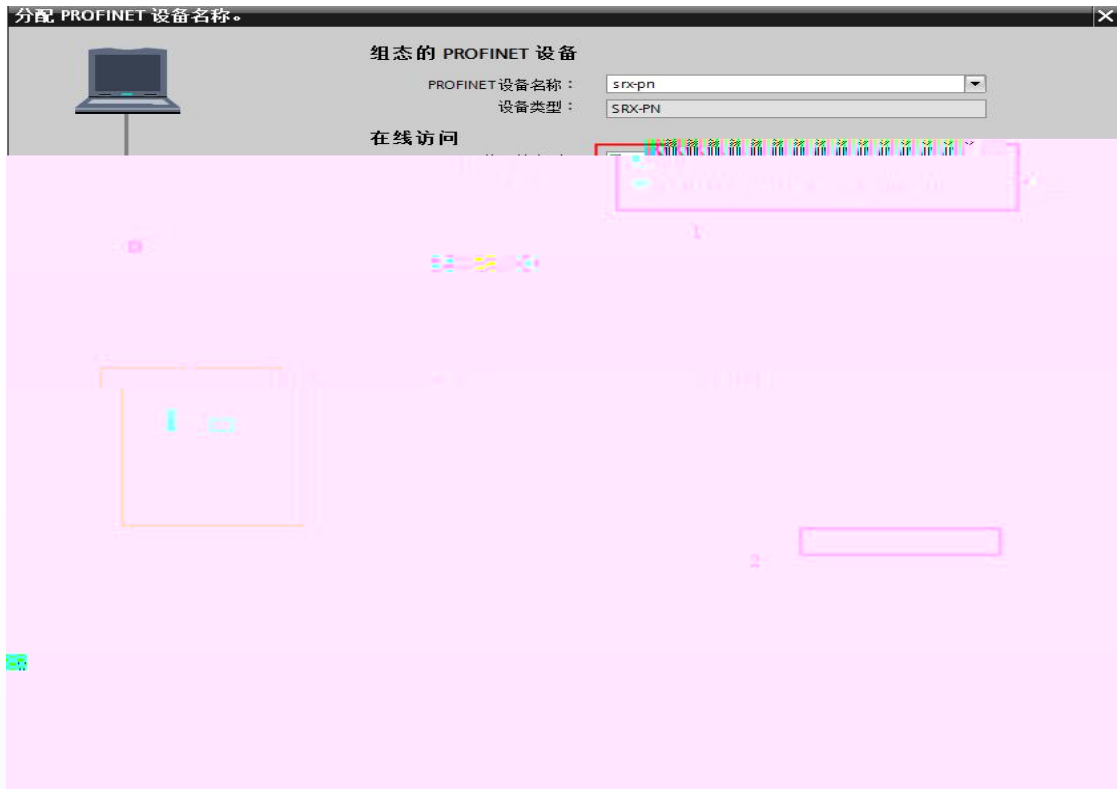
IO

IP

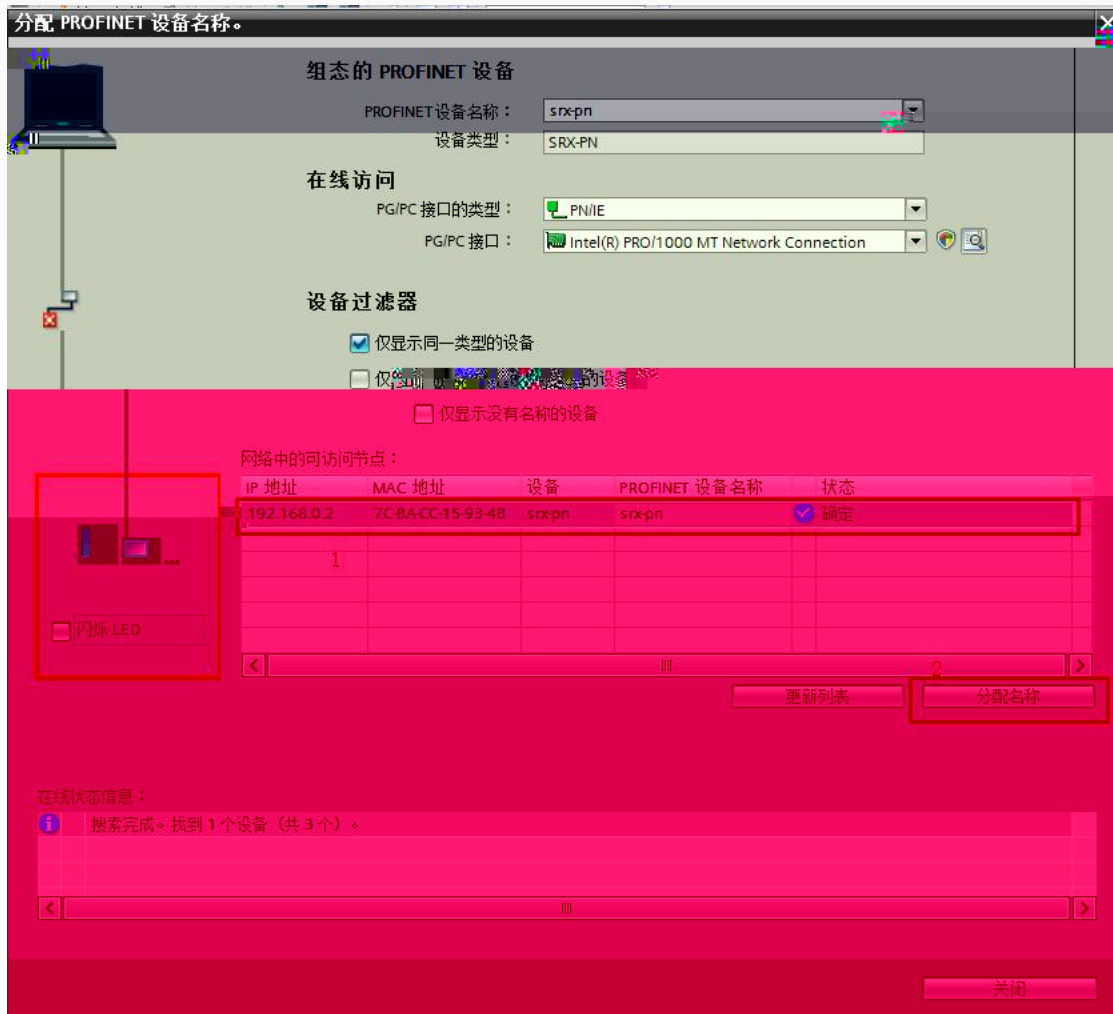
IP



A screenshot of the Siemens SIMATIC Manager software interface. The main window is titled "在线访问" (Online Access) and shows a project tree on the left. The project tree includes "Intel(R) PRO/1000 MT Network Connection" and "srx-pn [192.168.0.2]". The main area displays the "分配 PROFINET 设备名称" (Assign PROFINET Device Name) dialog box. The dialog box has a section for "组态的 PROFINET 设备" (Configured PROFINET Device) with two input fields: "PROFINET 设备名称:" (PROFINET Device Name) and "设备类型:" (Device Type), both containing the value "srx-pn". Below this is a "设备过滤器" (Device Filter) section with three checkboxes: "仅显示同一类型的设备" (Only show devices of the same type), "仅显示参数设置错误的设备" (Only show devices with parameter configuration errors), and "仅显示没有名称的设备" (Only show devices without names). The bottom of the screenshot shows a network diagram with a red node highlighted.



MAC



PLC

IP

PLC

