



User Manual

SRX

PRO
Remote IO Module
IO

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PROFINET® PI

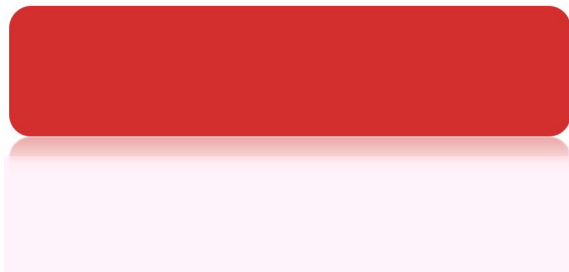
IP20

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

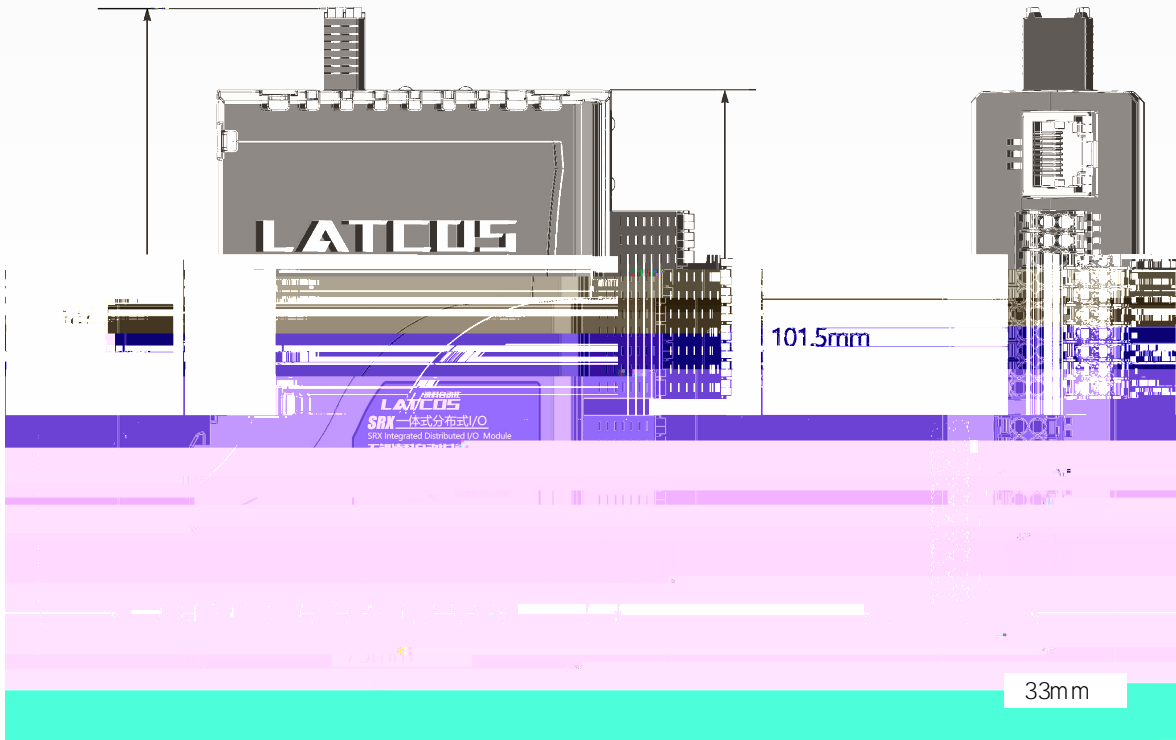
1		16
2		2 bytes
3	Ton	Type. 12uS / Max. 25uS
4	Toff	Type. 10mS / Max. 20mS ()
5		
6		
7		
8		24 V DC (-15 %/+ 20 %), (IEC 61131-2, type 2)
9		Max. 0.5 A /Ch,
10		8A



SRX

IP20

33 * 122.5 * 90.5 W/H/D mm



SRX

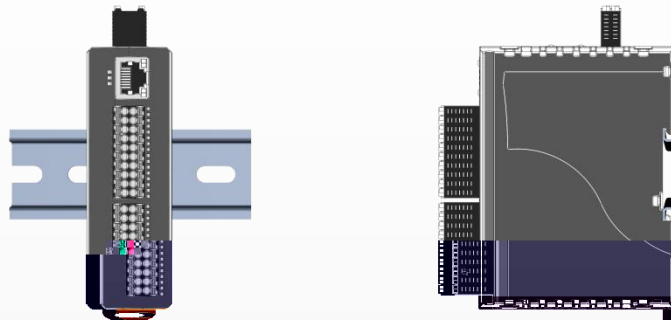
25 mm

DIN

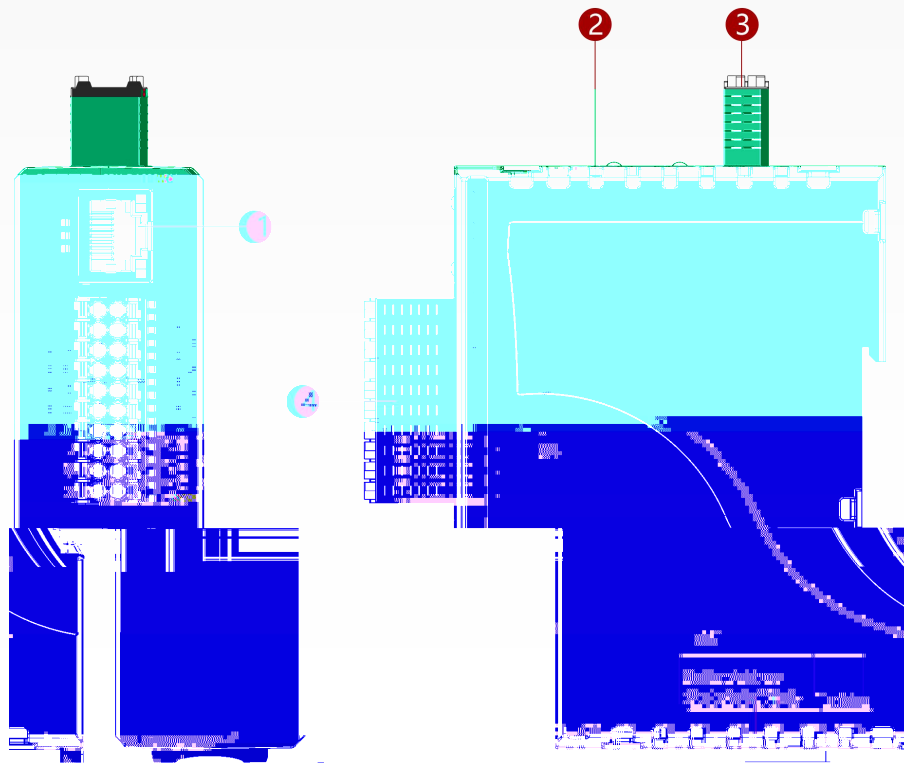
75 mm

TS35/7.5

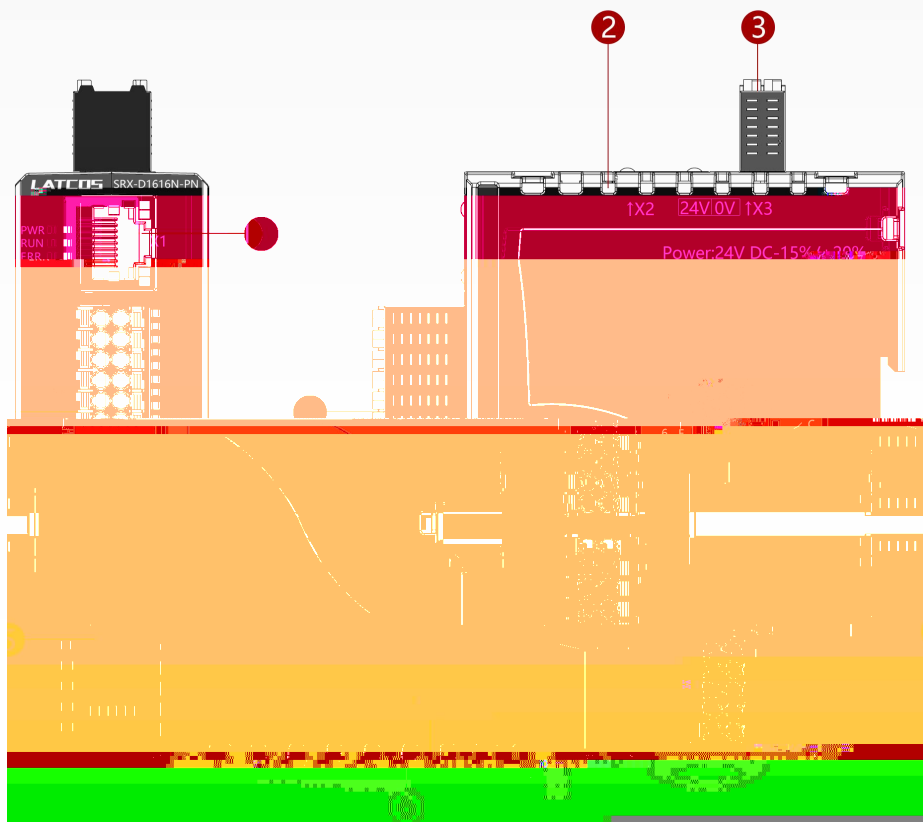
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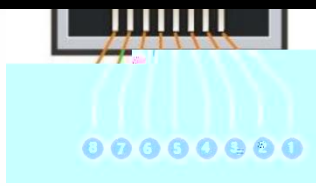




X1	RJ45	PLC	PC
X2	RJ45	PLC	PC
X3	24V		
X4			
X6			



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



LED 3

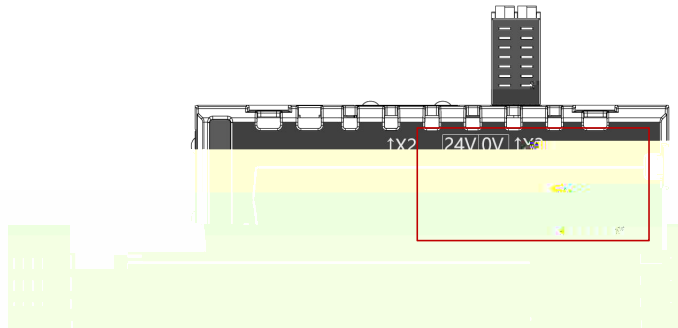
RJ45

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

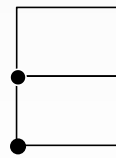
SRX-D0808P-PN

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-DO016N-PN

DO

X4

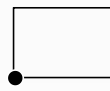
DO

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

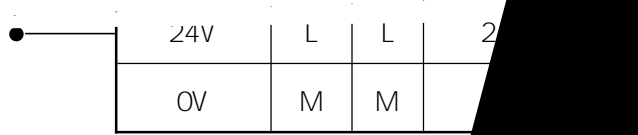
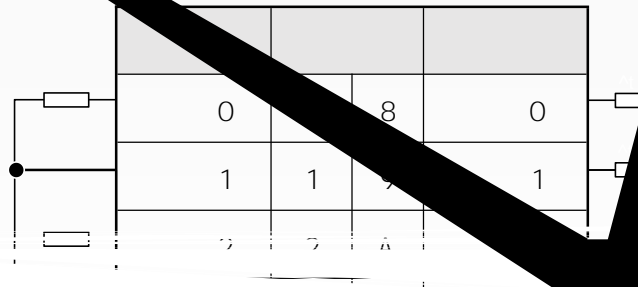
DO

SRX-DO032N-PN

DO

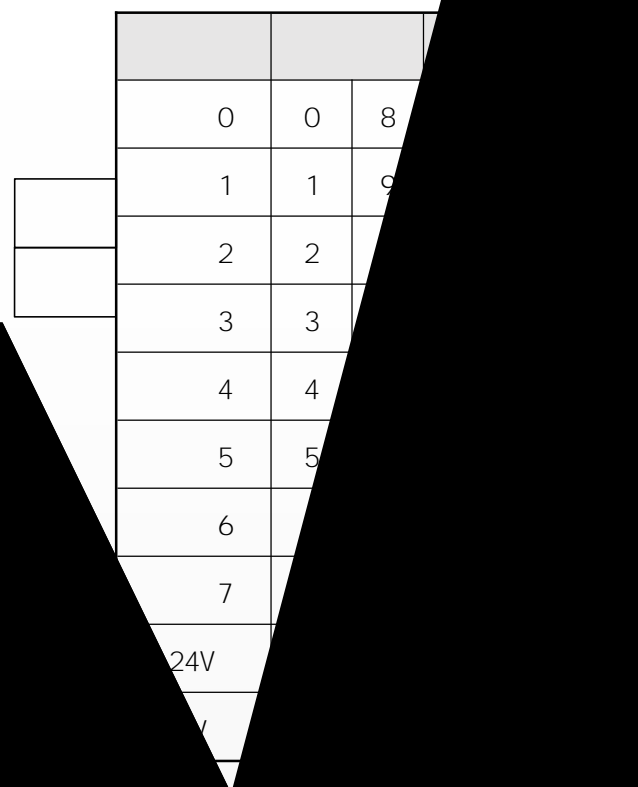
X4

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		
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		
--	----	--	--

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		

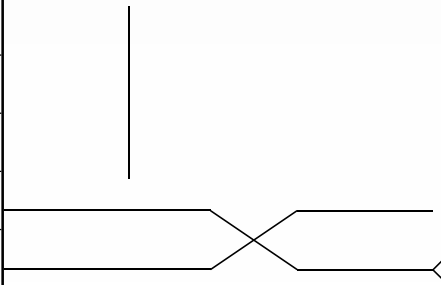
SRX- 1200-PN



X4



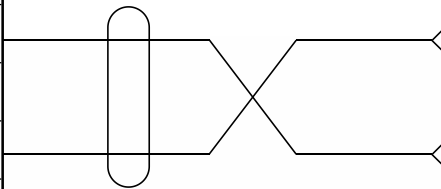
	PE	PE	
1	GND1	GND4	4
1	I1	I4	4
1	V1	V4	4
2	GND2	GND5	5
2	I2	I5	5
2	V2	V5	5
3	GND3	GND6	6
3	I3	I6	6
3	V3	V6	6



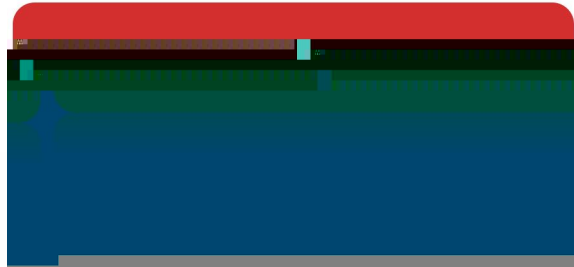
X5



	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



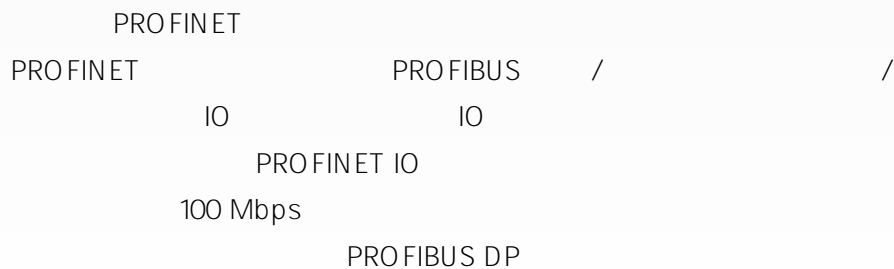




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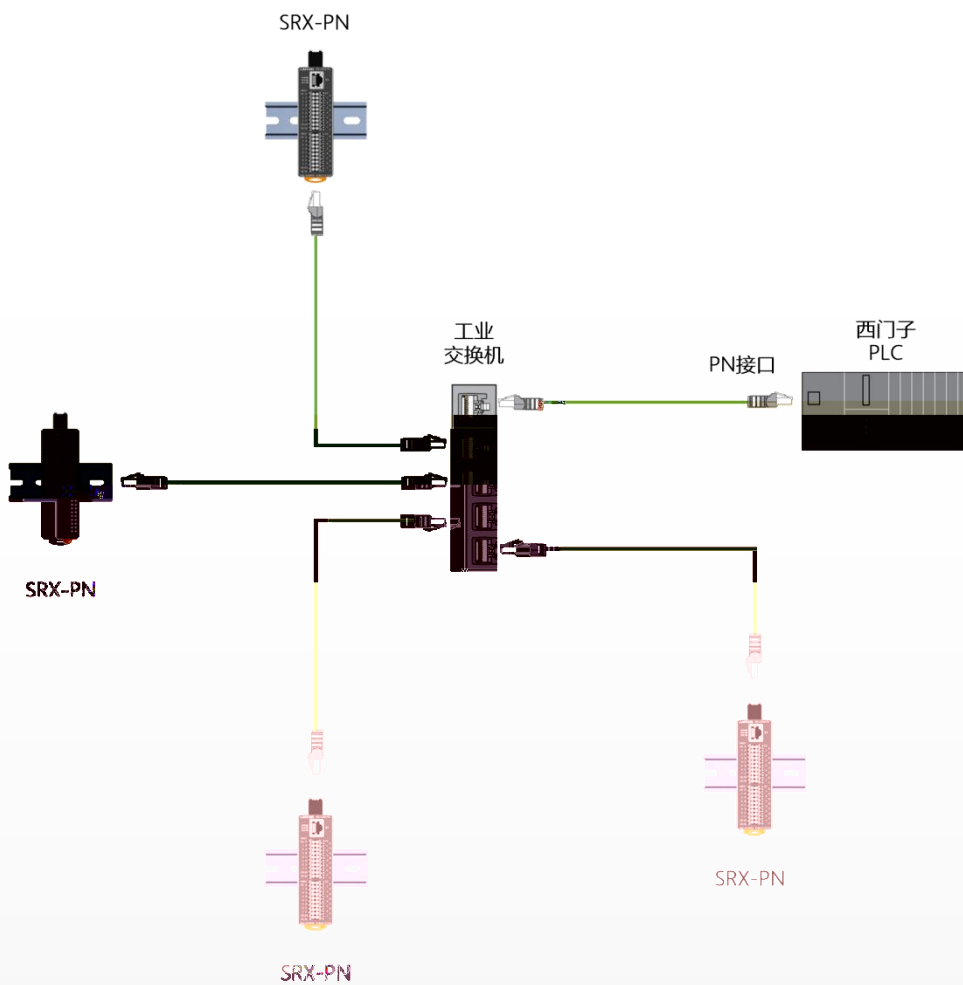
PROFINET IO

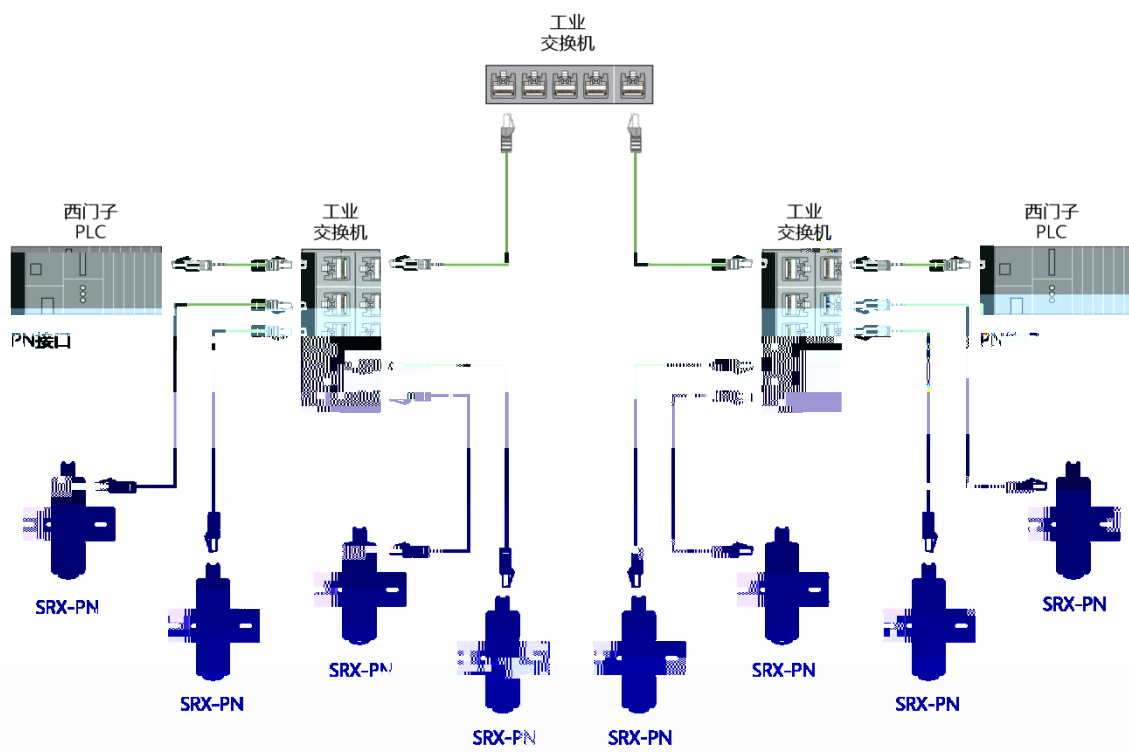
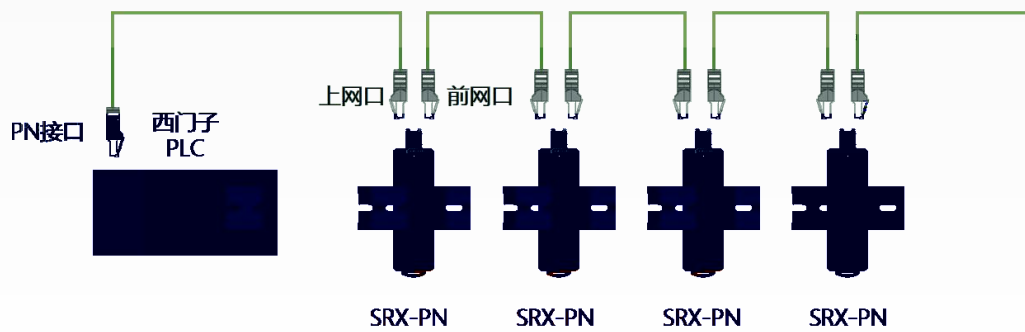
PROFINET



SRX-PN IO

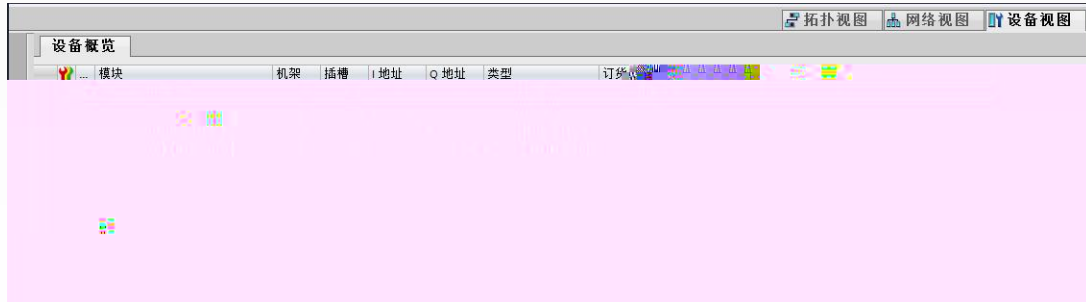
5-1 5-2 5-3





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				

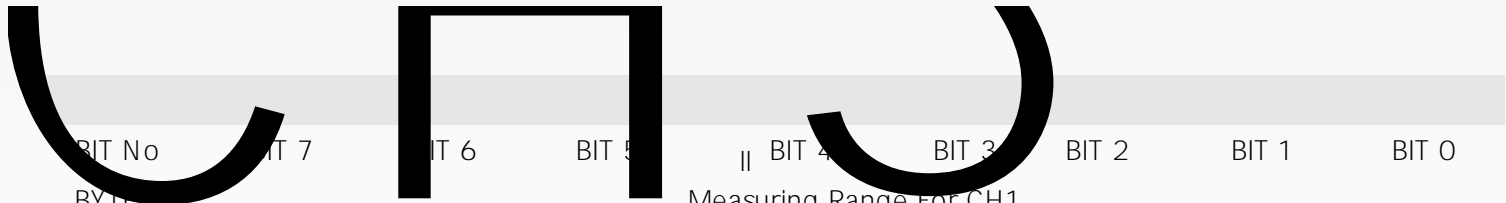
BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	Filter							
	Filter	ms		0-255				
				5				
BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode	DO Error_Mode
DO Error_Mode bits 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^{or}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"

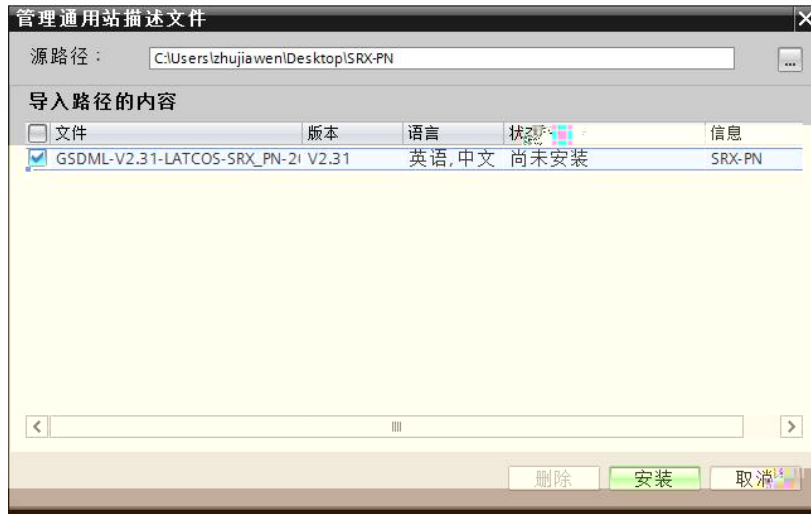
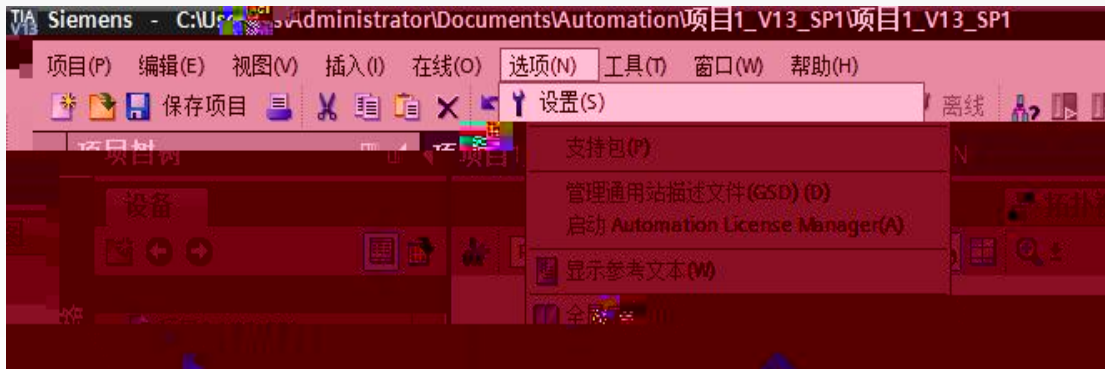
SRX-PN IO

"20210804"

TIA Portal V14

TIA Portal V14

P



TIA Portal V14

GSD

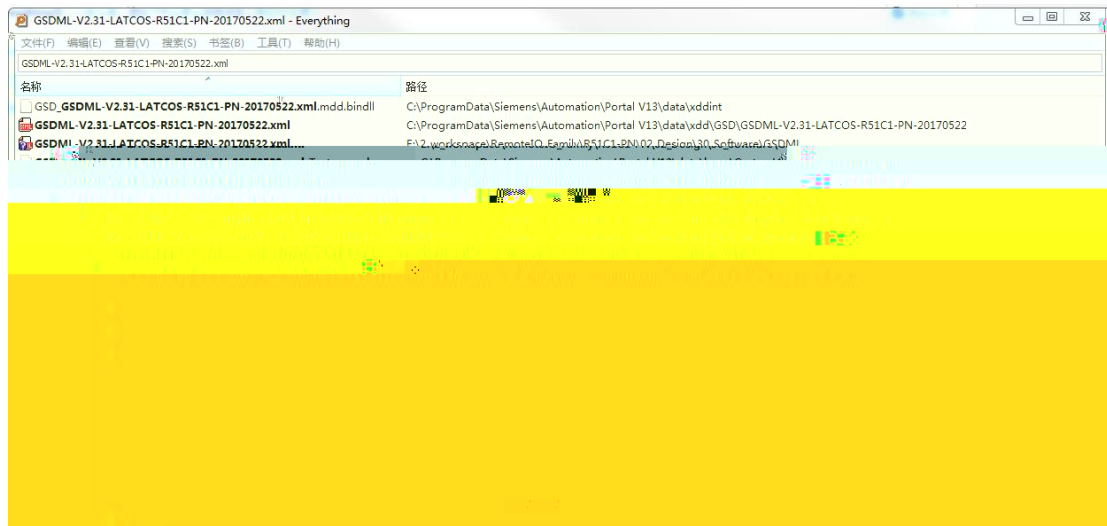
Everything

1 Everything

2 TIA Portal V14

3 Everything

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



4 " "

" "

GSD

GSD



S7-1200 PLC PROFINET IO

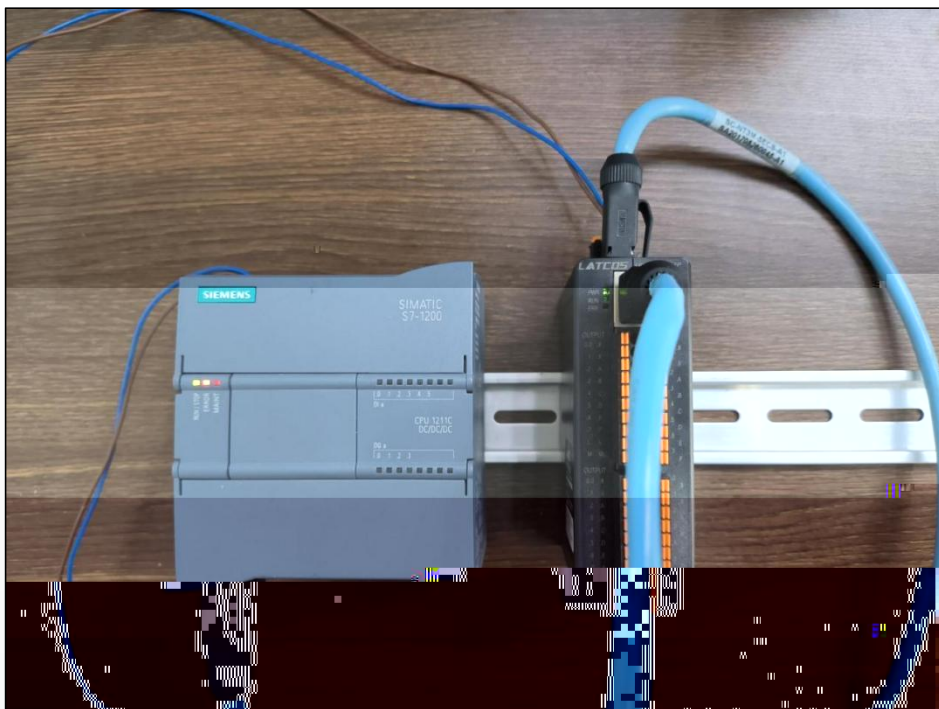
S7-1200PLC PROFINET IO IO

- TIA Portal V14

- IO SRX_PN_GSD_picture20220909

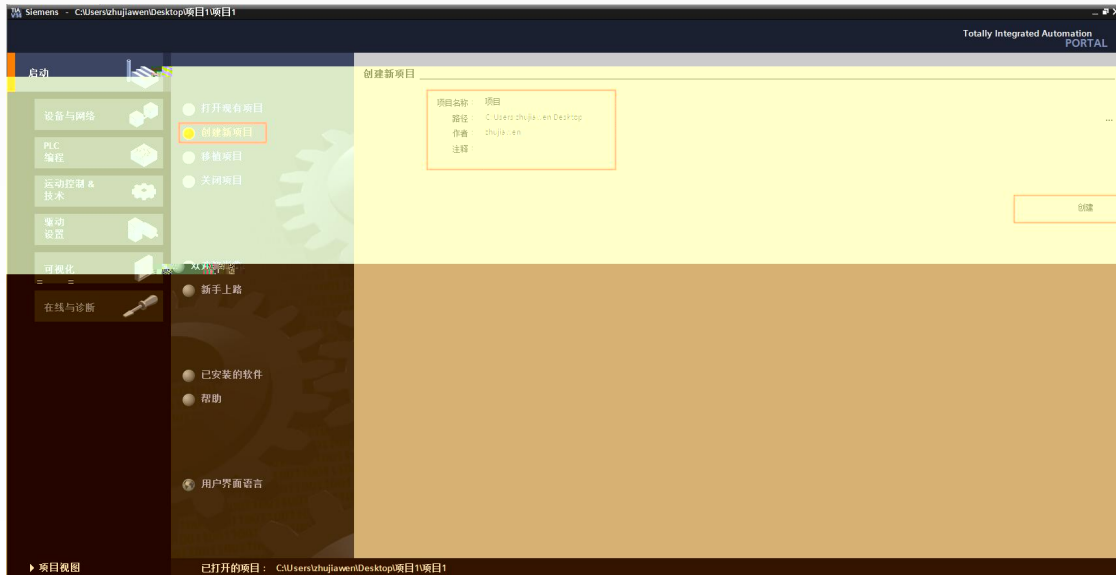
S7-1200PLC IO

IO X2 PLC IO X1



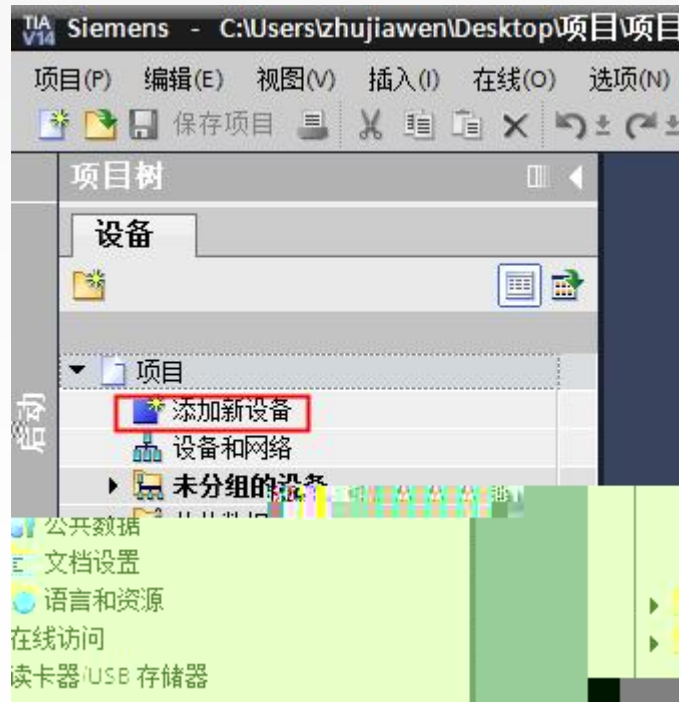
TIA Portal

" "

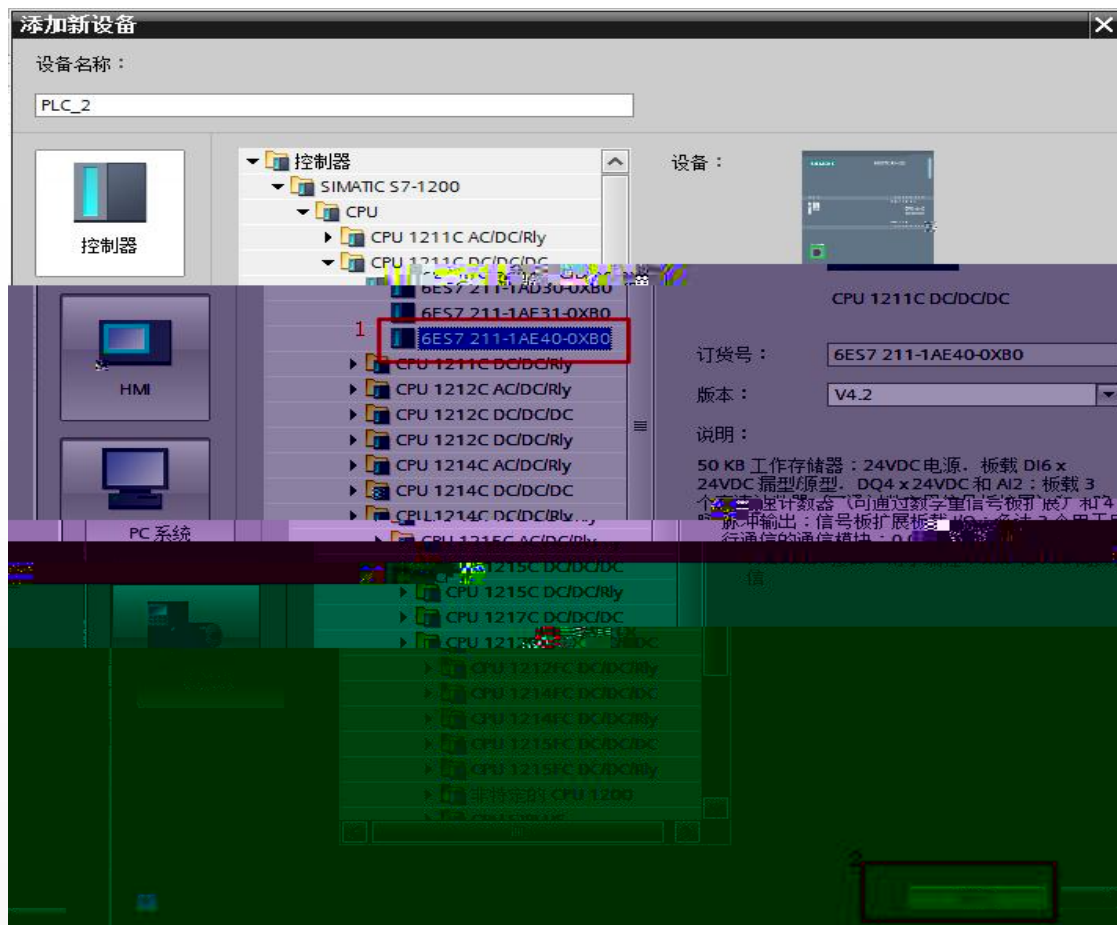


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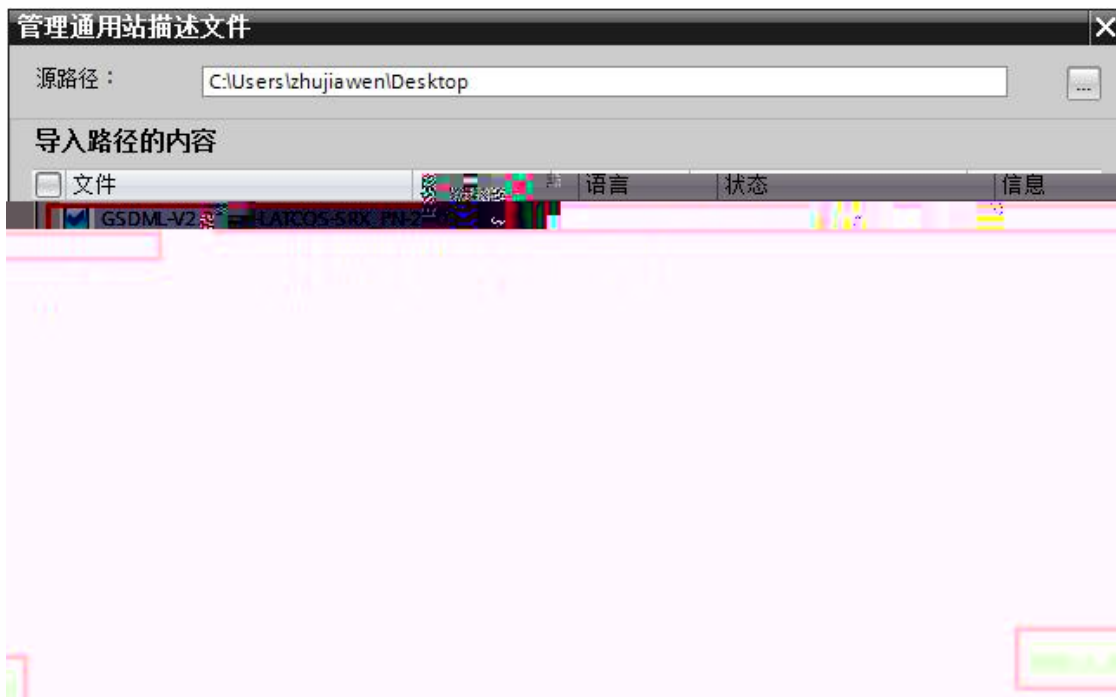
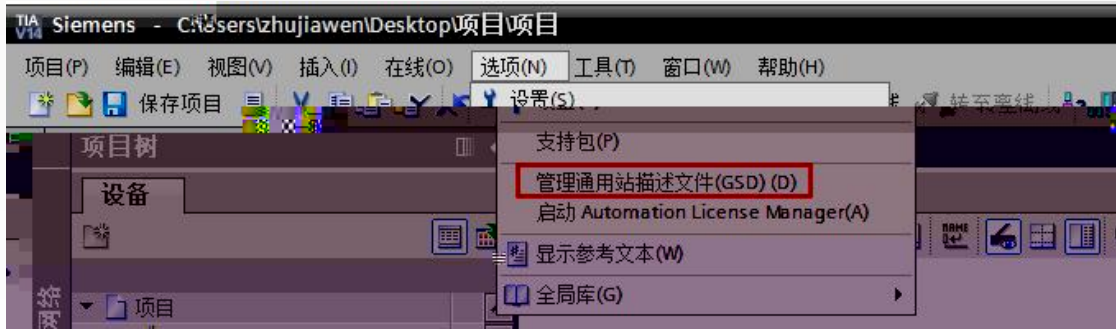
" "



" " " SIMATIC S7-1200 CPU CPU 1211C
DC/DC/DC 6ES7 211-1AE40-0XB0"

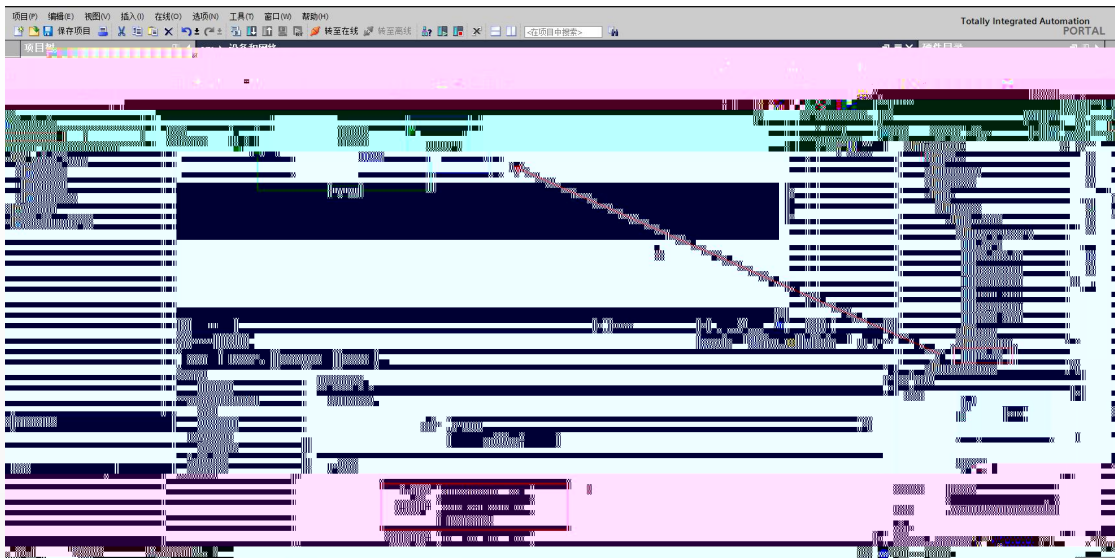


GSD "



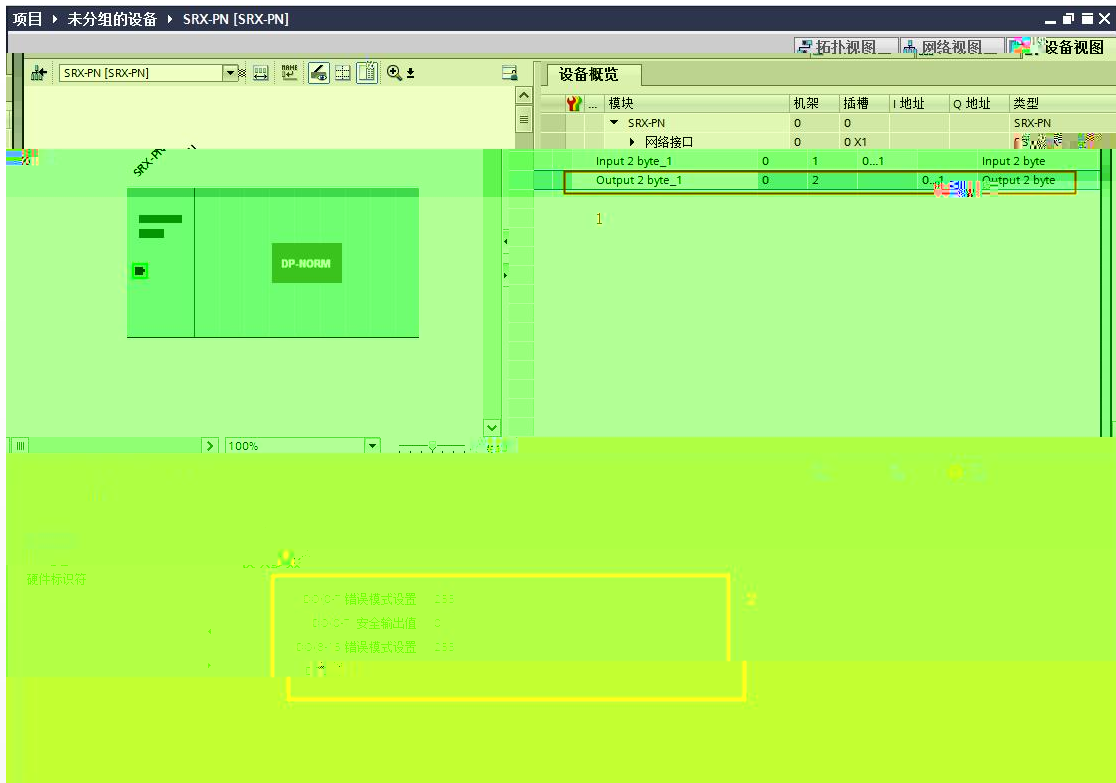
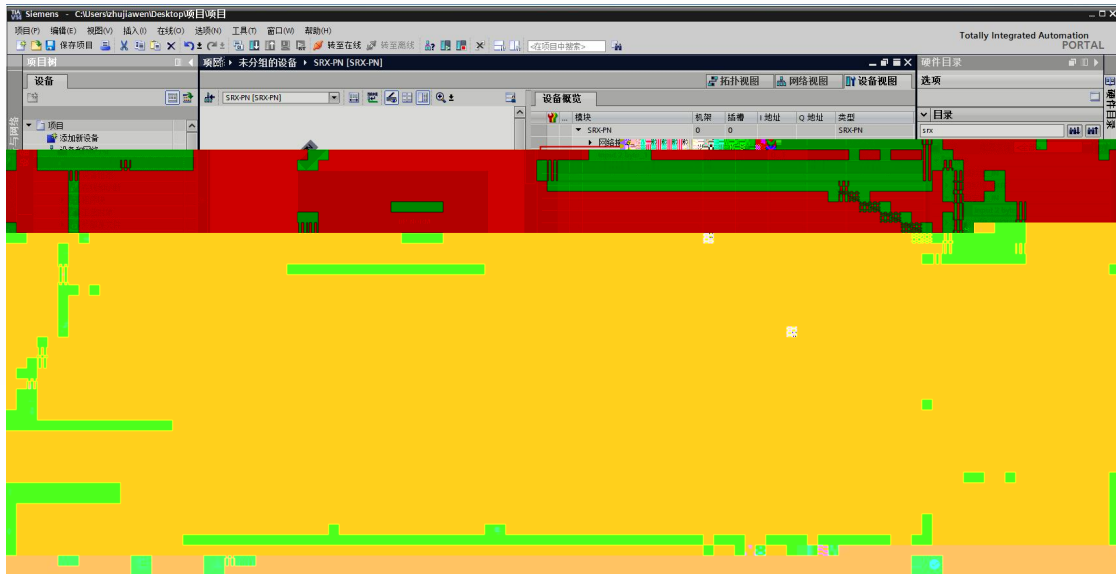
"SRX-PN"

IP



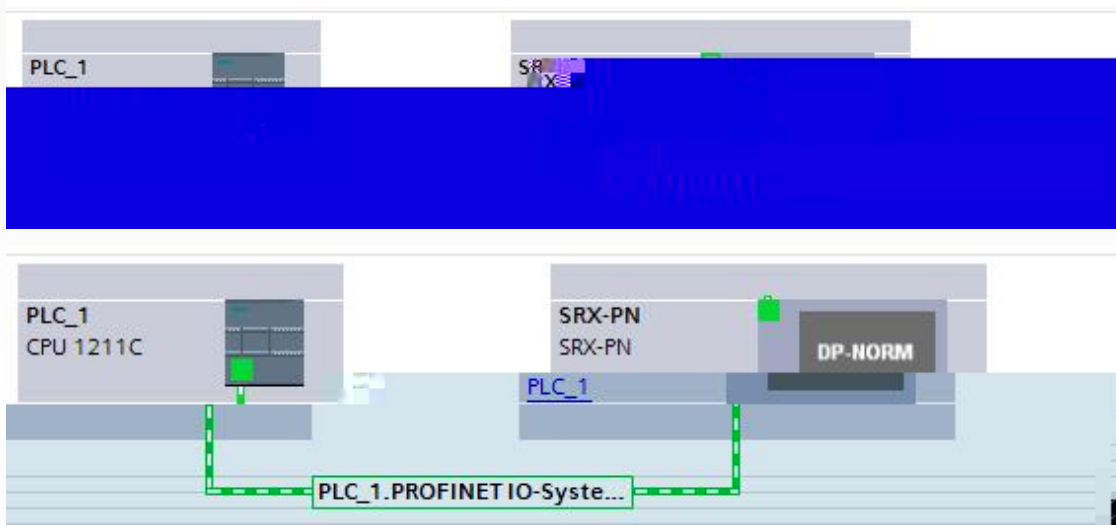
SRX-PN

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		

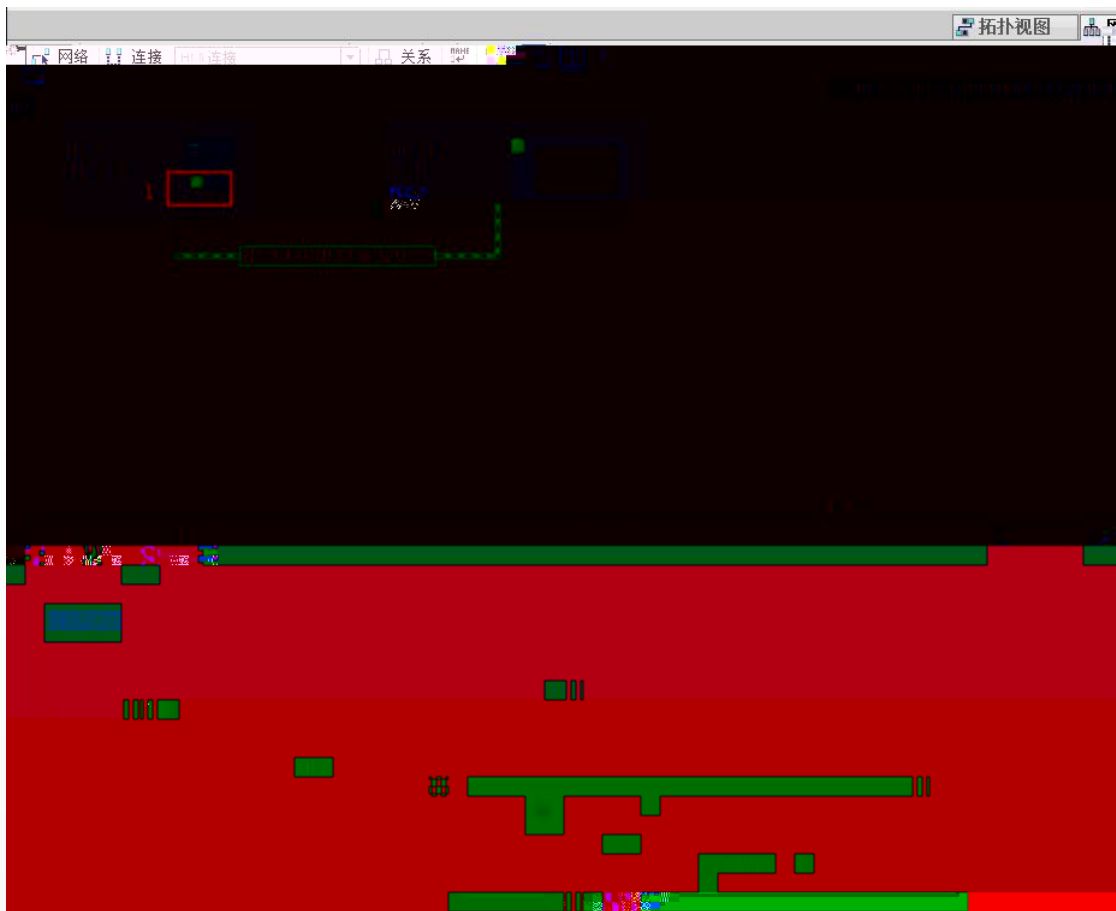


PLC_1.PROFINET _1 SRX-PN

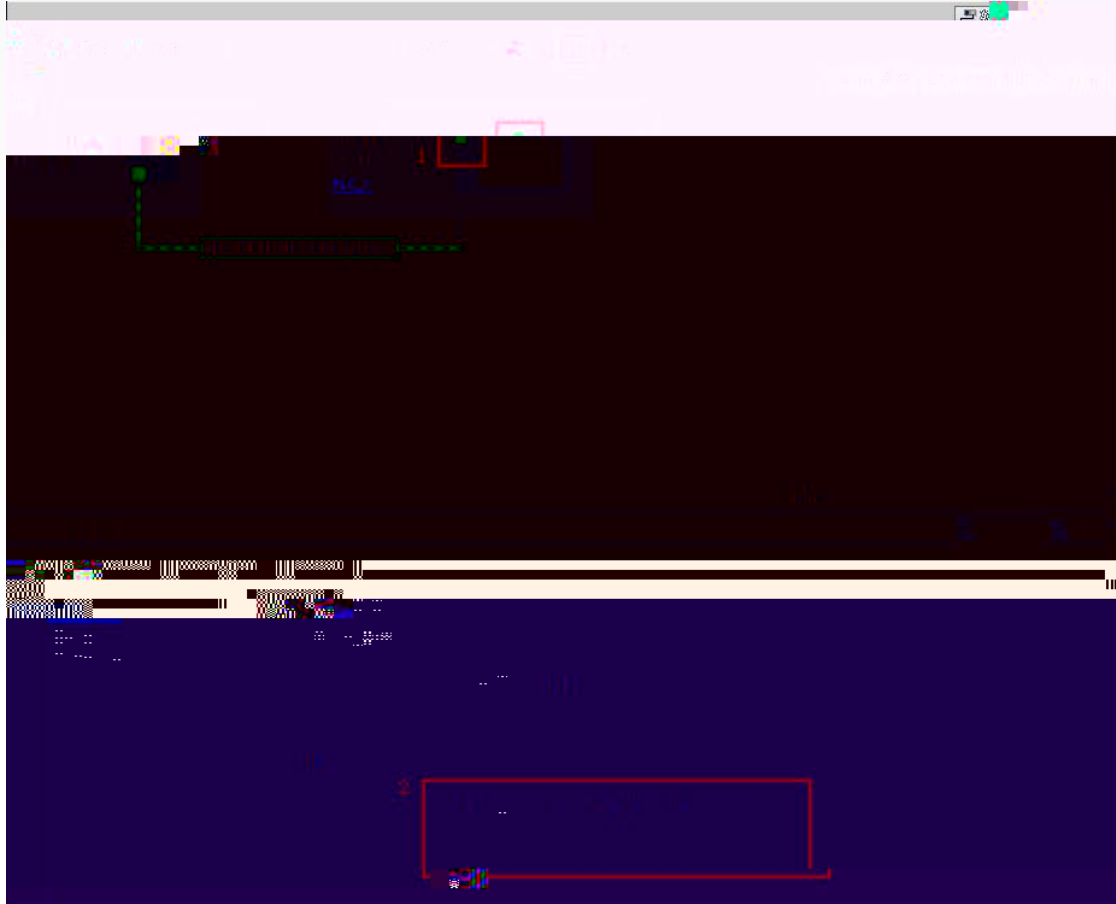
PROFINET



S7-1200 IP



IO IP



TIA Portal

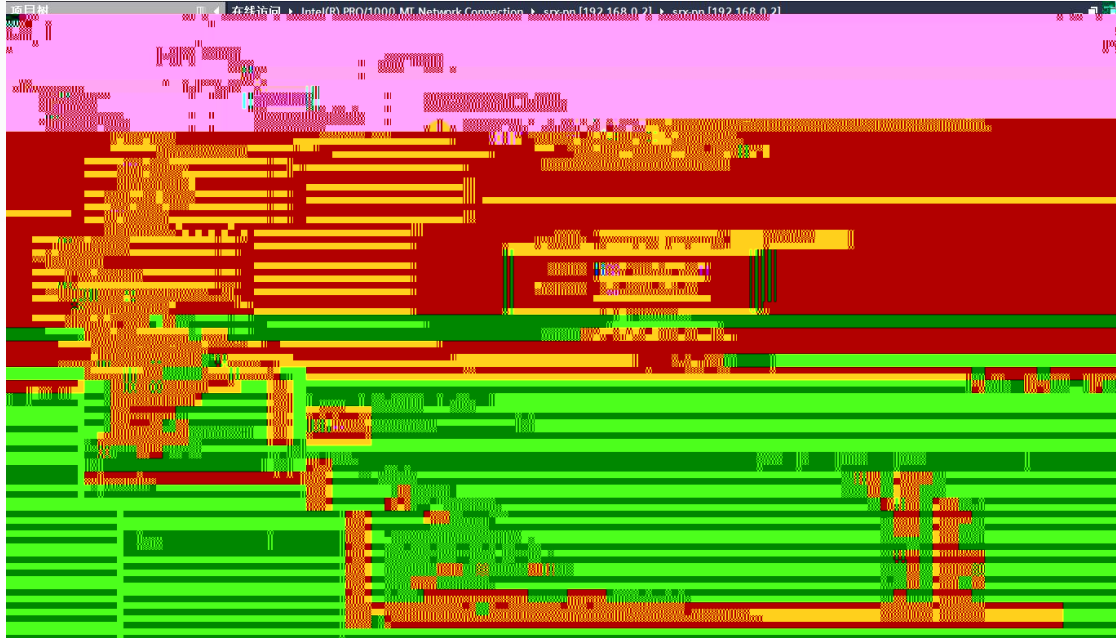
IP



IO

IP

IP



A screenshot of the SIMATIC Manager software interface. The main window displays the 'Assign PROFINET Device Name' dialog box. The dialog box has a title bar '分配 PROFINET 设备名称' and a main area with the following content:

组态的 PROFINET 设备

PROFINET 设备名称:

设备类型:

设备过滤器

- 仅显示同一类型的设备
- 仅显示参数设置错误的设备
- 仅显示没有名称的设备

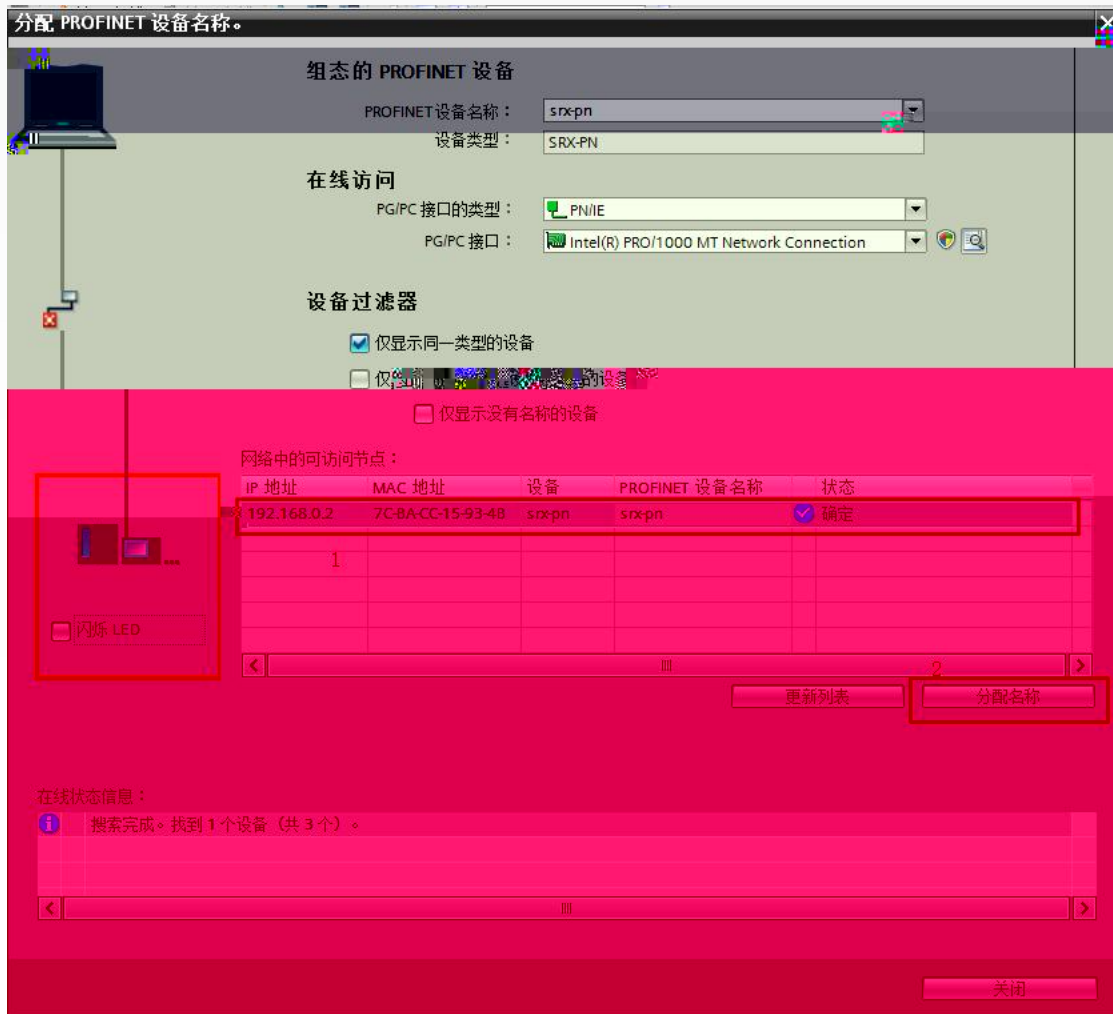
网络中的可访问节点:

The left sidebar shows the project tree with the following structure:

- 设备
- 在线访问
 - Intel(R) PRO/1000 MT Network Connection
 - srx-pn [192.168.0.2]
 - srx-pn [192.168.0.2]



MAC



PLC

IP

PLC

