PN-MB Series Module User Manual





1. Product overview	.1
1.1. Product introduction1	
1.2. Features and functions	.1
1.3. Application Scenarios1	
2. Main parameters	2
2.1. Product parameters	2
3. Product function	4
3.1. Overview of PN-MB functions	4
3.2. Modify the IP address	4
3.4. Upgrade function	4
4. Use Botu TIA to connect and use this module	5
4.1. Preparation before connection	
4.2. Add GSDML file to Botu5	
4.3. Adding PROFINET devices to the project	7
4.4. Configure modus communication parameters	9
4.5. Configuration status word and control word	10
4.6. Configure Modbus message	
4.7. Use Botu to modify the module name and IP address	14
Five, STEP 7 connection to use this module	20
5.1. Preparation before connection	20
5.2. Add GSDML file	
5.3. Adding PROFINET devices to the project tw	enty one

Table of contents

5.4. Configure modus communication parameters	. twenty three
5.6. Configure Modbus message twenty four	
5.7, STEP 7 modify the module name and module IP address	
6. Sending message process	27
revise history 1	

1. Product overview

1.1. Product Introduction

PN-MB series modules mainly convert Profinet protocol into Modbus Rtu protocol. Support Siemens smart 200,

Siemens 300, Siemens 1200, and Siemens 1500 are products with stable economy, easy installation and strong applicability.

1.2. Features and functions

ÿ Profinet protocol to Modbus protocol

ÿ Using standard profinet protocol communication, can be networked with PLC, configuration, host computer, etc.

ÿ It adopts standard Modbus communication, supports up to 4Mbps baud rate, and can control standard Modbus slave stations.

 \ddot{y} Up to 64 command nodes are supported, and some PLCs may only support a part of them.

ÿ PN2 series dual network ports support switching function

ÿ The power circuit adopts anti-reverse connection design

ÿ Widely used in the acquisition and control of Modbus equipment in industrial field equipment

1.3. Application scenarios

It is mainly used for Siemens PLC to read and write MODBUS RTU protocol frequency converters, smart meters, and temperature controllers through the Profinet protocol.

Data of control meters, weighing instruments, intelligent high and low voltage electrical appliances, power measuring devices, various transmitter instruments, etc.

2. Main parameters

2.1. Product parameters

Network port parameters	
Interface Type	RJ45
Protocol	Profinet
Maximum communication cycle	4ms
communication bandwidth	100Mbps
Serial port parameters (RS422 communication	parameters)
Interface Type	RS422 (5.08mm pitch industrial grade terminal blocks)
baud rate	1200-4.6875Mbps
The default communication forma	t is 8-bit data, 1-bit stop, no parity
When the transmission distance is 100kb/s and the	baud rate is 100kb/s, the 422 serial port communication is 1200 meters, subject to the actual situation
Serial port parameters (RS485 communication	parameters)
Interface Type	RS485 (5.08mm pitch industrial grade terminal blocks)
Baud Rate	1200-4.6875Mbps
Communication	Default 8-bit data, 1-bit stop, no parity
Format Transmission	When the baud rate is 9600, the 485 serial port communication is 1200 meters, subject to the actual situation
Distance Power Parameters	
Working voltage and	DC 24V; with anti-reverse protection
power	2W~4W
consumption Working environment	
Working Temperature	-10ÿ~+60ÿ
Storage Temperature	-20ÿ~+70ÿ
Others	
Installation	guide
method size	29MM(L)*92MM(W)*65MM(H), subject to the actual product

2.2. Indicator light description

name	illustrate			
PWR po	wer light			
SYS	Profinet communication status indicator			
ERR Communication error indicator light				
422	RS422 working indicator light			
485	RS485 working indicator light			

SYS E	RR RS	422 RS4	85	meaning	measure
1s Flash	x	x	x	Profinet established AR communication	
0.1e flach	~	¥	¥	Draffont door ont ontablish AD communication	Check PLC configuration, site name, IP address, etc.
U. IS TIASN X X Profinet does not establish AR con			^	Proliner does not establish AR communication	ls it normal
v blink	ing			The module communicates with the modbus device and works normally	
A DIII IK	ing		a	communication.	
y shiny				The module communicates with modbus devices, but the communication	Check whether the communication haud rate and parity are consistent
× 31111		un		unusual.	Check whether the communication badd rate and parity are consistent.
y spar	rlo			The module communicates with the modbus device, some messages	Detect message communication monitoring bit, found incorrect
				The reply is incorrect, and some messages are replied correctly.	messages and their reasons.
x on o	ff off			There is no communication between the module and the modbus device, the module	Check whether the modbus message trigger condition is full
				No data is sent between blocks and modbus devices.	legs

3. Product function

3.1. Overview of PN-MB functions

The RTU master station of this module can support up to 63 slave station commands, and each command can set the command type, length and communication interface.

When using the Modbus RTU function, each slave station will generate its own read and write names, and each command will be executed at a certain period (configurable).

Line polling, when the cycle is too small, the master station will give a warning, but it will still issue the next command as soon as possible after the timeout.

When using the Modbus RTU function, the write function call cannot be less than 2 times the polling period, otherwise there will be a frame write function

The case where the data is not refreshed.

Modbus communication can choose to use RS422 or RS485 interface, which can be used at the same time. Each interface parameter is set separately.

3.2. Modify IP address

The IP address of this module can be modified by software such as Botu/step7. For detailed setting methods, see Chapter 4 and Chapter 5.

In addition, special software is also provided for quick modification of ip and other information. For details, see the document "Aimoxun PN Firmware Upgrade and IP

Modify the tool instruction manual.doc".

3.4. Upgrade function

When the module is powered on, the DIP switch 1 is turned ON until the SYS light, ERR light, RS422 and RS485 lights of PN-MB

After flashing quickly, the button can be reset, and the module enters the upgrade mode. For details on the upgrade mode, see "Aimoxun PN Firmware Upgrade and

IP Modification Tool User Manual.doc".

4. Use Botu TIA to connect and use this module

This chapter introduces the process of connecting Portal TIA to PN-MB to realize corresponding functional requirements.

4.1. Preparation before connection

 \ddot{y} Prepare the XML file required by the TIA software, as follows:

GSDML-V2.3-AMX-PNMB-20230519.xml	2023/5/19 9:36	XML 文档	822 K
----------------------------------	----------------	--------	-------

ÿ Connect the DC 24V external power supply to the module and turn on the power. Before turning on the power, please check whether the positive and negative poles of the power supply are connected correctly.

 \ddot{y} Use a network cable to connect the module to the Profinet interface of the PLC controller.

4.2. Add GSDML file to Botu

ÿ Open the Botu software, select the project view, and click Options > Manage General Station Description File (GSD).

객슈 Siemens		
项目(P)编辑(E)视图(V)插入(I)在线(O) 📑 📑 🖬 保存项目 📑 🔏 🛅 🗙	选项(№) 工具(T) 窗口(W) 帮助(H) ¥ 设置(S)	浅 🖉 转至离线 🎎 🕞 📑 🗶 🖃 🛄 🗠 在项目中搜索> 🔒
项目树 	支持包(P) 管理通用站描述文件(GSD)(D) 启动 Automation License Manager(A) ④ 显示参考文本(W)	
▶ 🔚 在线访问	〇〇 全局库(G)	
☆ ◆ ● 读卡器/USB 存储器 (中)		

ÿ In the source path, select the folder where the GSDML was prepared before, and click to select the folder after completion, and Botu will automatically scan

GSDML files under this folder.

	管理通用站描述文 日安装的 GSD 源路径: F:	件 项目中的 GSD				×			
选择)		脑 > 本地磁盘(F:) > t	est → TIA	2		~ č) 搜索"TIA"		× م
· · · · · · · · · · · · · · · · · · ·	 只▼ 新建文件夹 下載 / ^ ② 文档 / / ② 图片 / / ③ 图片 / / ③ 图片 / / ④ 四片 / / ④ 四片 / / Ø 2. 艾莫迅说明主 ⑤ bluedatabase MDK PN ◎ 此电脑 ● MUR ● Win 10 Pro x64 ▲ 本地磁盘 (D:) ▲ 本地磁盘 (E:) ▲ 本地磁盘 (F:) ● 网络 × 	名称 ^	修;	收日期 没有与 <u>搜</u> 素条	<u> </u>		大小		•
	文件夹:					3	选择文件夹	取消	

ÿ Click the left side of the GSDML file to be installed, check the file, and click Install to install the corresponding GSDML file.

路径: C:\Users\111\Desktop\GSD				
入路径的内容				
〕文件	版本	语言	状态	
GSDML-V2.3-AMX-PNMB-20230519.xml	V2.3	英语	尚未安装	
	Ш			

ÿ After the installation is complete, click Close, and the GSDML file is installed successfully.

4.3. Add PROFINET devices to the project

ÿ Create or open a project. If it is a new project, add the controller device first, and then add the module in the device configuration interface.

As shown below:

项目树 🗉 📢	项目1 + 设备和网络	_#=×	硬件目录 @ □ ▶
设备	₽ 拓扑砚图 ▲1	网络视图 📑 设备视图	选项
1 III III III III III III III III III I		▲ 拓扑概覧 ()	0
1		^	▼ 目录
*] 项目1			/谢索>
 ※加速形式会 ※参考室研究会 	PLC_1 AMX-PNMB	= \$7-1200 statio	☑ 过滤 配置文件 <全部> ▼ 副
PLC_1 [CPU 12	CPU 1211C AMX-PriMB GP NORM	▼ PLC_1	Controllers
> 🔜 未分组的设备		✓ PROFINE	🕨 🛅 HMI
▶ 100 安全设置		瑞口—	PC systems
) 🛃 跨设备功能		 GSD device_1 	Drives & starters
> 📑 未分配的设备		 AMX-PNMB BOODULT 	Network components
▶ → 公共数据		PROFINE I	Detecting & Monitoring
) 圖 文档设置		TOIL I	Distributed I/O
・「日間和院達			Field devices
		2	Other field devices
● 法主導加に8 左結準		5	Additional Ethernet devices
P C PLANDER TRADE		•	PROFINETIO
			Drives
			Encoders
			🕶 📷 Gateway
			- MISAMOTION
			AMS Gateway
		100 Control 100 Co	▼ III Head module
			AMOGPNIME
			Goot Co.,Ltd.
			REDIECH
		1000	
			Sensors
		~	
	< II > 100% V	1 < 11 >	
	《居性》14.	息 3 2 诊断 0	
	244 6 交叉引用 247 (317)		
▼ 详细视图	, have latter have to have include		
	1 論位 調述 校堂 ? 福美 警告 町月		

ÿ Select the newly added device in the device view, double-click the module in the figure, and modify the Ethernet address tab in the general

Change the IP address and device name to be consistent with the module itself. Or select "Set the IP address directly in the device".

ÿ Note: When the IP address is not directly set in the device, the IP address and device name set at this time should be the same as the device itself.

If you do not know the IP address and device name of the device, you can set it at will first, and then set the IP address and device name of the module

The name of the device can be changed to be the same.

	₩ Siemens - F:\test\项目1\项	E1					_	_							_		-
Comparing (All and All an	· ○ 日 保存项目 三 ×	11 王 × 马生 (日本 品) []	●口(10) 和助(11) 引「□□□□」 💋 特至在线 🖉 ※至	画紙 🍐 🖪 🖪	×==		-									Totally Integrate	d Automation PORTA
Viel Automate Viele Automate Automate Viele Automate Automate <td>坂日樹 UA</td> <td>项目1 > 未分组的设备 > A</td> <td>MX-PNMB [AMX-PNMB]</td> <td></td> <td></td> <td>- Contraction of the second</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_ # # ×</td> <td>(硬件目录</td> <td></td>	坂日樹 UA	项目1 > 未分组的设备 > A	MX-PNMB [AMX-PNMB]			- Contraction of the second									_ # # ×	(硬件目录	
Image: State State Image: State Image: State Image: State	设备										1	🦉 拓扑视图	▲ 网络视		设备视图	选项	
· · · · · · · · · · · · · · · · · · ·	8 2	ANX-PNMB (ANX-PNMB)			设备概览												5
• Mail 1000 • Mail 1000 • Mail 1000 • Mail 1000 • Will 1000				^	₩ 模块	1	机架	插槽	1 地址	Q 地址	类型	订货号		固件	注释	▼ 目录	
• MC/MCT 0 0.1 AAAAAAA AAAAAAAA • MC/MCT • MC/MCT <td>····································</td> <td></td> <td></td> <td>=</td> <td>▼ AM</td> <td>0C-PNMB</td> <td>0</td> <td>0</td> <td></td> <td></td> <td>AMX-PNMB</td> <td>ANOX-PININE</td> <td></td> <td>V1.0.0</td> <td>-</td> <td> </td> <td>itis kiti</td>	····································			=	▼ AM	0C-PNMB	0	0			AMX-PNMB	ANOX-PININE		V1.0.0	-		itis kiti
Image: Section 22 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24 Image: Section 24		St. Martin		1	HE	PROFINET AD(Status Control Byte)	0	0 X1			AMX-PNMB HEAD(Status Contr.					☑ 过ะ 配置文件 <全部>	- 1
• • • • • • • • • • • • • • • • • • •	PLC_1 [CPU 12	2					0	2								Head module	
• • • • • • • • • • • • • • • • • • •	· 法 不力组的反面						0	3									
· · · · · · · · · · · · · · · · · · ·	> 😹 跨设备功能			1			0	5									
• 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 2 30028 • 3 30 • 40 420 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10 • 10 10 10 10	▶ □ 未分配的设备	-	DP-NORM	1			0	6									
・ 価格時代語 ・ 価格時代語 ・ 価格時代語 ・ 価格時代語 ・ 価格時代語 ・ 価格時代語 ・ 価格時代語 ・ 価格時代語 ・ 価格時代語 ・ 個本 ・ 一本 ・ 個本 ・ 一本 ・ 個本 ・ 一本 ・ 一本 ・	> 如 文档设置			-			0	7									
· 國 (如 約10) · 國 (如 約10) · 國 (如 約10) · 國 10) · 國 (如 約10) · 國 10) · 國 (如 10) · 國 10) · 國 (10) · 國 (10)	· Co 语言和资源			1			0	9									
	 ・ (2 版本控制接口 ・) ・ (本 技) ・ (本 ป) ・ (本 ป)	<u> </u>					0	10									
0 13 AMX PAMAG [AMX PAMAG] 0 13 AMX PAMAG [AMX PAMAG] 0 14 AMX PAMAG [AMX PAMAG] 0 14 AMX PAMAG [AMX PAMAG] 0 14 AMX PAMAG [AMX PAMAG] 0 0 AMX PAMAG [AMX PAMAG] </td <td>▶ 🕞 读卡器iUSB 存储器</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	▶ 🕞 读卡器iUSB 存储器						0	11									
文目 20 20 20 20							0	13									
Accentation Staff Light () Light () <thlight ()<="" th=""></thlight>		< II	> 100%		<		0	3.4		10					>		
第級 10 安世 系級 第級 第級 第級 (以大阴地址) 第級 建口速接到 第四時間 第四時間 第回時間 第四時間 第回時間 第四時間 第回時間 第四時間 第回時間 第回時間 第回時間 第回目 第回時間 第回目 <td< td=""><td></td><td>AMX-PNMB [AMX-PNMB]</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>风展性</td><td>1.信息 1</td><td>见诊断</td><td></td><td></td><td></td></td<>		AMX-PNMB [AMX-PNMB]										风展性	1.信息 1	见诊断			
* 京崩 (人大肉地址) * * 京崩 * * 京向 * * 宮の地病 * * 名の地病 * * 名の地病 * * 2013時 * * 2013日 * * 1913日 * * *		常規 10 变量 系统	常数 文本										-			1	
* Romerting [01] * Konneut # Ližký) # Ližký) # Ližký) # Ližký) # Ližký) # Ližký) # Ližký) * Jiříče * Somerting [01] * Norma * Bonerting [01]		▶ 常规	DI-+-maket														
ボペ いば大用地は ・ 高加品の 第 といろの ・ うまけので いの用助 ・ プロ・() ドリ がの可能・ 非し注表例 ・ ・ 二のの ・ う見め ・ ション ・ ジャロ・() ドリ 報の可能・ ・		▼ PROFINET接口 [X1]															
· 名的话机 · 子用: 年月 · 日月 · 名印 · 日月 · 日月 · 20日 · 日月 · 日日 · 20日 · 日日 · 日日 · 111 · 日日 · 111		以太同地址	扳口庄 扳到														
		▪ 高级选项	子网:	未联网											•		
・		接口选项		添加新	子阿												
・ hort [pt h] ・ hort [pt h] • hort [pt h]		10 周期	10 16 32														
		Port 1 [X1 P1]	IP BNX														
<		标识与维护		● 在项目中设置	IP 地址												
<				IP其	出: 192.1	68.0.1											
> 详细视图 > ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	< II >			子网络	码: 255.2	55 . 255 . 0											
	✓ 详细视图	-	1	☑ 同步路由器设	置与10控制器												
A(A) D O O O O O O O O O O O O O O O O O O				一便用路田器													
PROFINET	L av the			第日沿其													
PROFINET	-AM		L	〇社役萬平風到	ICAE II JEDIE												
			PROFINET														
C data + d annaux v A.S. data					autor (花卉、小学)												
C DELET (Second)			PROFINET 10 4 4282	amy-nomb	「二」の「「「「」」」」												
14 Markets and Engine Consideration and Annual An			转换内名称:	amxpnmb													
	121 m 115		设 会 编号 :	1												入 信白	

 $\ddot{\text{y}}$ Assign the added modules to the PLC in the network view:

Siemens - FixesturiAirESTITEST			
I项目(P) 编辑(E) 视图(V) 插入(I) 在线(O) 选项(N) 工具(T) 窗口(W)	黎助(H)		Totally I
🔮 🕒 🕼 保存项目 📑 🗶 迫 迫 🗙 🌖 🖢 (Pit 🖄 🖽 🖽 🖽	🕼 🖉 转至在线 🖉 转至离线 🌆 🔝 📰 🗶 🚽 🛄 《在项目中被索》 👘		rouny n
项目树 🛛 📢	TEST > 设备和网络	_ # = × _	硬件目录
设备		🦉 拓扑视图 📠 网络视图 📑 设备视图 뉯	先项
1 III III III III III III III III III I	💦 网络 🚼 连接 HAA 连挤 🔹 🐷 🥫 🗐 🖽 🚹 🔍 ±		
		<u> </u>	目录
TEST			·搜索>
■ 添加期役會	PLC 1	= 6	3 讨难 再爆女件 一会
▲ 设备和PM络	CPU 1211C		
PLC_1 [CPU 1211C DC/DC/DC]	* 4 PD		C STATES
	BH C 1 PROFINET 接口 1		nina Dia pr Vict
			Ten attaket and a skett
2 祖所状	PN/IE_1		
			合金式の
			日本にある
			Tim serizione
・「読 血理与強制表			「日甘之祖法道祭
• Lag 123X W 07			
 Marces Marces 			
		1.5	
三アに接筆文本列表			
- 四 中地探视			
· 如 汉王汉直 · Classic 年上年			
「「「「「「「」」」」 「「」」 「「」」 「「」」 「」」 「」」 「」」			
「「「「「「「」」「「」」「「」」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「」 「 」			
「「「「「「」」「「」」「「」」「「」」「」」「「」」「」」「」」「」」「」」		~	

4.4. Configure modus communication parameters

ÿ After finishing, click the device view to enter the device view operation interface.

ÿ In the device overview area, the system provides 64 slots, of which the first slot is the default device status word and

Device control word slot (HEAD(Status Control Byte)_1), through the status word PLC can read the operation status of the device

Line status, through the control word, PLC can operate PN-MB equipment.

ÿ Select the first slot and select Properties to set the MODBUS interface parameters of the PN-MB device.



ÿ PN-MB equipment module Modbus communication interface parameters:

--Modbus as Master Or Slave : This module only supports master station mode temporarily, this option is gray and cannot be selected.

--Modbus Slave Address: set in Modbus slave mode, not in master mode.

--Custom Baudrate: Customer non-standard baudrate setting, when this option is 0, the following option baudrates are available.

--Baudrate: Standard baud rate. Supported baud rate range: 2400-115.2k, the default is 9600, available when the Custom Baudrate option is 0.

--Data bit: set the data bit, 8 bits and 7 bits can be selected. The default is 8 bits.

--Parity: Set data parity, you can choose no parity, odd/even parity. The default is no checksum.

--Stop bit: Set the data stop bit, you can choose 1 stop bit or 2 stop bits. The default is 1 bit.

--Inter Character: Set the data interval character. After receiving the first frame of data, the master station will confirm how long it will wait before receiving the message. 3.5t-49t can be selected. The default is 7t.

--Max retry number: Set the number of error retries, 0-255, 0 does not resend, 255 infinite resends, 1-254 resends by the number of times.

--Response Timeout: After the module sends a Modbus message, it waits for the response time of the Modbus device. If the MODBUS device still does not respond within the set

waiting time, the module stops waiting and continues to send the next MODBUS message. Select the range of 10ms-1000ms and wait for an answer indefinitely (Keep waiting...).

--Delay Between Polls: After the bus conversion module receives the correct message from the MODBUS slave station, it delays sending the message from the MODBUS master station time. If the MODBUS slave device responds slowly to the master station message, if the bus conversion module sends the MODBUS message too fast, then there will be a communication failure. If there is a fault, the interval between sending packets can be appropriately increased. The selection range is 10ms-1500ms or no waiting (No Delay). The default value is 50 ms. --COM2 interface parameters are the same as COM1 interface parameters, please refer to COM1 interface description for details.

4.5. Configuration status word and control word

From the device overview configuration, we can see that slot number 1 is automatically occupied by the system (HEAD(Status Control Byte)_1), where in the column of I address, The corresponding PROFINET input address IB1-9 is the communication status monitoring bit. In the Q address column, the corresponding PROFINET output address QB1-9, QB1 is the communication control word (control) of this bus conversion module, and QB2-9 are the control bits sent by each message.

ÿ Communication status monitoring:

The first byte: RS485 error slot number

The 2nd byte: RS485 error code

The 3rd byte: RS422 error slot number

The 4th byte: RS422 error code

Other bytes are reserved.

Error Code Meani	ng	
-1	No telegrams are set, modbus is enabled	
-2	There are no writable nodes, all nodes are disabled or only read and write once	
-21 The length of t	he received byte is less than 5 bytes, and the data sent by the modbus slave device is not complete	Check slave device status or increase Inter
	complete or no response from the device.	Character parameter.
-22	The CRC check failed, the Modbus communication was disturbed or the slave device sent an error	
	Error, the received byte length is greater than 5 bytes, but the complete packet is not actually sent	
1	Illegal Function	Modbus slave device does not support this command
2	Illegal Data Address Illegal	The length of the message setting read or write command is wrong
3	Data Value Slave	Message setting write command data is incorrect
4	Device Fault Slave Device	Modbus slave device cannot receive data command
6	Busy	Modbus slave busy

ÿ Communication control bit:

-- 1st byte:

Bit 0: Whether the Modbus function RS485 interface is enabled, 1 = enabled, 0 = not enabled

Bit 1: Whether the RS422 interface of the Modbus function is enabled, 1 = enabled, 0 = not enabled

Bit 4: Clear the fault code. When a rising edge (0->1) is detected, the communication status monitoring is cleared.

Other bits are reserved.

2nd byte to 9th byte:

Each slot of the message corresponds to one bit. The corresponding form is shown in the table below.

When the message is configured to be triggered by a rising edge (see 4.6 message setting), when this bit is changed from 0 to 1, the message is enabled to be sent once.

When the message is configured as level trigger (see message setting in Chapter 4.6), when this bit is set to 1, the message will be sent cyclically, and when it is set to 0, the message will stop

stop looping.

	2nd	byte:	
--	-----	-------	--

	-							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	Slot 8 Slot	7 Slot 6 Slot 5	Slot 4 Slot 3 Sl	ot 2 Empty				
T	he 3rd byte:							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	Slot 16 Slot	15 Slot 14 Slot	t 13 Slot 12 Slo	t 11 Slot 10 Sl	ot 9			
T	he 4th byte:			-				
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	Slot 24 Slot	23 Slot 22 Slot	21 Slot 20 Slo	t 19 Slot 18 Sl	ot 17			
T	he 5th byte:							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	Slot 32 Slot	31 Slot 30 Slot	29 Slot 28 Slo	t 27 Slot 26 Sl	ot 25			
T	he 6th byte:						-	
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	Slot 40 Slot	39 Slot 38 Slot	37 Slot 36 Slo	t 35 Slot 34 Sl	ot 33			
T	he 7th byte:							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	Slot 48 Slot	47 Slot 46 Slot	t 45 Slot 44 Slo	t 43 Slot 42 Sl	ot 41			
T	he 8th byte:							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	Slot 56 Slot	55 Slot 54 Slot	53 Slot 52 Slo	t 51 Slot 50 Sl	ot 49			
T	he 9th byte:							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	Slot 64 Slot	63 Slot 62 Slot	61 Slot 60 Slo	t 59 Slot 58 Sl	ot 57			

4.6. Configure Modbus message

There are a total of 64 slots in the device overview, the first slot is occupied as a status word and control word, and the remaining 63 slots are available for configuration

MODBUS telegram (command). Each slot can be used to insert a MODBUS communication message (command), so a total of 63 MODBUS

Communication messages (commands).

Click on the module in the hardware catalog on the right and there are four Modbus address operation folders. Click on each folder to select the corresponding

Operations on the number of addresses

Directly double-click the message in the hardware catalog with the left button, and the message can be configured in the MODBUS message queue according to the order of the blank slot.

Each message has six attributes.

-UART Number: Select COM1 or COM2 port.

-Modbus Slave Address (modbus slave station number address): Select the station number of the slave station device to be sent, and you can choose 1-255.

-Function Code: The function code of the MODBUS message, which is automatically generated according to the MODBUS command inserted into the slot, and cannot be changed

change.

-Start Adress (start address): start address of MODBUS slave data operation. Non-register PLC address. That is, no prefix. straight

Connect from 0-65535.

---UART Data Length (transmitting and receiving data length): automatically generated according to the length of the MODBUS command inserted into the slot, and cannot be changed.

-Transmission Type: Three transmission types are available.

Poll trigger (polling sending): After the 0th bit of the 1st byte of the control word is set to 1 by the PLC program, the message will be sorted from the slot number from small to

Larger orders are sent sequentially. In this sending mode, both read/write commands will be executed forcibly, regardless of whether the data is changed during the write command. Read command defaults to this mode

(In the previous section, for example, the PLC address Q2.0 is bit 0 of the first byte of the control word)

Level trigger (level sending): For the read command, after the control sending flag bit corresponding to the slot number changes from 0 to 1, the message will be sent according to

Slot numbers are sent sequentially from small to large; after the control sending flag bit corresponding to the slot number changes from 1 to 0, the message will stop sending. For write commands,

It will only be executed if the data has changed. Write command defaults to this mode. (In the previous section, for example, the PLC address QB2-QB9 is to send the trigger control bit)

Rising trigger (rising edge sending): After the trigger control bit corresponding to the slot number changes from 0 to 1, the message will be sent once. this sender

In this mode, the read and write commands will only be executed once when the rising edge of the corresponding slot is detected. (In the previous section, for example, the PLC address QB2-QB9 is to send trigger control bit)

The module supports the following eight MODBUS communication commands

function code	Function	Operation address area (non-register PLC address	operation type
		site)	×
01H	Read multiple coil output states Read	OXXXX	read
02H	multiple input coil states Read multiple	1XXXX	read
03H	holding registers Read input registers	4XXXX	read
04H	Force a single coil Preset a	зхххх	read
05H	single holding register	0XXXX	Write
06H	Force multiple coils Preset multiple	4XXXX	Write
0FH	holding registers	0XXXX	Write
10H		4XXXX	Write

Example: Function 01H-read the status of N output coils 0xxxx

Read the coil status whose station number is 1 and whose MODBUS device address is 00020-00043, and store the read coil status in pic whose address is

In IB10, IB11, and IB12, the read quantity is 24 Bits.

A Double-click "read 24 bits(0xxxx)" under Coils 0xxxx, as shown in the figure.

B Added a "read 24 bits (0xxxx)" message in slot number 2. "10...12" in the I address column

The 24bits data returned by the slave station will be sent to the "IB10, IB11, IB12" addresses in S7-1200PLC through this bus conversion module.

C Fill in the station number 1 in the station number of the MODBUS slave station, and read the data of station 1. Note: The slave station address cannot be set to 0.

D Fill in 20 in the initial address parameter, and read the coil status of the MODBUS device whose address is 00020~00043.

E Fill in 24 for the number of reads.

Other parameters are selected as COM1 interface sending and polling mode sending.



MODBUS message analysis

Master station inquiry message format

address	Function code hig	h start address low start addre	ss number of coils high number o	f coils low CRC		
01	01	00	14	00	18	WJEC

Message start address=0014(H)

Slave response format:

Address function	n code byte cou	nt	coil status 20-27	coil status 28-35	coil status 36-43	coil status 44-51	coil state 52-56	CRC
11	01	05	CD	6b	B2	0E	1B	44EA

4.7. Use Botu to modify the module name and IP address

 $\ddot{\textbf{y}}$ Open the Botu software and select to enter the project view.

启动	
设备与网络	🥚 打开现有项目
PLC 编程	 创建新项目 移植项目
运动控制 & 🔅	● 关闭项目
可视化	● ንቀ አህ ንት ነት
在线与诊断	● 新手上路
	● 已安装的软件
	● 帮助
	③ 用户界面语言
▶ 项目视图	

ÿ Expand online access, select the network card connected to the module, and double-click to update the accessible device after expanding.



ÿ As shown in the figure below, the updated network card is connected to a module, a PLC and a switch. Click on the module to be modified, expand

Open, double-click online and diagnosis, and modify the IP and module name in the pop-up interface.

100			
現し	注(P) 編輯(E) 視問(N) 插入(0) 在线(D) ★ ○ □ 保存项目 ■ × □ □ × ○	85500 IIFの 1800の 開助の までき 1100000000000000000000000000000000000	所至在线 🦉 所至應线 🌆 🎚 🎜 🛄 🔯 夜日中搬索> 🍐
	项目树 🔳 🕯	在线访问 → TwinCAT-Intel PCI	Ethernet Adapter (Gigabit) + amx-io-21 [192.168.0.21] + amx-io-21 [192.168.0.21] [192.168.0.21]
	设备		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	▼诊断 登却	功能
鴽	▼ 🖬 在线访问	• 功能	分配 『地址
在线与计	Y 显示規構接口 COM (15×18232/PP 多主技編單电約) COM (15×18232/PP 多主技編單 COM (15×18232/PP 多主技編里 TwinCATAintel PCI Ethermet Adapte受 加爾可可約的的發展 金 型示型方規創 金 型示型方規創 でして192168.0231 で 画 amxio21 [192168.021]		为该设备分配 IP 地址 ■ 這種到企业网络或量描读機到 internet 的设备必须采取合适的保护措施以防止未经授权的访问。 例如通过使用预欠描或网络分段。 有关工业安全社的更多简思。请访问 <u>http://www.itemens.com/industralisecuity</u>
	U. 在线和创始 4. (1) 42000134m1 (192-168.0.254) 2. WAWARE Virtual Ethernet Adapter f., 10 2. Bealesk PCIe GbE Family Controller 1. Microsoft (MHESTLoopback Ada 10 2. Criticmani (古地) 2. USB (57USB) 3. TeleService (自动协议识别) 3. TeleService (自动协议识别) 3. (1) 读卡器IUSB 存錄器		MMC地址: 00-FF -FF -FF -FF -21 回访问设督 FF地址: 192,168,0 21 子府擁码: 255,255,0 使用路由器 路由器地址: 0 0 0 0 0 分配 IF 地址
			分配 PROFINET 设备名称
	< = > × 详细祝昭		狙态的 PROFINET 设备 PROFINET设备名称: amxio-21 设备类型: AMX-PH-HOSRA

ÿ When there are multiple modules and you don't know which one to modify, you can click the LED shown in the figure below to flash. At this time, the red LED on the module indicates

The light will start blinking. After the name or IP is modified, click Assign Name and Assign IP Address, and the module name and IP address will be updated.

site.

	PROFINET设备名称: 设备类型:		amxio-22 AMX-PN-IOSR-A			
网络中的可认	设备过滤器 (位量示) (位量示) (位量示) (位量示)	、同一类型的设备 参数设置错误的 设有名称的设备))))	11+		
IN TRAT	MAC JUJI	ts: mi	PROFINET 或面右動			

ÿ Double-click the update accessible device on the left column again, wait for the update to complete, then select the station name and IP of the module just modified, expand,

Double-click Online and Diagnostics. At this point, you can see that the module IP and station name have been updated.



TWINCAT-InterPol Ethernet Adapter (Gigabit), TCPIP.Auto.1 PROFINET 设备 192.168.0.21 (amx+0-22) □ SCALANCE X-200 □ 192.168.0.254 (x80jb01xan1)	 ▼ 使设面的4-C-4F4&P3/M, 仅使目测压接的设面。 MAC 地址 00:FF:FF:FF:21 闪烁指示灯 IP 地址 192.168.0.21 子网摘码
查找设备	
	取消

 $\ddot{\text{y}}$ Click Edit to modify the station name. After modification, click Settings to download the station name.

通信接口 TwinCAT-Intel PCI Ethernet Adapter (Ginabit) TCPIP. Auto. 1 ▼	按下"编辑"按钮以更改所选设备的名字。按下"闪烁指示灯"按钮 使设备的LED持续闪烁,以便目测连接的设备。
PROFINET 设备 ● AMX-PN-IO8R-A ● 192.168.0.21 (amx-io-22) ● 2 SCALANCE X-200 ● 192.168.0.254 (x80jb01xan1)	MAC 地址
	转换后的名称: amx-io-22
	取消

ÿ After the download is complete, set the corresponding IP address of the module during configuration. After the program is downloaded, the corresponding IP address of the module will be modified. When setting the configuration

See Section 4.3 for IP details.

Five, STEP 7 connection using this module

5.1. Preparation before connection

Prepare the required XML files as follows:

GSDML-V2.3-AMX-PNMB-20230519.xml	2023/5/19 9:36	XML 文档	822 K

Connect the DC 24V external power supply to the module and power it on. Before powering on, please check whether the positive and negative poles of the power supply are connected correctly.

Use a network cable to connect the module to the Profinet interface of the PLC controller.

5.2. Add GSDML file

Open the step 7-microWIN SMART software, click GSDML management, find "import new

GSDML", click Browse, select the prepared GSDML folder, click to select the file, and click Open.

	· · · · · · · · · · · · · · · · · · ·	项目 创建 POU 切开文件夹 数編页 存储器 属計 库	XML GSDML 管理 GSDML							
0 4	O 凶 合 上传 - ♣ 下载 MAIN × SBR_0 IN 程序注释 提成設注释	- 念 插入 → 2 删除 → T_0		╡╩╚╬╬╪┿╡╪╧┿╡╪┽╲╌╝╡╡	⊃ • 🏙 🛃 🔀 🔏	2	_	_		_
	**±	GSDML 管理 简介	 ■ 导入 GSDML 文件 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	文档 → 武汉 → PN-MB → 焼景 → 最新			 ▼ 4→ 1 (現実 %) 	l#F }⊞ ▼		× ~
2 3	 输入注释 着 着 着 着 着 着 着 着 着 着 着 着 着 着 着 着 着 着 <lp> </lp> 	可用'GSDM 导入的 GSD 1 2 3 7 4 6 5	▲ ● 観城策 ▲ ● ● 副片 ● ● 首乐 ● ● 音乐 ● ● 本地磁盘 (C) ● ● ● ● ● 本地磁盘 (C) ● ● ●	○ 名称 「○ 書 GSDML-V2.3-AMX-PNMB-2023051	修改日期 2023/5/19 9:36	英型 XML 文档	大小 822 KB			
< 安量 1 2 3 4	表 地址 符号	安里类理 TEMP TEMP TEMP TEMP TEMP	▶ USB DISK (H:) ▶ ● WPS云曲 500 ▶ ● @ 网络 ★ dm 文件名	트(10): GSDML-V2.3-AMX-PNMB-20230519.xm	า		▼ GSDML 打开	file(*.xml)	取消	

Click OK to complete the installation.

5.3. Add PROFINET devices to the project

Select the PROFINET command under the Tools menu.

			项目 1 - STEP 7-Micro/WIN SMART
文件编辑视图 PLC 调试	工具 帮助		
	t 数据日志 PROFINET	运动控制面板 PID SMART 査找 控制面板 驱动器组态 - PROFINET 设备	送近の 改正
主要 · · · · · · · · · · · · · · · · · · ·	▶ 上传 - ♣ 下载 - × <mark>SBR_0</mark> INT_0	2 🛎 🖨 😁 🗆 昭 成 - 維陽) - 人社 최 -	╡╩╩╬┇╪╤╧→╡╫╲╢╡ <mark>┍╶</mark> ╩┇ <mark>╠</mark> ╎╬╬

Select the PLC role as the PLC controller, and set the corresponding parameters such as the IP of the PLC controller. Click Next when finished.

PROFINET 配置向导 PROFINET网络 应 控制器(CPU ST20_plc200smart)	篇介	×
	此向导允许您逐步地配置 PROFINET 网络。PROFINET 配置信息在顶目中生成并存储,可和项目一起下载到 PLC 中。	
	PLC角色 送择PLC的角色 「 定 控制器	
	「智能设备 「PROFINET 接口参数由上位控制器分配	
	* 固定P 地址和G名 友选时钟: 1.000 ▼ ms	
	2.6784529. DEC DEC DEC DEC DE	
	TYY39(11)	
	24.44737. 0.0.0.0	
	seres: piczousmart	
< >	上一步 下一步 生成 取消	

Select AMX-PMMBV1.0.0 under PROFINET-IO>Gateway>AMS Gateway> in the right column, click to select,

Then hold down the left button and drag it into the table on the left.

Double-click the device name column and fill in the corresponding device name. The same device name cannot exist in the same project, and the same IP address should be set.

It must be in the same network segment as the PLC controller.

Note: The device name set at this time needs to be consistent with the device. If you do not know the device name, you can set it at will first, and then set the module

It is enough to change the device name to be the same. The IP address set at this time will be set as the IP address of the module with the same device name during configuration.

set value. Please refer to Section 5.5 "Modification of Module Name and Module IP Address in STEP 7-MicroWIN SMART" for device name modification.

控制器(CPU SR20_plc200smart) AMX-PNIMBY1.0.0-amx-pnmb.dev1 AMX-PNMB(0) 日 HEAD(Status Control Byte)(1) 司 完成	amx-prmb.de 设备表列出了 可从石刻设备 设备表	9/1[AMX-PN 此 PROFINET 网络当前组态的 目录树添加设备。	pic 13	200smart 2 168.2.1		
	设备是	米刑	设备之	TP 谄뽕	TP +th+t+	
	<u>设备号</u> 1	<u>米</u> 用 AMX-PNMBV1.0.0	방음 오 amx-pnmb.dev1	TP 沿置 用户设置	IP 地址	
	设备号 1 2 3	<u>米</u> 刑 AMX-PNMBV1.0.0	방중名 amx-pnmb.dev1	用户设置	IP 地址	し 订
	设备号 1 2 3 4	AMX-PNMBV1.0.0	방유후 amx-pnmb.dev1	用户设置	₽地址	↓ 订货号: AMX-PNMB 版本:
	设备号 1 2 3 4 5 6	###I	방음은 amx-pnmb.dev1	用户设置	IP 地址	订货号: AMX-PNMB 版本:
	设备号 1 3 4 5 6 7	米理 AMX PNMBV1.0.0	방중옷 amx-pnmb.dev1	用户设置	IP 地址	订货号: AMX-PNMB 版本: GSDML-V2.3-AMX-PNMB-20230519.xml
	设备号 1 2 3 4 5 6 7 8	大田 AMX PNMBV1.0.0	设置系。 amx-pnmb.dev1	用户设置	IP 地址	订货号: AMX-PNMB 版本: GSDML-V2.3-AMX-PNMB-20230519.xml 说明:
	设备号 1 2 3 4 5 6 7 8 8	<u>**用</u> AMX-PNMBV1.0.0	设容文 amx-pnmb.dev1	用户设置	IP 地址	订货号: AMX-PNIMB 版本: GSDML-V2.3-AMX-PNIMB-20230519.xml 说明: GSDML-V2.3-AMX-PNIMB-20230519.xml

5.4. Configure modus communication parameters

Click "HEAD" to configure modbus communication parameters, com1 is 485 parameters, com2 is 422 parameters

PROFINET 配置向导	
ROFINET网络 注物器(CPU SR20_plc200smart) 日 AMX-PNMB(1).0.0-amx-pnmb 一個 AMX-PNMB(0) 日日AD(Status Control Byte)(1)	该页可配置所选模块的每个子模块。 HEAD(Status Control Byte)
	Modbus as Master or Slave Modbus as Master Modbus Slave Address(1255)
	COM1 Parameters
	Custom Baudrate 0
	Baudrate 3600 bps 🔽
	Data bit 8 bit 💌
	Parity None Parity
	Stop bit 1 bit 💌
	Inter Character 3.5 t 💌
	Max retry number 3
	Response Timeout 20ms
	Delay Between Polls 50ms 🔽
	COM2 Parameters
< >	上一歩 下一歩 生成 取消

PN-MB equipment module Modbus communication interface description:

--Modbus as Master Or Slave : This module only supports master station mode temporarily, this option is gray and cannot be selected.

--Modbus Slave Address: set in Modbus slave mode, not in master mode.

--Custom Baudrate: Customer non-standard baudrate setting, when this option is 0, the following option baudrates are available.

--Baudrate: Standard baud rate. Supported baud rate range: 2400-115.2k, the default is 9600, available when the Custom Baudrate option is 0.

--Data bit: set the data bit, 8 bits and 7 bits can be selected. The default is 8 bits.

--Parity: Set data parity, you can choose no parity, odd/even parity. The default is no checksum.

--Stop bit: Set the data stop bit, you can choose 1 stop bit or 2 stop bits. The default is 1 bit.

--Inter Character: Set the data interval character. After receiving the first frame of data, the master station will confirm how long it will wait before receiving the message. 3.5t-49t can be selected. The default is 7t.

--Max retry number: Set the number of error retries, 0-255, 0 does not resend, 255 infinite resends, 1-254 resends by the number of times.

--Response Timeout: After the module sends a Modbus message, it waits for the response time of the Modbus device. If the MODBUS device still does not respond within the set waiting time, the module stops waiting and continues to send the next MODBUS message. Select the range of 10ms-1000ms and wait for an answer indefinitely (Keep waiting...).

--Delay Between Polls: After the bus conversion module receives the correct message from the MODBUS slave station, it will delay sending the MODBUS master station message. If the MODBUS slave device responds slowly to the master station message, if the bus conversion module sends the MODBUS message too fast, then there will be a communication failure, and the interval between sending messages can be appropriately increased. The selection range is 10ms-1500ms or no waiting (No Delay). The default value is 50 ms. --COM2 interface parameters are the same as COM1 interface parameters, please refer to COM1 interface description for details.

5.6. Configure Modbus message

Add corresponding MODBUS messages according to equipment requirements

ROFINET网络 控制器(CPU SR20_plc200smart)	单击"添加"按钮来为该设备添加模块。						▲ AMX-PNMBV1.0.0 日 主模块 Ⅲ — AMX-PNMB	
AMX-PNMB(0)			序号	模块名	子模块名	插槽_子插槽	PNI 起	a 日 模块
HEAD(Status Control Byte)(1)	1		0	AMX-PNMB		0		Cols 0xxxx
Read 08 Words 4xxxx(2)	2	PROFINET 0.32768(x1)	Helding Registers 4yyyy					
FCR4	3		Port 1	0 327690<1	- Write Single Word 4xxxx			
	4		1	HEAD(Status Control Byte)		1	128	E Read 01 Words 4xxxx
	5		2	Read 08 Words 4xxxx		2	137	Read 02 Words 4xxxx
6 7 8	6	Г				3		- Read 03 Words 4xxxx
	7 - 4		Read 04 Words 4xxxx					
	8	8 - 5	5	-	Read 05 Words 4xxxx			
	9					6		Read 07 Words 4xxxx
	10		-			7		Read 08 Words 4xxxx
	11	Г	++			8		Read 09 Words 4xxxx

Set the sending port, station number, starting address, and sending mode. For parameter descriptions, refer to Chapter 4.6

PROFINET 配置向导		
ROFINET网络 〕 控制器(CPU SR20_plc200smart) 己 [] AMX-PNMBV1.0.0-amx-pnmb	该页可配置所选模块的每个子模块。	
AMX-PNMB(0) HEAD(Status Control Byte)(1)	Read 08 Words 4xxxx	
Lanie Read 08 Words 4xxxx(2)	订货号 .	
	固件版本 .	
	GSDML 路径 C:\Users\Public\Documents\Siemens\STEP 7-MicroWIN SMART\GSDML \GSDML-V2.3-AM<-PNMB-20230519.xml	
	Device Specific Parameters	
UART Number RS485 -	UART Number RS485 -	
	Modbus Slave Address(1255)	
	Function Code 3	
	Start Adress (0-65535) 0	
	UART Data Length 8	
	Transmission Type Poll trigger	
< <u> </u>	上一歩 下一歩 生成 取消	

After filling in the parameters, click Generate. Refer to Chapter 4.5 for the status word and control word

5.7, STEP 7 modify the module name and module IP address

When using Step7 micro to set the module name and IP address, the smart 200 will automatically set the

The IP address is sent to the module corresponding to the station name, so only the station name needs to be modified.

Open the step7 micro/WIN smart software, and open the search PROFINET device under the tool bar.

 文件 編輯 视图 	PLC 调读 工具 帮助		项目 1 - STE	P 7-Micro/WIN SMART	
高速计数器 运动 PD PWM	文本显示 Get/Put 数据日志 PROFINET 回号	ND SMART 控制面板 驱动器组态 - PROFINET 设备	2 2 2 2 2 2 2 2 2 2 3 2 3 2 3 3 3 3 3 3		
	0 > パ 金 上传 - 単 下號 - 協 瓶 1 MAN × SR.0 NT.0 1 現先は 7 1 2 (1) 人士祥 1 7 (1) 人士祥 1 8 (1) 人士祥 1 8 (1) 人士祥 1 8 (1) 人士祥 1 7 (1) 人士祥 1 7 (1) 人士祥 1	▲ - 次 期除 - 次 調 □ ● ● ● ▲ 日 ■ SSPROFINETES ■ 直接通 「WecArtional PCI ■ のでわどて 公員 ■ 約線売型	a a m dight rt → - + + + ↔		
● (2010年) ● (2011年) ● (2	************************************	注解		取消	

Click to find the device, and after finding it, click to select the module whose station name needs to be modified. If there are multiple modules, you can click the flashing indicator

light, the red light on the module will flash.

11月後山	按下"编辑"按钮以更改所选设备的名字。按下"闪烁指示灯"按钮
winCAT-Intel PCI Ethernet Adapter (Gigabit).TCPIP.Auto.1	使设备的LED持续闪烁,以便目测连接的设备。
2 PROFINET 设备	MAC 地址
→ AMX-PN-TOSR-A	00:FF:FF:FF:FF:21 闪烁指示灯
□	
192. 168.0.254 (x80jb01xan1)	192,168,0,21
	子网摘码
	255.255.255.0
	默认网关
	192,168,0,22
	站名称 (中文,ASCII字元 'a'-'z','0'-'9','`和 ''。不可以 '`,'' 和 'port-n(n=09)'开始,不可以 \` 和 ''结束。
	amx-io-22 编辑
	转换后的名称: amx-io-22
查找设备	
	HINS

Click Edit to modify the station name. After modification, click Settings to download the station name.

6. Send message process



