Profinet 从站转 EtherNet/IP 从站网关 产品手册 型号: SG-PN-EIP(S)-220



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版	本	信	息
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一、产品概述

1.1 产品用途

本产品是 PN(Profinet)和 EtherNet/IP 网关,使用数据映射方式工作。

本产品在 PN 侧作为 PN IO 从站,接 PN 主站设备,比如西门子 PLC 等;在 EtherNet/IP 侧做为 EtherNet/IP 从站,接 EtherNet/IP 主站设备,比如欧姆龙 PLC 等,用户不需要了解具体的 PN 和 EtherNet/IP 协议即可实现 PN 主站设备和 EtherNet/IP 主站设备之间的数据交互。

常见的拓扑结构如下图所示:



1.2 硬件参数

硬件参数	参数说明
电源	9-36V(典型值 12V/120mA),带过压、过流保护
工作温度	-30~75℃
工作湿度	5%~95%无冷凝
PN 🗆	两个 RJ45 以太 网接口, 支持 100BASE-TX, MDI/MDIX 自侦测, 集成以太网交换机, 方便将 PN 设备组成菊花链
EtherNet/IP 口	带 2 个 RJ45 以太 网接 口, 支持 100BASE-TX, MDI/MDIX 自检测, 集成以太网交换机,可以组成链 式网络
外形尺寸	(长) 132mm×(宽) 100mm×(厚) 26mm
安装方式	46mm 导轨

1.3 软件参数

软件参数	参数说明
	Conformance Class A and B
	Real Time Class 1
PN	LLDP
	SNMP
最大映射数据量	输入 496; 输出 496
	PN 端通过 GSD 配置
<u> </u>	EtherNet/IP 端通过软件配置
通信延时	小于 12ms

1.4 外观尺寸



二、安装、启动

2.1 接口

1、电源

产品电源接口采用 5.08 压线端子排方式, 接线端子排线序如下。



接口符号	参数说明
圆头 V1	接圆头电源7-36V(和端子 V1 不能同时接)
端子 V1/V2	接直流 9-36V 正
G	接直流 9-36V 负
PE	接大地

2、PN 端采用两个百兆 RJ45 接口,如下图:



3、EtherNet/IP 端采用两个百兆 RJ45 接口,如下图:



4、复位按键



RST 用来对 EtherNet/IP 侧恢复出厂设置,当用户忘记当前 IP 地址导致无法 通信或配置时,长按 RST 按键直到 SY2 灯不停闪烁,接着模块会自动重启并以 默认参数运行,默认参数如下:

送椅	闷卡:	192.168.0.	210 (本 👻	naedi:	192. 168. 0. 37	
0-3	Ť:	52	3	子网搞到:	255.255.255.0	1
T- 3	0:	52		闷关地址:	192. 168. 0. 1	
保持	·清零:	保持	•]	字节交换:	不交換	•
	序号	껲号	TF地址	WACH	址	固件版本
•	1	GTEK ELP TIL	192,168,0	37 80:0C:	49:68:47:39	1.7
			_			
	撥索设备	被取设 行	新参数	配置设	*	重启设备
设备	则表,显示排	3描到的设备				

2.2 指示灯

指示灯如下图所示:



PW	电源指示灯
SY1	PN 系统正常指示灯
PN	PN 组态成功时常亮
TR	PN 系统和 EtherNet/IP 系统交换数据时闪烁 (闪的很快,看着像常亮)
SY2	EtherNet/IP 系统正常指示灯
EIP	EtherNet/IP 组态成功时常亮

三、配置软件说明及 PN 端的配置实例

3.1 配置软件的使用说明

配置软件配置的是网关的 EtherNet/IP 接口的参数,配置时电脑要跟网关 EtherNet/IP 接口连接。

双击配置软件图标,进入配置界面:

	-	_			
选择网卡:		•	IP地址:	192. 168. 0. 37	
0-≻T:			子同摘码:	255. 255. 255. 0	
T->0:			闷关地址:	192, 168, 0, 1	
保持清零:	保持	•]	字节交换:	不交換	•
序号	塑목	IP地址	WACHO	Ψ	固件版本
#\$\\\	SZ BY U	588	10 8 0		重启设备

步骤1选择网卡:

选择	阙卡:	192.16	8.1.210 (本 🚽	12地址:	192.168.0.37	
0->	τ.		j	子网摘码:	255, 255, 255, 0	D
T- >	0:		1	网关地址:	192. 168. 0. 1	
保持	清幸:	保持	•	字节交换:	不交換	•
	序号	코号	IP地址	WACH	址	固件版本
	搜索设备	获取	設备參數	6 250	ŭ	重启设备
选择-	个与设备在	同一广播地的东	禄			

步骤2搜索设备:

	搜索设备	and the second s	新参数	歐置设	ŭ	重启设备
						- Control of the second s
	序号	GIEK EIP TTL	192.168.0	MACH9 . 37 80:0C:	59:6F:47:39	面件版本 1.7
保持	\$清零:	保持	•	学节交换:	不交換	•
T-)	0:			同关地址:	192.168.0.1	
0-)	T:			子阿掩码:	255. 255. 255. 0	
选择	\$P9卡:	192.168.1.	210 (4 +	TE NOVE +	192.100.0.31	

步骤3获取设备参数:

先选中设备,再点击"获取设备参数"按钮。

选择网卡:	192.168	1.210 (本 🕶	IP她扯:	192.168.0.37	
0->T:			子网摘码:	255. 255. 255. 0	
τ=>0:			网关地址:	192.168.0.1	
保持清零:	保持	•	字节交换:	不交換	•]
序号 +* 1	型号 GTEX ELP IT	IP地址 192.168.	NACH) 0.37 80:0C:	址 69:67:47:39	固件藪本 1.7
			1		
搜索设备	RD	设备参数	配置设	¥	重启设备
设备列表,显示扫描	睡的设备				

步骤4修改设备参数:

O->T:设置成偶数,假如需要 17 个字节,就设置成 18。该数值要与PN 主站配置的 Input 总字节数一致,如下图所示:

					2 托扑	规相	· 网络视图
🕴 SG-GATEVINY Ethenian W Sia 🖛 🔤 🖉 🍊 💷 🛄 🔍 🐮 🔛	设备	此版					
	**	· 機線 ● SGGATEWAY ● XT	61.52 0 0	16.19 0 0.81	state .	o 地址	AD EtherNetit Slave
		Control 1 Inpus/Dulput16.Byte_1 Inpus4.Byte_1	0	1 2 3	2 318 1922	217	Control Imput/Dutput16 Byte Imput4 Byte
=		Output2 Byte_1	0	5		1819	Output2 Byte
al DP Access	PNSlave (Config V1:0	1				
	选编码卡) 0-27	192, 388, 1, 238 (B -	1 20 +	17地址: F同编码:	192.166.0 293.158.2	1.37	
	T-30	18	ş	明关地址:	182, 160, 0	1	
	保持清荣。	an .		11年文語:	不交換	•	į.
a [5] [100% [*]	序 H 1	も 新台 エフ約3 「日本 EIP TTL 192 16	1.0.31	BACHE BD: QC:	11 60 67 47 X	1	1
常规							
无可用"漏性"。 四篇未显示任何"漏性"。可能未送保过整,资素所进过数量有可且生的属性。	建定す			8(E-8)	•	\$.B	88
	r sækið fra	·输入数据和02星保持					
	_		_				

T->O:设置成偶数,假如需要 17 个字节,就设置成 18。该数值要与PN 主站配置的 Output总字节数一致,如下图所示:

								2 Hit	00.03	金 甲铅 观旧	JB
SG-GATEWAY [EtherNet) # Sie			-	设备模范							
			-	12 9	l.	81.50	15.49	,地址	o tett	A.02	
	6		-	2.10	SG-GATEWAY	0	0			EtherNet8F5	HE.
55	E.s.				 X1 	0	0 X1			SG-GATEWAY	
100					Control_1	0		2		Control	
	1				InputiOutput16 Byte_1	0	3	3,.18	2.47	Input/Output	1.83
100 000					inguti Bite_1	0	- 2 -	19.22	10.10	Inputs Byte	
-					Conduct alue	0			1819	Costporte Byte	
-	17.41104		CERTING S	MSImus Cool	lo VI A					lead the	
	Referent		ag to save,	resiave con	19 41.4					Construction of	
							raini.	1000 5808 1			
			3	8探码卡1	192, 168, 1, 210	- 101 -	ruble:	1962 399.1	1.20		
				- 7	20		于同模词:	295.295.3	55.0		
				-70	10 16+	2=18	用其地址:	192 188 0	11		
					-92.58		字节交換)	7.74	-	a l	
				12344	(8.4			11.001	-	8	
			Г	12.4	병옥	irish)	Richts	e .		001013	i
	2 100%	1.1		1	COMPANY AND THE	R2 168.0 3T	80:00:	6:67:47:3	9	T	ı
e 10						NAL CONSTRAINT	- 2242020				l
wat											l
王可用"原料"。			1 7				-				ľ
四期未留不任何"偏性"。	可能未活得对象。或者和活动像没有可	1世7的编性·		88-69	RRAD	*	8(E-2)	•	£8	16 B	
			15	exertaines)							

IP 地址、子网掩码、网关地址: EtherNet/IP 的网口参数,默认值分别为 192.168.0.37、255.255.255.0、192.168.0.1,需与 EtherNet/IP 主站的 IP 在同一个 网段,假如 EtherNet/IP 主站的 IP 是 192.168.250.10,那么软件上 IP 可以设置为 192.168.250.37 (不能与同网络的其它设备的 IP 一致)、子网掩码设置为 255.255.255.0,网关地址设置为 192.168.250.1。

保持清零:如果选择清零,那么模块与 PN 主站连接断开时 EtherNet/IP 主站的 Input 的数据就会清零,否则保持最新的数值。

字节交换:支持2个字节之间的交换,假如数据是十六进制的11223344, 那么字节交换后的数据为22114433。

步骤5配置设备:

设置完参数后要点击"配置设备"按钮。

步骤6重启设备:

点击软件上的"重启设备"按钮或者断电重启。只有重启设备,设置的参数 才会生效。

3.2 博图 V15 配置 PN 端的实例

1、打开博途v15,点击新建工程,输入工程名称

启动			创建新项目_		
	30	打开现有项目		项回名将 路径:	C:NsersISG-WMHIDocumentsIAutometion
		🥚 创建新项目 🌑 移植项目		版本: 作者: 注释:	VTS SG-WMH
	-	• xmail 2			

2、点击打开项目视图

	⇒ 设备和	inter a la companya de la	组态设备
2	-> PLC 18	a 🗇	创建 PLC 程序
	→ 5.3h	a 🚓	细杰 工艺对象
100	-> न श्र(t	Ø	组态 HM 画面
2			
100			
	AMAR INV	⇒ Eus第 → 法神経 技术 → 可視化	→ PLC编程 ◆ → 运动控制 & ◆ → 近初控制 & ◆ → 可视化 ●

3、安装 GSD 文件



管理通用站描述文件 已安装的 GSD 项目中的 GSD	dditionalEile	VICED		×
Share	ooroonarrie	51030		[***]
 文/‡ siem80a1.gsd spider_2.gsd sy_p_m.gsd vp06fav0.gsd GSDML-V2.4-SG-PN-EIP(S)-20231201.xml 	版本	语言 默认 默认 默认 默认	状态 已经安装 已经安装 已经安装 已经安装 已经安装 已经安装 已经安装	
<	111		翻涂 友装 	■ > 取消

4、添加 PLC,根据现场实际 PLC 型号添加(本实例中使用的是西门子

1200PLC)



5、添加网关



6、给网关添加输入输出,假如配置软件上设置的 O->T(对应博图的 Input) 和 T->O(对应博图的 Output)分别是 20 和 18,那么博图上 Input 总字节数要为

								新 斯	规图
SG-GATEN	WY (EtherNet)''' Sla	= 2 4 =] Q t	3	设备兼	览				
			^	12-	dik ·	机架	括標	1地址	Q 地址
	A		-		 SG-GATEWAY 	0	0		
	13				 XT 	0	0.01		
	19				Control_1	0	3	2	
	4				InputiOutput16 Byte_1	0	1	318	2.17
	10	the second s			Input-l Byte_1	0	3	1922	10000
	_				Output2 Byte_1	0	4		1819
						0	- 0		
	100	OP NORM				0	6		
						0.	7		
			÷			0	8		
						0	9		
			2			0	10		
						0	11		
						0	12		
						0	13		
						0	14		
						0	15		

20、Output 总字节数要为 18,可以给插槽如下:

如上图所示 PN 端输入 占了 20 个字节 IB3-IB22, 输出 占了 18 个字节 QB2-QB19, EtherNet/IP 主站模块的输入(Input)映射在 PN 的 Q 的起始地址就 是 2, 输出映射在 PN 的 I 起始地址就是3。

映射如下:

EIP 主站	PN 主站
Input[017]	QB2-QB19
Output[019]	IB3-IB22

7、设置 Control 模块的参数:

				一 拓扑视图	▲ 网络老	光图	11设备视	團		选项		-
SG-GATEWAY	EtherNetIP Slave		设备概算	2		-		_	-			
		^	¥2 - 1	播块	机架	插槽	1 地址			∨ 目录		
A			a second	 SG-GATEWAY 	0	0			~	< 樹索>	444	HIT.
TEN				• x1	0	0 X1	1.00			日前の	1.	-
CL CL				Control_1	0	1	2		-	+ Tim 1811	i and	-
w .				InputiOutput16 Byte_1	0	2	318	-		• [] 前後	相關決	
		1		Input4 Byte_1	0	3	19,22					
				Output2 Byte_1	0	4		244				
	And a state of the	1			0	5						
	DP-NORM				0	0						
					0							
					0	9						
					0	10						
									_			
		-			0	11						
		-			0	11 12						
)	~	4		0	11 12		>	~			
	>	¥	<		0	11 12		>	~			
m entrol_1 [Conti	ο]		<	風風性	0 0 13.信息 3	11 12 12 図 诊	Bfi 📄	>	2			
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■ ntrol_1 (Cont 常規 10 多 常規	▶ , , , , , , , , , , , , , , , , , , ,	▼ 1 文本	<	鸟属性	0 0 【生信息 4	11 12 】 弘 诊	Ni 📄	>	> + <			
	oll 2量 系统常数 Control Parameters Control Paramete	▼ ● 文本	<	三 属性	0 0 1、信息 4	11 12 】 见 诊	Ni 📄	>	> <			
	> , , , , , , , , , , , , , , , , , , ,	文本 Trs	1 < 1	5000	0 0	11 12) 见 诊1	Đĩ 📜 🕻	>	= > <			
	> のI を量 系统常数 Control Parameters Control Parameters	文本 大本 L. Taud Rat Th. Date B	() () () () () () () () () ()	5000	0 0	11 12	9fi	>	* · · ·			
	▶	文本 大本 Th. David Ref Th. David R	rer 1000 Bit: Bit: Bit: Nore	S000	0 0	11 12 】 见诊	Bir III.	>	= > < <			
	● <u> </u> のII を量 系统常数 Control Parameters Control Parameter	文本 文本 TTL Danie 5 TTL Parkty 5 TTL Stope 8	w 1000 bit 850 bit 1000 bit 1000	a 属性 2000	0 0	11 12) 见 诊	ff		1 × ×			
	>	文本 文本 R. Baut Re TL Pault Re TL Paulty B TL Sape B	1 (1000 1 (10	9. 属性 2000	0 0	11 12) 见 诊1	ff		× ×			
	≥ ,	文本 文本 The Bourt Ref The Bourt Ref The Bourt Party The Bourt Party The Bourt Party Send Cyce Clear Inpo	sit lion in 100 in 180 in 100 in 100 in 100 in 100 in 100 in 100	2000 2000	0 0 1 4 4 倍息 4	11 12)见诊	Ðf		× ×	> 信息		
	≥	文本 文本 The Bourt Ren The Dane S The Stoppe Send Cyce a Clear Inpu	ter Tool	2000 Coro	0 0 1 4 4 6 8 8 4	11 12)型 诊1	Ðf 📃	>	2 2 C	→ 信息		

EIP Offline Clear input:选择 NoClear 时,网关与 EtherNet/IP 主站断开连接时 PN 主站设备的 Input 的数值保持最新的数值不变,选择 Clear 时则会把 PN 主站 Input 的数值清零。

其它参数不能修改,用户不必关心。

8、设置网关 PORT 口的 IP

				新州州	阁	山剛	各规图	1 设备社	見図	选项	- [E
de 1	8	设备机	t苋								-	1
	^		模块		机架	話機	1.地址	0 地址	14	▼ 目录		
	A 1		* SG-GATEWAY		0	0	11		E ^	(技术)	641 64T	X
	R. Ser		► 305		D	0 X1	11		S	Cal inte		
15			Control_1		0	1	2		C "	· Con allia		3
4			input/Output16	5 Byte_1	0	2	318	2.17	1_	The state		15
			input4 Byte_1		0	3	1922		I	THE MUSH	DRAME.	12
	- 1		Output2 Byte_1		0	4		1819				B
	7				0	5						
					0	6						1
					٥	7						
					0	8						18
					D	9						
					D	10						F
	1000				D	11						
	~				0	12			Y	1		ľ
III >	1	<							>			h
G-GATEWAY [EtherNet/li	P Stave]			1 定 展付	1	口信息	(1) 图论	M	1			L
常規 10 変量 3	系统常数	文本	1	Control -								I
棠规	01+1	THALL							^	1		l
PROFINET 接口 [X1]	era	MANEAE -			_	_			- 4			I.
常規	接	口连接到	l.									L
以太网維杜												I.
• 高级远项	_		子问:	PNIE_1					*			I.
撤口遗顷				-	S.Maily	开网						J.
▼ 买时设定												I.
同期間	+ IP1	体议										J.
X1 P1 [X1 P1]	1 100											L
X1 P2 [X1 P2]			IP 她址:	192.16	8.1	. 101	1			400		1
标识与维护			Z [[[編2]]	755 75	E 20	5 0				* In 25	15	1
			11,386-3	233 . 23	-					设备:	12	
				○ 同時間	日森炭	프는 IO IS	(#123				100	
				一使用路	語							
			墨由器地址	0 0								
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9、当 PN 主站与网关通讯时总报 IO 超时时,可以调大看门狗时间(根据实际情况做调整,一般不需要调整),看门狗时间=更新时间 x 接受的更新周期(不带 IO 数据),下图中看门狗的时间是 1920ms。

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10、设置设备名称,组态页面和网关实际名称要一样

如果实际设备名称和组态名称不同需要修改到相同,否则无法组态成功。

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11、下载程序即可

3.3 200smart 配置 PN 端的实例

1、打开 STEP 7-MicroWIN SMART,导入 GSD 文件

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SDML-V2.4SG-RNI04AUT-F150/20230620.xml 2023007-0611:00.43 正常 SDML-V2.4SG-RADIO(h750)/20230620.xml 2023-07-0611:00.43 正常 SDML-V2.4SG-RN-T1L(h750)/20230620.xml 2023-07-071019:23 正常 SDML-V2.4SG-RN-T1L(h750)/20230620.xml 2023-07-071019:23 正常 SDML-V2.4SG-RN-T0[h] 2023-07-071019:23 正常 SDML-V2.4SG-RN-T0[h] 2023-07-071019:20 正常 SDML-V2.4-SG-RN-T0[h] 2023-09-1109:09:40 正常 SDML-V2.4-SG-RN-M0[h]/750]-20220105.xml 2023-09-1109:09:47 正常 SDML-V2.4-SG-RN-M0[h]/750]-20220105.xml 2023-1009:13:00:24 正常 SDML-V2.4-SG-RN-M0[h]/750]-20220105.xml 2023-1009:13:00:24 正常	GSDML-V2 4-SG-ADIO-02230520.xml SD2307/1500-42 正常 GSDML-V2 4-SG-ADIO-02230520.xml 2023-07-00 11:9.23 正常 GSDML-V2 4-SG-ADIO-02210519.xml 2023-07-01 19:23 正常 GSDML-V2 4-SG-PN-TD[M)-20230220.xml 2023-07-01 19:23 正常 GSDML-V2 4-SG-PN-DP[M)-20230220.xml 2023-07-01 19:29 正常 GSDML-V2 4-SG-PN-DP[M)-20230423.xml 2023-09-11 09:09-40 正常 GSDML-V2 4-SG-PN-MB[h750]-20220105.xml 2023-09-11 09:09-40 正常 GSDML-V2 4-SG-PN-MB[h750]-20220105.xml 2023-09-11 09:09-47 正常 GSDML-V2 4-SG-PN-MD[M-750]-20220105.xml 2023-09-11 09:17.27 正常 GSDML-V2 4-SG-PN-MB[h750]-20220105.xml 2023-09-11 09:17.27 正常 GSDML-V2 4-SG-PN-MB[h750]-20220105.xml 2023-09-11 09:17.27 正常 GSDML-V2 4-SG-PN-MB[h120220105.xml 2023-10:09:13:08:24 正常 GSDML-V2 4-SG-PN-MB[h120220105.xml 2023-10:09:10:09:12:08 正常	日 GSDML-V2.456-ADI0(h750)-20230620.xml 202307-06 11:00.43 正常 11 GSDML-V2.456-ADI0(h750)-20230620.xml 2023-07-07 10:19:23 正常 11 GSDML-V2.456-FN-TDL(h750)-20230620.xml 2023-07-07 10:19:23 正常 12 GSDML-V2.456-FN-TDL(h750)-20230622.xml 2023-07-07 10:19:23 正常 12 GSDML-V2.456-FN-DPIM)-20230622.xml 2023-08-03 13:57.06 正常 13 GSDML-V2.4-56-FN-DPIM)-20220105.xml 2023-09-11 09:09.40 正常 14 GSDML-V2.4-07-FNIMM(h750)-20220105.xml 2023-09-11 09:09.40 正常 15 GSDML-V2.4-07-FNIMM(h750)-20220105.xml 2023-09-11 09:09.47 正常 15 GSDML-V2.4-07-FNIMM(h750)-20220105.xml 2023-09-11 09:19.77 正常	GSDML-V2.4:5G-ADI0[h750]:20230620.xml 2023-07-011:00.43 正常 GSDML-V2.4:5G-ADI0[h750]:20230620.xml 2023-07-07101:9.23 正常 GSDML-V2.4:5G-PN-TTL[h750]:20230202.xml 2023-07-07101:9.23 正常 GSDML-V2.4:5G-PN-TTL[h750]:20230202.xml 2023-07-07101:9.23 正常 GSDML-V2.4:5G-PN-DP[M]:20230423.xml 2023-09-0131:357.06 正常 GSDML-V2.4:4:0FNMM[h750]:20220105.xml 2023-09-111:99:94:0 正常 GSDML-V2.4:0FNMM[h750]:20220105.xml 2023-09-111:99:94:7 正常 GSDML-V2.4:0FNMM[h750]:20220105.xml 2023-09-111:99:94:7 正常 GSDML-V2.4:0FNMM[h750]:20220105.xml 2023-09-111:99:94:7 正常 GSDML-V2.4:0FNMM[h750]:20220105.xml 2023-09-111:99:19:7.7 正常 GSDML-V2.4:0FNMM[h750]:20220105.xml 2023-09-101:91:7.27 正常 GSDML-V2.4:PSS-FN-MDD_4:20230003.xml 2023-10:09:13:08:24 正常	GSDML-V2 4-SG-ADIO(h/750)-20230620.xml SD2307/01:01.42 E GSDML-V2 4-SG-ADIO(h/750)-20230620.xml 2023-07-00 11:02.33 正常 GSDML-V2 4-SG-ADIO-20210519.xml 2023-07-01 19:23 正常 GSDML-V2 4-SG-FN-FDP(M)-20230222.xml 2023-07-01 19:20 正常 GSDML-V2 4-SG-FN-FDP(M)-20230022.xml 2023-07-01 19:20 正常 GSDML-V2 4-SG-FN-FDP(M)-20230022.xml 2023-07-01 19:20 正常 GSDML-V2 4-SG-FN-FDP(M)-20220105.xml 2023-09-11 09:09-40 正常 GSDML-V2 4-SG-FN-MDD(-20220105.xml 2023-09-11 09:09-47 正常	GSDML-V2 4-SG-PN-DD[M-750)-20220052.sml GSDML-V2 4-SG-PN-DD[M-20220622.sml GSDML-V2 4-SG-PN-DD[M-20220622.sml GSDML-V2 4-SG-PN-DD[M-20220022.sml GSDML-V2 4-SG-PN-DD[M-20220022.sml GSDML-V2 4-SG-PN-DD[M-20220105.sml 2023-09-03 13:57:06 正常 GSDML-V2 4-SG-PN-DD[M-20220105.sml 2023-09-10 30:99-47 正常 GSDML-V2 4-SG-PN-MD[M-20220105.sml 2023-09-11 09:17.27 正常 GSDML-V2 4-SG-PN-MD[M-20220105.sml 2023-10-09 13:08:24 正常
SDML-V2.4-56-PN-T0[h750]-202010519.sml 2023-07-08 11/0433 正常 SDML-V2.23-S6.4DI0-20210519.sml 2023-07-07 10:19:23 正常 SDML-V2.4-S6-PN-T1[h750]-20230202.sml 2023-07-19 14:02:02 正常 SDML-V2.4-S6-PN-DP[M]-20230423.sml 2023-08-03 13:57:06 正常 SDML-V2.4-S6-PN-DP[M]-20230423.sml 2023-09-11 09:09-40 正常 SDML-V2.4-S6-PN-M6[h750]-20220105.sml 2023-09-11 09:09-47 正常 SDML-V2.4-S6-PN-M6[h750]-20220105.sml 2023-09-11 09:09-47 正常 SDML-V2.4-S6-PN-M6[h750]-20220105.sml 2023-09-11 09:09-47 正常 SDML-V2.4-S6-PN-M6[h750]-20220105.sml 2023-09-11 09:09-47 正常 SDML-V2.4-S6-PN-M6[h750]-20220105.sml 2023-09-11 09:17.27 正常 SDML-V2.4-S6-PN-M6[h750]-20220105.sml 2023-10-09 13:08:24 正常	GSDML/V2.33SG-4DI0-20210519.xml 2023/07-06 11:00:43 正常 GSDML/V2.33SG-4DI0-20210519.xml 2023/07-07 10:19:23 正常 GSDML/V2.4SG-FN-T1_[h750]-20230202.xml 2023/07-07 10:19:23 正常 GSDML/V2.4SG-FN-T0_[h750]-20230202.xml 2023/07-07 10:19:23 正常 GSDML/V2.4SG-FN-DP[M)-20230423.xml 2023/08:01 13:57:06 正常 GSDML/V2.4SG-FN-M0[h750]-20220105.xml 2023/09:11 09:09.40 正常 GSDML/V2.4.bCFNMS(h750)-20220105.xml 2023/09:11 09:09.47 正常 GSDML/V2.4.bCFNMS(h750)-20220105.xml 2023/09:11 09:09.47 正常 GSDML/V2.4.bCFNMS(h750)-20220105.xml 2023/09:11 09:09.47 正常 GSDML/V2.4.bCFNMS(h750)-20220105.xml 2023/09:11 09:09:47 正常 GSDML/V2.4.bCFNMS(h750)-20220105.xml 2023/09:11 09:09:47 正常 GSDML/V2.4.5G-FN-MDD_4-20230803.xml 2023/09:11 09:17:07 正常 GSDML/V2.4.5G-FN-MDD_4-20230803.xml 2023/10:09:16:07:16 正常 GSDML/V2.4.5G-FN-MDD_4-20230803.xml 2023/10:09:16:07:16 正常	000mL/02.4%GMU(0) 00726260000m 2023/07-07 10:19:23 正常 0 GSDML/02.4%GPN-TL[h)750/20230222ml 2023/07-07 10:19:23 正常 1 GSDML/02.4%GPN-TL[h)750/20230222ml 2023/07-07 14:02:02 正常 2 GSDML-V2.4%GPN-TD[M]20230423 ml 2023/08:03 13:57:05 正常 3 GSDML-V2.4%PNMM[h750]-20220105.ml 2023/09:11 09:09:40 正常 4 GSDML-V2.4%PNMM[h750]-20220105.ml 2023/09:11 09:09:47 正常 5 GSDML-V2.4%PNMM[h750]-20220105.ml 2023/09:11 09:09:47 正常	GSDML-V2.4/SG-PN-T0[h/S0/20201051/m] 2023/07-07 10:19:23 正常 GSDML-V2.3/SG-ADIO-2021051/sml 2023/07-07 10:19:23 正常 GSDML-V2.4/SG-PN-T0[h/S0/20220202 xml 2023/07-07 10:19:23 正常 GSDML-V2.4/SG-PN-T0[h/S0/20220102 xml 2023/07-07 10:19:24 正常 GSDML-V2.4/SG-PN-DP[M]-20230423 xml 2023/09-01 109:09:40 正常 GSDML-V2.4/SG-PN-MM[h/F50]-20220105 xml 2023/09-01 109:09:47 正常 GSDML-V2.4/SG-PN-MD[h/S0/20220105 xml 2023/09-01 109:09:47 正常 GSDML-V2.4/SG-PN-MD[h/S0/20220105 xml 2023/09-01 109:09:47 正常 GSDML-V2.4/SG-PN-MD[h/S0/20220105 xml 2023/09-01 109:109:17.27 正常 GSDML-V2.4/SG-PN-MD[h/S0/2020003.xml 2023/10-09 11:09:12.02.24 正常 GSDML-V2.4/SG-PN-MD[h/S0/2020005.xml 2023/10-09 11:09:12.02.24 正常	GSDML-V2.45G-FN-FNGND0/0210519.xml GSDML-V2.33SG-ADIO-02210519.xml GSDML-V2.45G-FN-FTL[hr/S0]-20220022.xml GSDML-V2.45G-FN-FD[M]-20220022.xml GSDML-V2.45G-FN-FD[M]-20220105.xml GSDML-V2.45G-FN-FNMI[hr/S0]-20220105.xml GSDML-V2.45G-FN-HND[hr/S0]-20220105.xml GSDML-V2.4FNA FN-HN[hr/S0]-20220105.xml GSDML-V2.4FNA FN-HN[hr/S0]-20220105.x	GSDML-V2:345G-ADIO-20210519.ml 2023/07-071019-23 正常 GSDML-V2:345G-ADIO-20210519.ml 2023/07-071019-23 正常 GSDML-V2:45G-FN-T1L[h750]-20230202.ml 2023/07-071914.02.02 正常 GSDML-V2:45G-FN-DP[M]-20230423.ml 2023/07-07109.00 正常 GSDML-V2:45G-FN-DP[M]-20230423.ml 2023/07-01109.09.40 正常 GSDML-V2:45/G-FN-MP[M]/FS0]-20220105.ml 2023/09-1109.09.40 正常 GSDML-V2:45/G-FN-MP[M]/FS0]-20220105.ml 2023/09-1109.09.47 正常 GSDML-V2:45/G-FN-MP[M]/FS0]-20220105.ml 2023/09-1109.09.47 正常 GSDML-V2:45/G-FN-MP[M]/FS0]-20220105.ml 2023/09-1109.017.27 正常 GSDML-V2:45/G-FN-MP[M]/FS0]-20220105.ml 2023/0109.1109.17.27 正常 GSDML-V2:4FAS/FN-MP[D_4:20220105.ml 2023/0109.1109.17.27 正常 GSDML-V2:4FAS/FN-MB[M]-20220105.ml 2023/10.09.1109.17.27 正常
CONL-V2.4-SG-PN-TTL[h750]-20230202.xml 2023-07-19-14-02-02 正常 SDML-V2.4-SG-PN-TD[M]-20230423.xml 2023-09-03-31-357.06 正常 SDML-V2.4-SG-PN-DP[M]-20230423.xml 2023-09-11 09:09-40 正常 SDML-V2.4-SG-PN-M0[h750]-20220105.xml 2023-09-11 09:09-47 正常 SDML-V2.4-SG-PN-M0[h750]-20220105.xml 2023-10-09:13:00:24 正常	BSDML V/2 4:56 FN-TTL[h/750]-20220202 xml 202207-19 14:02:02 正常 GSDML V/2 4:56 FN-TTL[h/750]-20220102 xml 2022:07-19 14:02:02 正常 GSDML V/2 4:56 FN-DP[M]-20220102 xml 2022:08:03 13:57:06 正常 GSDML V/2 4:56 FN-TTL[h/750]-20220105 xml 2023:09:11 09:09:40 正常 GSDML V/2 4:56 FN-MD[h/750]-20220105 xml 2023:09:11 09:09:47 正常 GSDML V/2 4:56 FN-MD[h/750]-20220105 xml 2023:09:11 09:17:27 正常 GSDML V/2 4:56 FN-MD[h/750]-20220105 xml 2023:09:11 09:17:27 正常 GSDML V/2 4:56 FN-MD[h/750]-20220105 xml 2022:10:09:12:08:24 正常 GSDML V/2 4:56 FN-MD[h/20220105 xml 2022:10:09:12:08:28 正常 GSDML V/2 4:56 FN-MD[h/20220105 xml 2022:10:09:10:57:88 正常	BSDML-V2 4-SG-FN-TTL(h750)-202302.02 xml 2023-07-07-01-123 正常 6SDML-V2 4-SG-FN-TTL(h750)-202302.02 xml 2023-07-07-01-123 正常 6SDML-V2 4-SG-FN-DP[M]-20230423 xml 2023-09-03-13-57-06 正常 6SDML-V2 4-J0-FNMM[h750]-20220105 xml 2023-09-11-09-09-40 正常 6SDML-V2 4-J0-FNMM[h750]-20220105 xml 2023-09-11-09-09-47 正常 5 6SDML-V2 4-J0-FNMM[h750]-20220105 xml 2023-09-11-09-09-47 正常 5 6SDML-V2 4-J0-FNMM[h750]-20220105 xml 2023-09-11-09-09-47 正常	GSDML-V2.4-SG-PN-TTL[h/70]-20230202.xml 2023-07-19-14/02.02 正常 GSDML-V2.4-SG-PN-TTL[h/70]-20230423.xml 2023-09-01-19-14/02.02 正常 GSDML-V2.4-SG-PN-DP[M]-20230423.xml 2023-09-01-10-50-002 正常 GSDML-V2.4-A0-PNMM[h/750]-20220105.xml 2023-09-01-09-00 正常 GSDML-V2.4-A0-PNMS[h/750]-20220105.xml 2023-09-01-09-07 正常 GSDML-V2.4-A0-PNMS[h/750]-20220105.xml 2023-09-01-09-17 正常 GSDML-V2.4-SG-PN-MDD_4-20230803.xml 2023-01-09-13-08-24 正常 GSDML-V2.4-SG-PN-MDD[M-2020005.xml 2023-01-09-13-08-24 正常	GSDML-V2 4-SG-PN-TTL[h750]-20230202 xml 2023-07-19 14:02:02 正常 GSDML-V2 4-SG-PN-DP[M]-20230202 xml 2023-07-19 14:02:02 正常 GSDML-V2 4-SG-PN-DP[M]-20230202 xml 2023-08-00 13:57:06 正常 GSDML-V2 4-SG-PN-DP[M]-20230202 xml 2023-09-11 09:09-40 正常 GSDML-V2 4-SG-PN-M0[h750]-20220105 xml 2023-09-11 09:09-47 正常 GSDML-V2 4-SG-PN-M0[h750]-20220105 xml 2023-09-11 09:17.27 正常 GSDML-V2 4-SG-PN-M0[h_4 20230803 xml 2023-10:09:17.27 正常 GSDML-V2 4-PS-PN-M0[h_2 20220105 xml 2023-10:09:17.27 正常 GSDML-V2 4-PS-PN-M0[h12:00220105 xml 2023-10:09:17:09:17:27 正常	GSDML-V2 4SG-PN-TTL[h750]-20230202 xml 2023-07-07 10 13 25 正常 GSDML-V2 4SG-PN-DP[M)-20230223 xml 2023-07-07 10 13 25 正常 GSDML-V2 4SG-PN-DP[M)-20230423 xml 2023-09-01 13 57:06 正常 GSDML-V2 4SG-PN-DP[M)-20230423 xml 2023-09-11 09:09-40 正常 GSDML-V2 4AV-PNMM[h750]-20220105 xml 2023-09-11 09:09-47 正常 GSDML-V2 4AV-PNMS[h750]-20220105 xml 2023-09-11 09:09-47 正常 GSDML-V2 4SG-PN-MDD_4-20230803 xml 2023-09-11 09:17.27 正常 GSDML-V2 4SG-PN-MDD_4-20230803 xml 2023-10-09 13:08:24 正常 GSDML-V2 4PAS-PN-MBIM-20220105 xml 2023-11.09:11:05:28 正常
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CONTRACTOR AND A CONTRACT	■ GERMI V2 & SE DN EDRE 10221201 m J	G50HL/2 4Pa5 PU-MBIM-20220105 will 202311.09.11:05.28 工業			
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2、在 Profinet 上添加 PLC 和网关

12		••• ΤΕ ····ΩΕΑ ···ΩΕΗ ····ΩΠ····Ρ·····Π····Π·················
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上图点"下一步",添加网关,设备名要和实际设备名一样,IP 地址要和 PLC 同一网段。

PROFENET 网络 管控制器(CPU SR28) pic200am 日〇 Effective, (P Skove5W2.0 日〇 Effective, (P Skove5W2.0 Effective, (P Skove5W2.0 Effective, (P Skove5W2.0 Effective, (P Skove5W2.0 Effective, (P Skove5W2.0 Effective, (P Skove5W2.0 Effective, (P Skove5W	n0 0-sc 1ggateres	(EterNet/P 1	In the second se	200xxxxt 2.168.1.100		B 0/0 5140 B 0/0 5140 B 0/0 5130 B 0/0 5150 B 0/0 5160
	() 商款考测表 2004	「此 PROFINE」 网络当新地态的 日本地名加克克・	Sinita -			El Matterial El Matterial Hi IX Gaterial El PASAE El PASAE El Tarjo Sange El Si Graterial El Electroly El Electroly Electroly Elsand Electroly
	设备号	東型	经营业	P设置	Pitti	a Diversion Patron
	2	Ethenet(IP SavesW2.0/0	sp-pateway	用户收置	192, 198, 1, 191	THER. CO.D. TT TO
	4					ma:
	5					GSDML-V2.4-9G-PV-83P(5)-20231201.xmj
	7					270
	20					050HL-12.4-56-PH-EP(5)-20231201.wel
	- Teo 1	100	- (A			Ether/iet/P Sav/s

3、给网关添加输入输出,假如配置软件上设置的 O->T(对应 200smart 的 Input)和 T->O(对应 200smart 的 Output)分别是 20 和 18,那么 200smart 上 Input 总字节数要为20、Output 总字节数要为 18,可以给插槽如下:

MicRu SR30_pic200smart) twofiet/IP Security Co. 5-an-material	.#a	i * 18	ita" i	接關未为该设备添加	複块。						Literation Saves/12.0.0 日 主爆块
EtherNet/IF Slave(I)	Long.		探袖	(1)注意	子细决杂	1240	PM 起始地址	输入长展。	PHQ 经趋地	新出长程 (E (\$12
Cantrol(1)	2		-		10	0.32768				1	Control
3nput/Cutput16 Dyte(2)	3	-	-		3(1.P1	0.32769					Input/Culput is byte
D dow 12 Bute (4)	4.00				10 F2	0.32770	1000				Input/Output/12 Byte
ž	5	1	1	Control	1912	1	120	1		1000	Input/Output/4 Byte
	.6	-	2	Input/Output/IS Eyte		2	129	16 ::	128	16	- Input/Output8 Byte
	7	1	3	Input 4 Bute		3	145	4			- Input 36 Byte
	8	1	4	Output2 Bute		4			144	2	- Input2 Byte
	9	1	-			10					Disputal Bote
	10	1	-			6				-	InputS Date
	31	1	-			7					Output 15 Byte
	121	10	-								Output2 Byte
	113.0	-	-			9				-	Output32 Byte
	141	-	-			10					Output 4 Byte
	125	1	-			11				-	2.00 to
	16	1	-		-	12		-			1.084
	12.0	1				13					
	10000	1	-		-	1.8					
	10000	1				18			-	-	10次考:
	100.00	1				10					
	23	1	-			10					
	165		-			10					1.00
	1000	-	-			18	-	-	-		(23)
	22	-	-			19					8 bytes D (overall conststency) -
	100	-	-		11						SubmoduleEdentMumber (0x0001 - AP1/0x00
		\$10] .	water (n 19 (m)	4,00	_ »	测试物	3 2	3	MCP3negy

如上图所示 PN 端输入占了 20 个字节 PNI129-148,输出占了 18 个字节 PNQ128-145, EtherNet/IP 主站模块的输入(Input)映射在 PN 的 PNQ 的起始地 址就是 128,输出映射在 PN 的 PNI 的起始地址就是 129。

映射如下:

EIP 主站	PN 主站
Input[017]	PNQ128-QB145
Output[019]	PNI129-148

4、两次点击下一步进入到 Control 模块的配置界面

ROFINET 配置肉导			- 23
(Pijg) @(CRU SR30_pic200emari) hortiet(CP SlaveSW2.0.0 sp.gatevay) Ethertiet(CP Slave(II)) Control(1)	该页印题:图所该都决约每个子模块。 Cantrol		
InputOutputDoByte(2) Input40yte(3) Output2Byte(4) (4)	Central Parameters		
	TTL Band Bate	1000000	
	TTL Data Bit	68e	
	TTL Parity Bit	None	
	TTL Stop Bit	184	
	Sand Spela	1Dee	
	EIF Offline Clear Input	NuCher -	
		ar I pa I	-
(H) F			

EIP Offline Clear input:选择 NoClear 时,网关与 EtherNet/IP 主站断开连接时 200smart 的 PNI 地址中的数值保持最新的数值不变,选择 Clear 时则会把 200smart 的 PNI 地址中的数值清零。

其它参数不能修改,用户不必关心。

5、一直下一步最后选择生成

provide processing processing (Conservery Enterticity States V2, 0.1-3-pgstevery Control (1) Type(70 Upto (1) Byte(2) Type(70 Upto (1) Byte(2) Type(70 Upto (1) Byte(2) Control Enter(3) States	1pgate-ray(EfferNat/IP	5	51	pk200xxwf 1921681.100				
	*#25							
	设装库马	163	读景名	dgie .	15种,干15种	旧典型	武位推拉	结束地位
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	2.11	0	N) galeway	30	0_32768	1	+	÷.
	3 1	0	ag gateway	30 P1	0_32769	-	+	#
	181117	0	13 Sayahi	×9 P2	0_32778	÷	+	
	5 1	0	13-galarway	Control	1.1	输入	1.28	129
	6 1	0	sg-galarvay	Input/Output16 Byte	2,1	输入	129	144
	2001	0	ag-galaviay	Input/Gutput16 Eyte	2.1	输出	128	143
	A	0	sg-galeway	Inpubl Byte	2,1	输入	145	148
	3 1	0	ig-galeway	Okapul 2 Byte	101	動出	144	145

6、点击查找 PROFINET 设备可以搜索网关,如果网关实际名称和组态名称不一样可以点击编辑并修改,下面两个图中的设备名称要一致。

 予約ADDBUS M [Chillows/Advancements/Decktop の目的ない のPU SR20 見代いた 見たいた の目のない の目のない の目のない の目ののでの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの の目のの ののの のの のの のの ののの ののの のの ののの のの のの ののののの のののののののの	MANN X SEC MALA
10 日本 10 日	重规PROFINET设备
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○····································	RA

日 日 日 日 日 日 日 日 日 日 日 日 日 日	pk300mmt	R D R ST-200 SWRT
使用 使用	132.183.1.100 (2.94mmg)や500()*703 こ会会未列2.7 代 FMOFINIT 网络当前相志的所向设备・ 可是在朝鮮な会社文明在版名書・	B. OPU 98:20 B. Takin Sange Bit: JB. Takin
本画 新婚 中心 新婚 中心 PRD 中国 第 中画 編集	夜景地 高型	I

7、点击下载程序即可

四、EtherNet/IP 端的配置实例及通讯测试

4.1 CodeSYS 的配置实例

硬件环境:

PN 主站(1200PLC 等)的 IP: 192.168.1.100;

网关 PORT 口的 IP: 192.168.1.101;

网关 EtherNet/IP 口的 IP: 192.168.1.37;

电脑的 IP: 192.168.1.99;

硬件接线: 网关 PORT1 口接 PN 主站(1200PLC 等), 网关 PORT2 口接交换机, 网关 EIP1 口接交换机, 电脑接交换机, 电脑上运行 CodeSYS 和PN 主站配 套的软件(博图等)。

本实例中已经按照3.2 或3.3 章节配置了PN 端。

本实例中配置软件的配置如下图所示:

1	察察设备	朝取金	1000 (N	献置 设	a 🗌	重合设备
	序号	중목 GTEX KIP TTL	IP地社 192.168.0	MAC (1)	41 69:68:47:39	图件版本 1.7
(9193	ā‡:	(#37	•	<i>∓</i> τ>:#:	不交換	•
1-20		15		· · · · · · · · · · · · · · · · · · ·	192, 165, 1, 1	
		10		同美物社:	100 100 1 1	
0->1		20		子同擴码:	255 255 255 0	
10344	9161	136 100 1	210(4.*)	A JOLE !		

注意:软件上的 T-->O 对应 EtherNet/IP 主站的输入、O-->T 对应 EtherNet/IP 主站的输出,EtherNet/IP 主站配套软件上的 O-->T 和 T-->O 的大小要与此处的数 值一致。

从我司官网 www.tj-sange.com 下载好 EDS 文件。

①打开 CodeSYS 软件,先安装 EDS 文件。





					Edit Landiana
Location	System Repository (C:\ProgramData\C	ODESYS\Device	s)	~	Edit Locations
			·		
Installed [Device Descriptions				
String for	a full text search		Vendor <all vendors=""></all>	~	Install
Name	1	Vendor Ve	rsion Description		Uninstal
+- 🗊 N	Miscellaneous				Export.
1 - 🗃 F	Fieldbuses				
@- 🔜 t	-MI devices				
+ 🗃 F	PLCs				
· 0 :	SoftMotion drives				
安装制	完成之后可以存	车如下位置]找到.		
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					lie ease on a second
cation	System Repository			~	Edit Locations
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②新建 CodeSYS 工程。

Categories		Templates
Lit Pr	oraries ojects	Empty project HMI project Standard project w
A project c	ontaining one device, on	application, and an empty implementation for PLC_PRG
Name	Untitled2	2.
	C:\Users\SGWMH\Do	cuments\codesvs view

注意下图中Device 的选项:

Standard	Project		×
	You are abou objects withi - One program - A program I - A cyclic tasl - A reference	It to create a new standard project. This wizard will create the following n this project: mmable device as specified below PLC_PRG in the language specified below k which calls PLC_PRG to the newest version of the Standard library currently installed.	5
	Device	CODESYS Control Win V3 x64 (3S - Smart Software Solutions GmbH)	~
	PLC_PRG in	Structured Text (ST)	~
		OK Cancel	

③按如下步骤添加 EtherNet/IP 设备,注意每一步都不能省

添加 Ethernet 适配器

🗏 📋 Untitled2		
Device (CODESYS Con D	Cut Copy Paste Delete Refactoring	•
MainT Carlor P	Properties Add Object Add Folder	•
	Add Device	
	Update Device	

ame Ethernet					
Action Append device Insert device 	O Plug device O	Update device			
String for a full text search	Vendor	<all vendors=""></all>			1
Name Fieldbuses Fieldbuse	Vendor		Version	Description	
		and a second state of the second s	The second second		-

添加 EtherNet/IP Scanner

evices	-	, 4	×			
Untitled2			•			
🖹 👔 Device (CODESYS Control W	in V3 x64)					
🖙 🗐 PLC Logic						
😑 🔘 Application						
Library Manager	r -					
PLC_PRG (PRG)						
😑 🧱 Task Configurat	ion					
🖻 🥩 MainTask (I	EC-Tasks)					
PLC_PR	G					
Ethernet (Ethernet)	L V	~ .				
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tring for a full text search	Ve	ndor	<all vendors=""></all>	-		~
Name	Vend	or		V	ersion	Description
E 💮 Fieldbuses						
😑 👄 EtherNet/IP						
🔅 👄 EtherNet/IP Local Adapter						
😑 👄 EtherNet/IP Scanner						

添加 EtherNet/IP 适配器



thing for a fe	d text search	Vendor	- All condenes	
Name	buses	Vendor	<ali vendors=""></ali>	Version
\$-	EtherNet/IP Remote Adapter	35 - S	mart Software Solutions GmbH	4.1.0.0
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< Group by (Group by (Nam Vend Cate Vers Orde Desc Adap	Category Display all versions (for e: Serial to EtherNet/IP Gateway Gories: EtherNet/IP Gateway Gories: EtherNet/IP Remote Adapter ion: Major Revision = 16 # 1, Minor Revision er Number: ENetIP Gateway cription: EtherNet/IP Target imported for ter 1 v1.2(20230419).eds Device: Serial	Rodo Allen- r experts o ion = 16# from EDS P I to EtherN	vell Automation Bradley inly) Display outdated vers 1 le: Sange Elec EIP let/IP Gateway	Major Revision=16# Major Revision=16# Sions

④启动 CodeSYS gateway 和 PLC,要确保任务栏右下角网关和 PLC 图标是



- Dever (CODES/S Caneed We 3:64)	Communication SetSings	The Design of Lothers	y + Decide +			
BACtapy Cherritory Cherritory Cherritory Replacitory Replacitory Replacitory Replacitory Cherritory Cherritory	Application Darkup and Restore Price Log PLC Sattings					
倒 Ethernet P Scare - 図 Harriek (EC-Tasks) - 別 n.c.ma	PLC Bell	Select Device	Scalast		×	
= ∰ theres(Jheres) + ∰ theres, p. Jorres (Derite ∰ Send, b, Shenes, P. Jor	Access Rights Symbol Rights Licensed Software Heltits BC Objects Task Deployment Software	 A. Description Description 	[9608 8182]	Senice Hene: Cation: L Beven 10/3P IP-Address Norbut 2017	Scan Hadoonk	
	Besilpoors Application POLI Location Insta					• 1/2mm (2.12)
3 705 Z (mm			ter by Target ID		Deter Deter	

输入任意的用户名和密码并点击"确定":

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	Seriel_to_EtherNet_IP_Gateway Control of therNet_IP_Gateway	
Device x Etheritet_P_Scarner Communication Settings Applications Backup and Restore Files Log PLC Settings PLC Shell Users and Groups Access Rights Symbol Rights Licensed Software Metrics EEC Objects	Seriel_to_EtherNet_IP_Gateway Codesway Device	
	Ethernet Serial to EtherNet JP Gateway Geteway • Device • Gateway • Device • Gateway • Device • Gateway Gateway Device Gateway Device Name: localitost Parte 1217 Device Address: 0000.9265 Target ID: 0000.9265 Target Type: +976 Target Type: +976 Target Vendori 25 • Smott Software Solutions GmbH Target Vension 3.5.18.0	
	Ethernet Seriel_to_EtherNet_IP_Gateway Geteway • Device • Image: Control of the series is control of the se	

⑤给 Ethernet 适配器选择对应网卡

确保运行 CodeSys 软件的电脑的 IP 跟网关的 IP 在同一个网段,下图中的 192.168.1.99 就是电脑的 IP。

a di manuti					
B Device [connected] (CODESYS Control Win V3 x64)	General		Network interface		Browse
PLC Lopic Application D. Lorary Manager D. PLC_PRG (PRG)	Log Status		IP address Subnet mask Default gateway	192 . 168 . 0 . 1 255 . 255 . 255 . 0 0 . 0 . 0 . 0	
Task Configuration Selection DetPScamer10Task (IEC-Tasks) Ethertiet_P_Scamer.IOCycle SelectionsTask (IEC-Tasks)	Ethernet Device 1/0 M Ethernet Device IEC 0 Information	apping bjects	🗌 Adjustoperatin	g system settings	
(일) Enternet, JP Schnier, Service, yoe 응 MainTask (EC-Tasks) 의 PLC PRG	Network Adapters				
Chenter (P-Stather (Uthenheit/P Scamer) Tianin_Sarge_EIP_Adapter1 (Tianin Sarge t	Ethernet I Reals	e) PCIe III	Family Controller 19	1 1000 11 99	
	IP aldress	192 . 168	1 . 99		
	Subnet wask	255 . 255	255 0		
	Befault gatesay	192 . 168	1 . 1 F-00-71		
	RN. 100ress	DC.89.82.0	1.00.11		
					000

⑥配置 EtherNet/IP 的 IO (网关),根据 IO 的实际 IP 填写 (要与我司配置 软件上的 IP 地址一致)

Untitled2 Untitled2 Device (CODESYS Control Win V3 x64)	General	Address Setting	s	
DI PLC Logic Declication	Connections	1P address	192 . 18	68 . 1 . 37
Library Manager	Assemblies	-		
PLC_PRG (PRG) Task Configuration	User-Defined Parameters	Electronic Keyin	g	
BUPScanner10Task (IEC-Tasks) BitHerbiet IP, Scanner (ICCvrla	Log	Compatibili	ty check	
S ENIPScannerServiceTask (IEC-Tasks)	EtherNet/IP 1/0 Mapping	Vendor ID	1694	Check match
면) EtherNet_IP_Scanner.ServiceCycle	FiharNat/ID IEC Objects	Device type	12	Check match
AinTask (IEC-Tasks)	Lineireega and objects	Product code	200	Check match
- @ PLC_PRG	Status	Major revision	1	Check match
EtherNet IP Scanner (EtherNet/IP Scanner)	Information	Minor revision	2	Check match
TianJin_Sange_EIP_Adapter 1 (TianJin Sange EI			02	14

设置 Connection 的参数和大小

General	connection Name	RPI (ms)	O>T Size (Bytes)	T>O Size (Bytes
Connections	1. Exlusive Owner	30	500	500
Assemblies				
User-Defined Parameters				
Log				
EtherNet/IP I/O Mapping				
EtherNet/IP IEC Objects				
Status				
Status Information				
Status				

(T-->O)和(O-->T)的大小要与我司配置软件上的 T-->O 和 O-->T 的大小一致, 本实例中下图中的 O->T 应该设置成20、T->O 应该设置成 18:

Seneral Parameters				OK
Connection Path	20 04 24 97 2C 96 2C 64			Cance
Trigger type	Cyclic	RPI (ms)	30	
Transport type	Exclusive owner	Timeout multiplier	4 ~	
icanner to Target (Ou	tput)	Target to Scanner (Inc	out)	
0>T size (bytes)	17	T>0 size (bytes)	50	
Proxy config size (b	ytes) 0			
Target config size (t	oytes) 10			
Connection type	Point to Point	Connection type	Point to Point 🗸 🗸	
Connection Priority	Scheduled ~	Connection priority	Scheduled \checkmark	
Fixed/Variable	Fixed	Fixed/Variable	Fixed	
Transfer format	32-bit run/idle	Transfer format	Pure data	
Inhibit time (ms)	0	Inhibit time (ms)	0 🗘	
Heartbeat multiplier	1 2			

⑥设置一下 I/O 映射,不设置这一步无法监控和写数据

S Tanla, Sage, 12, Adaptert a S Deco S theoret			
Kanend Find, Fiber, Muse all	inter the	 — Add IS for it: Channel	
Connections + Connections - Co	the real	and parts	
Liter Dathast Personatore			
log			
Ethemist (# 11 Piecorg			
Sense Section 201			
Managar			
⑦编译下载程序 ● Untitled2.project* - CODESYS File Edit View Project Bu	ild ×	Online Debug Tools Window Help	plic.
Untitled2.project* - CODESYS	0100.013		
File Edit View Project Build	On	ine Debug Tools Window Help	
BADALBAX	OS.	Login A	lt+F8
	08	Lossit (*	1.59
	1	Ci ci ci ci	ITTO I
levices		Create Boot Application	
a lattled2	1	Download	1
Dender (CODESVS Combel Mar 1/2 - C		Online Change	
Device (CODESTS Control Win V3 X64		Source Download to Connected Device	
■ 目引 PLC Logic			
= O Application	1	Multiple Download	
	and the second s		
Library Manager		Reset Warm	

Aultiple Download)
Please Select the Items to be Downloaded	
1 Move Up 🐥 Move Down	_
Device: Application	
	_
Online Change Options If the application in the project differs from the application already present on the PLC, then behave as follows:	e
Try to perform an online change. If this is not possible, perform a full download	id.
O Force an online change. If this is not possible, cancel the operation.	
O Always perform a full download and release any forced variables.	
If an application is not yet present on the PLC, a full download is always perform	ed.
Additional Operations	
Delete all applications on the PLC which are not part of the project.	
Start all applications after download or online change.	
Keep forced variables.	
OK N Can	cel

⑧在 CodeSys 上监控和设置数据

Dunti	itled2.p	roject*	- CODESYS							
File	Edit	View	Project	Build	On	line	Debug	Tools	Window	Help
1		510	~ X Pa	® X	05	Log	jin		×	
					CŞ.	Log	jout		15	
Devices	;					Cre	ate Boot	Applicatio	n	
- 6	Untitled2	2				Do	wnload			

之后在 I/O Mapping 里面监控和设置数据,所有数据都是字节格式,小端表

TianJin_Sange_EIP_Ada	pter1 🗙 🗑 Device 🛛 🗑 E	themet	EtherNet_IP_Scanner	1		
General	Find	0	Filter Show all			- 💠 Add
Connections	Variable	Mapping	Channel	Address	Туре	Current 1
Assemblies	11 - Np		Input Data	%IB0	BYTE	1
	H 10		Input Assembly_Param1	%IB1	BYTE	3
User-Defined Parameters	÷ 🍬		Input Assembly_Param2	%IB2	BYTE	0
Log	B 🎲		Input Assembly_Param3	%IB3	SYTE	0
	16 Mp		Input Assembly_Param4	%IB4	BYTE	0
EtherNet/IP I/O Mapping	16 · 16		Input Assembly_Param5	%IB5	BYTE	3
	1 · · · · · ·		Input Assembly_Param6	%IB6	BYTE	0
EtherNet/IP IEC Objects	÷ *		Input Assembly_Param7	%IB7	BYTE	0
Status	16 Mp		Input Assembly_Param8	%IB8	SYTE	0
	÷ *•		Input Assembly_Param9	%189	BYTE	3
Information	16 Mg		Input Assembly_Param10	%IB10	BYTE	0
	14 M		1. C. A. A. A. A.		1000	12

设置数据:

	+	Start Stop Single Cycle	F5 Shift+F8 Ctrl+F5	or
CODESYS Control Win V3 CODESYS Control Win V3	3	New Breakpoint New Data Breakpoint		
PLC Logic Application [run] Difference PLC_PRG (PRG)		Edit Breakpoint Toggle Breakpoint Disable Breakpoint Enable Breakpoint	F9	ile ** **
 Itask Configuration Itask Configuration Itask Configuration ENIPScannerIOTask (IEC-Task) EtherNet_IP_Scanner.Service EtherNet_IP_Scanner.Service Itask (IEC-Tasks) PLC_PRG 		Step Over Step Into Step Out Run to Cursor Set Next Statement Show Next Statement	F10 F8 Shift+F10	222222
🖻 🧐 🗊 Ethernet (Ethernet)		Write Values	Ctrl+F7	1

4.1.1 PN 端使用博图 V15 配置的通讯测试

General	Find		Filter Show all			- 4	Add FB for IO C	hanne
Connections	Variable = 🔁 Exlusive Owner	Mapping	Channel	Address	Туре		Current Value	Prep
Assemblies	* *		Input Assembly_Param0	%JB0	BYTE	1		
Contract engineering	* *9		Input Assembly_Param1	%381	BYTE	2		
User-Defined Parameters	4.79		Input Assembly_Param2	%182	BYTE	3		
Log	* *		Input Assembly_Param3	%183	BYTE	4		
100	3.19		Input Assembly_Param4	%184	BYTE	5		
EtherNet/IP I/O Mapping	ii 19		Input Assembly_Param5	%185	BYTE	0	100	
	* *		Input Assembly_Param6	%386	BYTE	0		
EtherNet/IP IEC Objects	4.19		Input Assembly _Param7	%187	BYTE	0		
Status	* *		Input Assembly_Param8	%188	BYTE	0		
1000	* *9		Input Assembly_Param9	%JB9	BYTE	0		
Information	8 M		Input Assembly_Param10	%2810	BYTE	0		
	* *		Input Assembly_Param11	%1811	BYTE	0		
	8.19		Input Assembly Param12	963812	BYTE	0		

General	Find		Filter Show all			- 4	Add FB for 10 C	Channel * Go	18
Connections	Variable	Mapping	Channel	Address	Туре	1	Current Value	Prepared Value	1
	* *		Input Assembly_Param17	%4817	BYTE	0			
Assemblies	a *a		Output Assembly_Param0	%Q80	BITE	6			
NAME OF A DESCRIPTION OF A	8 %		Output Assembly_Param1	%Q81	BYTE	7			
User-Defined Parameters	* *9		Output Assembly _Param2	%Q82	BYTE	8			
las	8 %		Output Assembly _Param3	%Q83	BYTE	9			
	* **		Output Assembly Param4	%Q84	BYTE	10			
EtherNet/IP 1/0 Mapping	1. 10		Output Assembly_Param5	%Q85	BYTE	0	- A		
	+ **		Output Assembly_Param6	15Q86	BYTE	0			
EtherNet/IP IEC Objects	6.70		Output Assembly_Param7	%Q87	BYTE	0			
Quarture .	a "a		Output Assembly_Paranil	16Q88	BYTE	0			
	a *a		Output Assembly_Param9	%Q89	BYTE	0			
Information	a *a		Output Assembly_Param 10	16Q810	BITTE	0			
	+ **		Output Assembly_Param 11	%Q511	BYTE	0			
	a "ø		Output Assembly_Param12	%Q812	BITE	0			
	* *		Output Assembly_Param 13	%Q813	BYTE	0			
	+ **		Output Assembly_Param14	%Q814	BITE	0			
	+ **		Output Assembly_Param15	%Q815	BYTE	0			
	× "ø		Output Assembly_Param 16	%Q816	BYTE	0			
	4 Ma		Const Areashin Daram 17	86/0817	RVTE	'n			

B P. Ma	LM > 未分组的设备 + 1	SU-GATEW	WY State	erNette S	dave!	- * *	×	• .1	· nucetion	U 1214C AC/DC/Ry]	• 监控与强制表	 监控表_1 	
		2 Kil	化田	▲ 网络ł	2日 日	设备视图							
设备制	窥							92	vê lik Lu	スたの一つ			
	1012	41.10	15.48	1.1410	0.4641	(ee)		1	名称	地址	昆尔格式	油祝信	総改進
	· COURT	0		110.0	y nere	Etheritett		1.		5/83	无符号十进制	4	
	+ KI	0	0.81			LO CATE	1	1		8 1/04	无符号+进制	+ 7	
	Control 3	0				Control		2		5/85	无符号十进制		
	Interd Torderer 16 Rider 1		1.0	8.18	2.12	basi dittur				5/05	无符号十进制	2	
	invoid Bas 1		- C	10.99	#1117	Insuit Pute	-	8.1		%87	无符号十进制	10	
	Output? Bate 1		1	19.44	18.18	Dartau#7		1					
	outron ofin_1		-		10	comerca		1		%Q82	无符号十进制	1	1
								1		54083	无符号十进制	3	2
1			-					A		5404	无符号十进制	3	3
1			1					50		%Q85	无符号十进制	4	4
			1.					13		54046	无符号十法制	1	5
			-					12		-1516-			
			11										
			10										
			12										
			14										
		0	10										
<			-		14)		1					

4.1.2 PN 端使用 200smart 配置的通讯测试

General	Find		Filter Show all				Add FB for IO C	hanne
Connections	Variable	Mapping	Channel	Address	Туре		Current Value	Prep
Assemblies	* *		Input Assembly_Param0	%JB0	BYTE	1		
	* *9		Input Assembly_Param1	%381	BYTE	2		
User-Defined Parameters	4.79		Input Assembly_Param2	%182	BYTE	3		
Loo	* *		Input Assembly_Param3	%IB3	BYTE	4		
100	3.19		Input Assembly_Param4	%184	BYTE	5		
EtherNet/IP I/O Mapping	* *9		Input Assembly_Param5	%185	BYTE	0		
a successive second	* *		Input Assembly_Param6	%386	BYTE	0		
EtherNet/IP IEC Objects	4.19		Input Assembly _Param7	%187	BYTE	0		
Status	* *		Input Assembly_Param8	%188	BYTE	0		
1000 C	* *9		Input Assembly_Param9	%JB9	BYTE	0		
Information	× *9		Input Assembly_Param10	%2810	BYTE	0		
	* *>		Input Assembly_Param11	%1811	BYTE	0		
	8.19		Input Assembly Param12	%JB12	BYTE	0		

General	Find		Filter Show all				Add FB for 10 0	hannel * Go	18
Connections	Variable	Mapping	Channel	Address	Туре	1	Current Value	Prepared Value	1
	* *		Input Assembly_Param17	%4817	BYTE	0			
Assemblies	s.*e		Output Assembly_Param0	%Q80	BITE	6			
and press many	8 *9		Output Assembly_Param1	%Q81	BYTE	7			
User-Defined Parameters	8.59		Output Assembly _Param2	%Q82	BYTE	8			
los	8.50		Output Assembly Param3	%Q83	BYTE	9			
	* **		Output Assembly _Param4	%Q84	BYTE	10			
EtherNet/IP 1/0 Mapping	8.50		Output Assembly_Param5	%Q85	BYTE	0	10. I.		
	+ **		Output Assembly_Param6	%Q86	BYTE	0			
EtherNet/IP IEC Objects	5.50		Output Assembly_Param7	%Q87	BYTE	0			
Ratus	a *e		Output Assembly_Parantil	%Q88	BYTE	0			
	a *o		Output Assembly_Param9	%Q89	BYTE	0			
Information	s *o		Output Assembly_Param 10	%Q810	BITE	0			
	+ **		Output Assembly_Param 11	%Q811	BYTE	0			
	a *e		Output Assembly_Param12	%Q812	BITE	0			
	+ **		Output Assembly_Param13	%Q813	BYTE	0			
	* **		Output Assembly_Param14	%Q814	BITE	0			
	+ **		Output Assembly_Param15	%Q815	BYTE	0			
	· * * •		Output Assembly_Param16	%Q816	BYTE	0			
	10 Ma		Outruit Areanble: Daram 17	860917	RALE	n			



状态图表									
	地址	格式	当前值	新值					
1	IB129	无符号	6						
2	IB130	无符号	7						
3	IB131	无符号	8						
4	IB132	无符号	9						
5	IB133	无符号	10						
6	QB128	无符号	1						
7	QB129	无符号	2						
8	QB130	无符号	3						
9	QB131	无符号	4						
10	QB132	无符号	5						

4.2 欧姆龙 Sysmac Studio 的配置实例

硬件环境:

PN 主站(1200PLC 等)的 IP: 192.168.1.100;

网关 PORT 口的 IP: 192.168.1.101;

网关 EtherNet/IP 口的 IP: 192.168.1.37;

电脑的 IP: 192.168.1.99;

欧姆龙 PLC 的 IP: 192.168.1.200。

硬件接线: 网关 PORT1 口接 PN 主站(1200PLC 等), 网关 PORT2 口接交换机, 网关 EIP1 口接欧姆龙 PLC, 网关 EIP2 口接交换机, 电脑接交换机, 电脑上运行 PN 主站配套软件和 Sysmac Studio。

本实例中已经按照3.2 或3.3 章节配置了PN 端。

本实例中配置软件的配置如下图所示:

选择阿卡:	192 168 1	210(本 +	17地址:	192.168.1.37	
0->1:	20		子同權詞:	255 255 255	D
1->0:	18		阿美地址:	192.168.1.1	
保持清荣:	保持	•	字节交换:	不交換	•
序号	歴号	IP地址	MACIE	tt.	固件版本
H 1	GTER RIP TUL	192, 168, 0	37 80.00	69 6 F : 47 : 39	1.7
被索设备	朝取後	11111	献置 後	R	重用设备
设备利率,展于3	日編到199设备				

注意:软件上的 T-->O 对应 EtherNet/IP 主站的输入、O-->T 对应 EtherNet/IP 主站的输出,EtherNet/IP 主站配套软件上的 O-->T 和 T-->O 的大小要与此处的数 值一致。

从我司官网 www.tj-sange.com 下载好 EDS 文件。

①打开 Sysmac Studio 软件,新建工程,选择 PLC,版本,创建。

🗱 Sysma: Studio (64bit)				
· 良佐	1 1 1 1 1 1	10074		
	工程名称	STRING .		
	গৰা	10WNH		
	States 1			
and a month				
414 4 直接到最新问	NE	SAIN		1
版本控制				
ell. 限本控制测现器(V)	in this set	li .		
件可以	#2	11110		1
日存刊(0)	108 (C	NX592	902401	1.1
35373.030	16 4			

②启用内存,建立全局变量。

analize new_consider_o oys	nac statio (onon)					
文件(F) 编编(E) 视图(V) 插入(I)	工程(P) 控制器(C) 【	则以(S) 工具(T)	窗口(W) 帮助	(H)		
X 40 40 10 0 40	国むへぶ	53 E #	A 🛛 🕅	A 25, 23	10 16 16 O	2 2
多板图浏览器 🔹 🕈		en x				
new_Controller_0 🔻		1系列由开始	的内友沿艇			
▼ 配置和设置			131-11-166.000			
W EtherCAT	自用		蟶 ;	大小学数	保留	
▶ ⑤ CPU/扩展机架	- Ci	CIC	6144		未保留的	
+ VO Heat		WF	512		未保留的	
		HAR NO.	512		(1960)	
	S	DN	4096		保留的	
L 部 PS還EtherNet/IP調L						i .
し腰 内置いの设置						i .
L III 选项板设置						i .
● 内存设置						i .
▶ 舎 运动控制设置						
e' Cam数据设置						

I 新建工程 - new Controller 0 - Sysmac Studio (64bit)

建立全局变量 IN OUT,下图中 IN 的大小要与我司配置软件上的 T-->O 的大小一致,OUT 的大小要与我司配置软件上的 O-->T 的大小一致:

副新建工程 - new_Controller_0 - Syur	mac Studio (64bit)								
交件(F) 编稿(E) 报题(V) 插入(I)	工程(P) 装制器(C)	(830(5) 工具(7) 金门(W) 和前(4)							
Xeessca	® # < ;	8 TR R A R R	A 26 10 10	5 6 0	9 2	H (1 Q TL		
\$12.55333 · V	2%2# ×	1742 B							
new_Controller_0 T									
▼ 配置和印度	名称	数据关型	松柏蘭	19 6 686	6630	聚量	网络公开	注释	1
21 EtherCAT	IN .	ARRAY[1.50] OF BYTE		%W100			城入		
► TSh CPU/BT展机器	OUT	ARRAY[1.17] OF BYTE		%W150	D		載出		17
₽ VO RAT									
▼ □ 控制器设置									
A BE STORAGE OF									
1 12 25154710-00									
し 第 内存設置									
▶ 中 近动短期间面									
er Care数据设置									
▶ 事件设置				11. A.					
• 任务设置				S. .					
V E POUs									
▼ 16 12/9									
🛡 🗄 Programil									
L @ SectionD									
1. 例 功昭									
したの間に									
1 ST BOOKSETT									
全部交融									
▶ th 任明									

③设置内置 EtherNet/IP,下图中的 IP 设置成 192.168.1.200。



④注册全局变量

M建工程 - new_Controller_0 - Sysmac Studio (64bit)



dio (64bit)



的建筑中国		al Halakehesi	SDGE Ellerte		Perfect and the later	- × Stand		_	
II - 1	□- 标签组								
(Contraction of the local sector)	▶ 总制信息								
	● 時金融 時差距/最大 0	/32 后送/最	to / 256				2 1811	DA I	93
		NERISH.	1 (0)248	1 2013-01 1	大小1000 (nexs (
		■ 标签出主册G						- 0	×
		SEP ennes	285		新 美型	大小		51	- 25
			5 <u>¥</u>	ABOANT ST	NE BVTE	10			
			φ.	(addar().50)	or of it.				
		C 0	រា	ARRAY[1_17]	XF BYTE	17			
								<u> </u>	-112
		西中非法的项目	1044500D					EE KA	
NM 全局受	鼎 🗰 內存電	印刷 翻 中国	EtherNel/IPFE	ii29 ElberNel	APROM FILM	内圍EtherNet/I	P读口设意 庙 ×	AND COLOR	
п.	II- ŧ	透组							
-	-								
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		标签组织	588 I	位选择	50	1 大小位	() I SR(19) D	控制器状态	
	IN			1	50	0	Auto	A Red	
					1000 B	1916			

⑤添加 IO。

安裝 EDS 文件。在"工具箱"空白地方右击选择"显示 EDS 库"

	- 工具箱		
	目标设备		
_			
		添加连提(A)	
导出		₩(D)	
		L 是示EDS庫(L)	
		贴贴(P)	

安装 EDS 文件,安装完如下图所示

ED ED	S库 一	×
- V	endor	
	Allen-Bradley	
	OMRON Corporation	
	Omron Adept Technologies, Inc.	
÷	Omron Microscan Systems, Inc.	
	TianJin Sange Elec	

在"工具箱"选择添加设备

-	工具箱
	目标设备
	安量·添加目标设备 [字节]

下图中的 IP 是网关 EtherNet/IP 的 IP,本实例中应该设置成 192.168.1.37:





设置 IO 连接,本实例中下图中 IN 的大小应该设置成 18,OUT 的大小应该 设置成 20:

	業 古存現度 計合業	EtherNet/1918	III SE Liber	Network	内囊ithe	rNet/IP28C	1役量 连 × 📆 🖉	ainsi			
11-	• 提 连接										
100	▼连接 连接/最大;2 / 32							31 (n - Taxon -	3538	
0-1-B	目标设备	连接名称	连接//O类型	HEAVIE	1 目标变量	大小序	村 記録受量	大小方	前1 连接关型	RPINE	1 超时值 1
and the second second	192.168.250.37 Tien.lin San	default 001	Exhusive Owner	输入	\$00	50	3N	50	Paint to Paint	50.0	RPI×4
	- and a second second second		Concession of the	新出	150	17	out	17	Point to Point o		
					00 15081						

⑥编译下载。

1	模拟(S	Γ ([具(T)	窗	Q(W)	帮助(H)		_	-	_	-	-	-	-	_	_	_
X	69	5	63 100	A		R		A	*	63	8	4	9	0	Q 2	P). L	j C
	##	内存	四 王 王 王 王 王	eiP	内置日	therNet	/IPjj	ii 🗆 i	2置	Ethe	erNet	/IP设f 同	的表		内置Et	herNe	t/IP端	口设置
								, 4	×	控制器	計状 态	1 2000	101101010	00000	1000000		nananan	1955
									1	ERR/	在线 ALM	:	1	92.16 評理	58.250 武).1		
													-99	12.04				

	0-	·····································						_				
	0- <u>18</u>	演播/超大: 2 / 32 日5:20 192.168.25037 Tradin San	sensult_001	は入れる 「離入 「解注」) 태당호텔 100 150	1大小学市 30 17	i ENGRE IN OUT	(大小字句 50 17	I HANGERSON	nuntienti e 1920 Rok	1911) 1 x 16	
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⑦监控变量。

圖 新建工程 - new_Controller_0 - Sysmac	Studio (64bit)
文件(E) 编辑(E) 视圈(V) 插入(I) 工程	(P) 控制器(C) 模拟(S) 工具(D) 登口(W) 帮助(出)
	日へは国際はよう日本のないない。
多視图浏览器 • • • • • • • • • • • • • • • • • • •	全量 的内容EtherNet/IP设备列表 内置EtherNet/IP设备列表 内置EtherNet/IP语
new_Controller_0 V	正計 连接
1 配置和设置	
行行 EtherCAT	▼ 连接
VO Ret	目标设备 连接名称 连接/0类型 (输入/输出) 目标变量
▼ 限 控制器设置	192.168.250.37 TianJin San default_001 Extusive Owner 输入 100
C L部 使作设置	130 Hold Hold Hold Hold Hold Hold Hold Hold
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1 日 先均松设备	传送到控制器 从拉制器传送
役首名称 名称 new Controller 0 ► INSL-50	在結論 作改 注释 数据失型 分配到 ARRAY1.501 0 SW/100
new_Controller_0 > OUT[1.17]	ARRAY[1=17] O %W150
new_controller_0	

之后展开监控变量表可以查看值。

4.2.1 PN 端使用博图 V15 配置的通讯测试

设备名称	名称	- 在线值 -	修改	1
new_Controller_0	IN[150]			
	IN[1]	01		
	IN[2]	03		
	IN[3]	00		
1	IN[4]	00		
	IN[5]	00		
	IN[6]	03		
	IN[7]	00		
	IN[8]	00		
	IN[9]	00		

new_Controller_0	▼ OUT[117]			
	OUT[1]	05	5	
	OUT[2]	AA	AA	
	OUT[3]	0A	A	
	OUT[4]	00		
	OUT[5]	00		
	OUT[6]	00		
	OUT[7]	00		

		一番拍打	6632	m 1956 t	118	1 成份代码						
设备推	(Q						9	# # W	11. 9. 9. 13	an at.		
-	(6)2	41.59	12.48	1.1014	in tele	2.0	-	名称	拔妝	留示描述	這來道	帮款值
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	• 81		0.81			SG-GATE	12		1/64	十六进制	16#44	
	Correct 1					Control	100		165	十六进制	16#04	
	isout/Deputie Ree 1		2	8.18	2.12	multicut	4		1/86	十六进制	16400	
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							12		14Q85	十六进制	16403	16#03
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			10				12		%Q87	十六进制	16403	16#05
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			12									
			15									
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			18									
101		-	110		- los	14		NH.				1

4.2.2 PN 端使用 200smart 配置的通讯测试

设备名称	名称	在线值	修改	1
new_Controller_0	V IN[150]			
	IN[1]	01		
	IN[2]	03		
	IN[3]	00		
	IN[4]	00		
	IN[5]	00		
	IN[6]	03		
	IN[7]	00		
	IN[8]	00		
	IN[9]	00		

new_Controller_0	▼ OUT[117]			
	OUT[1]	05	5	
	OUT[2]	AA	AA	
	OUT[3]	0A	A	
	OUT[4]	00		
	OUT[5]	00		
	OUT[6]	00		
	OUT[7]	00		

Instant Field Half Elig Chru SH30 Jok 2000enanti Chruntest IP Sines W/2.4.0.5 Cantol (1) Cantol (1	iggalena(EllerNet/IP		3	pk-200xwat 132:1601.100				
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	3 1	0	10-549-68	XIPI	8 32769		-	
	4 1	0	togalevas	X1 P2	0 32770		1	
	5 1	0	1D galaveau	Control	11	ω λ	128	129
	4 T	0	10-galavia	Input/Output/16 Byte	2.1	输入	129	144
	2 1	D	10-galaviag	Input/Output16 Byte	2,1	输出	128	143
	8	0	10-datevel	input4 Byte	2,1	% λ	145	148
	3 1	0	10-Galavia	Dutput2 Byle	4.1	96-33	144	145

状态图表				
1 - 1	- 🗊 🖩 🖓 🖉 🗂 🤋	6 🛗 🕅 🖂 🗢 👻		
	地址	格式	当前值	
1	IB129	十六进制	16#05	
2	IB130	十六进制	16#AA	1
3	IB131	十六进制	16#0A	- I).
4	IB132	十六进制	16#00	
5	IB133	十六进制	16#00	8
6	QB128	十六进制	16#01	
7	QB129	十六进制	16#03	
8	QB130	十六进制	16#00	
9	QB131	十六进制	16#00	1
10	QB132	十六进制	16#00	1
11	QB133	十六进制	16#03	0

4.5 施耐德 Machine Expert 的配置实例

硬件环境:

PN 主站(1200PLC 等)的 IP: 192.168.1.100;

网关 PORT 口的 IP: 192.168.1.101;

网关 EtherNet/IP 口的 IP: 192.168.1.37;

电脑的 IP: 192.168.1.99;

施耐德 PLC 的 IP: 192.168.1.200。

硬件接线: 网关 PORT1 口接 PN 主站(1200PLC 等), 网关 PORT2 口接交换机, 网关 EIP1 口接施耐德 PLC, 网关 EIP2 口接交换机, 电脑接交换机, 电脑上 运行 PN 主站配套软件和 Machine Expert。

本实例中已经按照3.2 或3.3 章节配置了PN 端。

本实例中配置软件的配置如下图所示:

选择网卡	. (192 168 1 1	210 (本 +	17地址:	192.168.1.37	
0->T:		20		子同擴码:	255 255 255 0	
T-30:		18		阿美地址:	192.168.1.1	
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序 1+	e ge Gter	EIF TTL	IP地社 192, 168, 0	84.CH	41 69 68 47:39	固件版本 1.7
根索	2#	親取愛書	184)	和 进设	R	重启设备
设备列表。	显示扫描到的	合备				

注意:软件上的 T-->O 对应 EtherNet/IP 主站的输入、O-->T 对应 EtherNet/IP 主站的输出,EtherNet/IP 主站配套软件上的 O-->T 和 T-->O 的大小要与此处的数 值一致。

从我司官网 www.tj-sange.com 下载好 EDS 文件。

①打开 Machine Expert 软件,先安装 EDS 文件。



ocation	User			~	Edit Locations
	(C:\ProgramData\Ecos	truxure Machine Exp	ert\V2.0\User Devices)		
installed D	evice Descriptions				Instal

安装完成之后可以在如下位置找到:

cation	User				~	Edit Locations
	(C:\ProgramData\EcoStruxure N	Aachine Exper	t\V2.0\User D	levices)		
stalled D	eyice Descriptions					
String for	a full text search	Vendor	TianJin San	ge Elec	~	Install
Name		Vend	or	Version		Qninstal

②新建 Machine Expert 工程。

Ø Machine Expert Logic Builder - Version 2.0.3.1 (x64)

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🖄 New Project					×
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	Controller:		Version	5	
5 ⁿ c Library	TM241CE24R (Schneider Electric)	~	5.1.9.	14	~
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From Example	MyController				
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③按如下步骤添加 EtherNet/IP 设备

添加 EtherNet/IP Manager

EIP.project* - Machine Expert Logic Builder - Version 2.0.3.1 (x64)

Eile	Edit	⊻iew	Project	ETEST	Build	<u>O</u> nline	Debug	Tools	Window	Help
1		10 0	美陶日	B× M	15 🐴	26 1	*I *I *I	1 1	• 👔 🖽	Application [MyControl

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DI (Digital Inputs)			
- 🙀 DQ (Digital Outputs)			
- LTI Counters (Counters)			
Cartridge_1 (Cartridge)			
IO_Bus (IO bus - TM3)			
COM_Bus (COM bus)			
Ethernet_1 (Ethernet Network)		D	
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Serial_Line_2 (Serial line)			
Modbus_Manager (Modbus Manager)			

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	-1	Cartridge_1	(Cartridge)						
		IO_Bus (IO	ous - TM3)						
	- 6	COM_Bus (C	OM bus)						
		Ethernet_1	(Ethernet Net	twork)					
		Industria	al_Ethernet_I	Manager (In	dustrial Eth	nernet Mana	ager)		
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	14	Machine	_Expert_Net	work_Manag	ger (Machir	e Expert-N	etwork Manag	er)	
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添加 EtherNet/IP 适配器

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ction							
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④填写网关 EtherNet/IP 接口的IP 地址,根据实际 IP 地址填写(本实例应该

填写成 192.168.1.37)

	Window Help II- ① III Application [MyController: PLC Logic] • ☞ ☞ □ ↓ ■ ↓ Ⅱ
Devices tree v 0	X / TianJin_Sange_EIP_Adapter1 x
Select All	Target settings Connections User Parameters EtherNet()IP I/O Mapping Ether Address Settings Concernance configuration)
= 💮 EP = 🖬 MyController (TM241CE24R)	O IP Address by DHCP DEVICE_1
🕼 D2 (Digital Inputs) 📢 D2 (Digital Outputs)	Fixed 3P Address 192 . 168 . 31 . 74
-LT Counters (Counters) - FLi Pube_Generators (Pube Generators)	Electronic Kaying
TO_BUS (IO BUS - TM3)	Check Vendor Code 1694 Check Product Code 200
 Ethernet_1 (Ethernet Network) Industrial Ethernet Manager (Industrial Ethernet Manager) 	Check Major Revision 1 Check Minar Revision 2
Tanàn, Sanga, ElP, Adapter 1 (Tianàn Sanga ElP Adapter 1) = 4P Senal_Line_1 (Senal Ine)	Restore default values
Machine_Expert_Network_Manager (Machine Expert-Network Manager) Øf Senal_Line_2 (Senal line) Modbus_Manager (Modbus Manager)	Protocol on the feldbus Protocol used by the device The is the protocol used between the logic controller and the device.

填写施耐德 PLC 的 IP 地址、子网掩码、 网关,本实例中应该设置成

192.168.1.200.



设置 Connection 的参数和大小, (T->O)和(O->T)长度应该与我司配套软件上

的(T-->O)和(O-->T)的大小一致,本实例中 O->T 设置成 20, T->O 设置成 18。

Devices liver	* 3 X 🗍 Tanlo, Garge, IP, Adapteri x 📋 Indunis (Starnst, Nanaper 📓 Etwenst, i 👹 HyContoler
Select 43	Target sattings Connectance Like Parameters # Otherhet/SF LIO Plapping # Otherhet/SF LIC Objects Status () Information
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	Configuration bara 3 Helin Tree (m) 8 Indext Tree (m) 8 Indext Tree (m) 8 Persenters 5 Configuration 5 Configuration 0 Configuration 0 Configuration 0 Configuration 0 Configuration 0 Configuration 0
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⑤编译程序。 Ø EP-project* - Machine Expert Logic Builder Ble Edit View Project ETEST Buil ◎ ● ■ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	- Version 2.0.3.1 (x64) d Qnine Debug Toojs Window Help Application (MyController: PLC Logic) • • • • • • • • • • • • • • • • • • •
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⑤编译程序。 ○EPproject* - Machine Expert Logic Builder Ble Edit View Project ETESI Builder Ble Edit View Project ETESI Builder Deckes Ree Select Al ● SP ● State and watter (Tate and Compared and	- Version 2.0.3.1 (x64) d Qnline Debug Tools Window Help Application (MyController: PLC Logic) · 역 역 • • • (1 - 1) · · · · · · · · · · · · · · · · · ·

Download

Online Chapge

ters 🗯 EtherNet/IP I/O Mapping

PPI O-->T (m PPI T-->O (

Select All

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	I	f you agree	to follow these	instructions, pre		
Devi	ce User Logon					×
ß	You are current password of an	y not authorize user account v	ed to perform this which has got the s	operation on the dev sufficient rights.	rice. Please enter t	he name and
	Device name	MyControlle	er (TM241CE24R)			
	Device address					
1	User name	User				
1	Password	•••				
1	Operation: Object:	View "Device"		2	ок	Cancel
	Machine 8	Expert Logic	Builder		2	<
	2	Are you sure @0080F40C9	you want to log 17F2' with addre	gin to the node 'T/ ss '0000.904B.000' 是(Y)	M241CE24R 5'? 否(N)	
			L			2000 T
	Machine Ex	pert Logic B	luilder			×
	Wa the rep	arning: An appli ere is no matchi placed.	cation 'Application' i ng compile informat	s currently in RUN mode on, this existing applica	e on the PLC. As ation needs to be	
	Ci	ck 'Yes' to down	load the latest code	or 'No' to abort. <u>N</u> o	Details	

⑥点击"小三角"运行系统。

Ø EP project* - Machine Expert Logic I EN Edit View Project ETEST Image: State Sta	builder - Vension El Build (Qn) Al 12 45 15	2.0.3.1 (ine Da	xsid) bug Tooks Wind 11 11 15 113+ ⊡"	low <u>H</u> elp 23 Applic	ation (MyController: PLC	Logicj • 🗐 <table-cell></table-cell>	Paras	n (2 (+)	아 1월 (종) (종) (아	ne .*
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* (g ar		Evene .	Controller	Projectilian	Dr. Aldress	- Tiedlardert	Feldfure	Trojectauthor	PR.Foralos	
- 🗇 💼 HyController (connected) (TH	241(2244)	10	CONSTS Cost.				DESITOP-0,787038		V3. 5. 16. 80	
G D Date travel	02200000000000000000000000000000000000	.10	TH241CH248	1117	192.165.3	1. 15 02h 05+ 18s	TREADCREAR	307	V5.1.9.35	
(atuqué) (atuqué) (atuqué)										

indenine Expert Logic	Dense	
Do you really	want to perform the ope	eration 'Start'?
	星の	否(N)

⑦查看数据

所有数据都是字节格式,小端表示。

Target cettings Connecting Lie	or Darameter	EtherNet/IP I/O Mannin		at ITE IEC Objects Stat	a Information		
Find	ie. Parameter	Filter Show all	- cerein	• It Ac	Id FB for IO Channel	+ Go to Instance	
Variable	Mapping	Channel	Address	Туре	Default Val	Current Value	Prep
		Input Exlusive Owner	%IW11	ARRAY [024] OF W	IORD		
-10		Input Exlusive Owner[0]	%IW11	WORD		16#0301	
-10		Input Exlusive Owner[1]	%IW12	WORD		16#0000	
- 10		Input Exlusive Owner[2]	%IW13	WORD		16#0300	
- 10		Input Exlusive Owner[3]	%IW14	WORD		16#0000	
- 10		Input Exlusive Owner[4]	%IW15	WORD		16#0300	
-19		Input Exlusive Owner[5]	%IW16	WORD		16#0000	
-10		Input Exlusive Owner[6]	%IW17	WORD		16#0300	
-19		Input Exlusive Owner[7]	%IW18	WORD		16#0000	
*		Input Exlusive Owner[8]	%IW19	WORD		16#0300	
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4.3.1 PN 端使用博图 V15 配置的通讯测试

bee • 0 ×	Machine_Expert_Network	Hanager	MyController	Mochus,	Manager 🛗 Ethernet,	1 TianJin San
L	Target settings Connections Us	er Paraneters	# EtherNet/IP I/O Mapping	Etherhiet	/IP IEC Objects Status 🔘	Information
6	Find	1	itter Show all		• 💠 Add FB for	IO Channel ** Go to
p/5H0	Variable	Mapping	Channel	Address	Type	Default Value
🖟 🏙 HyController [connected] (TH241CE	= %	0.00000	Input Falusive Owner	543822	ARRAY ID., 141 OF BYTE	
(Digital Inputs) 10			Input Existive Owner[0]	%8222	EVTE	
(duquo lango) DQ (Digtal Outputs)			Input Exiumie Owner[1]	942823	EVTE	1
GLP Counters (Counters)			Input Falance Owner[2]	943524	EVTE	
G Pulse_Generators (Pulse Generators)	4		Inter & Palasius Owner [15]	4,3825	EVTE	
G Carbidge_1 (Carbidge)	- 19		Innat Falsave Owner[4]	14,18,36	EVTE	
O To Bus (IO bus - TM3)			Invest Exhause Change [52]	9,3857	RVTE	
G 🔄 COM_Bus (COM bus)			Innut Existine Owner[6]	6,3238	RYTE	0
- 😳 🧱 Ethemet_1 (Ethemet Network)			Input Exhibite Owner[7]	943829	RYTE	3
= 🙃 🗊 Industrial_Ethernet_Manager (Indu			Input Extense Ouner[8]	5,25.20	EVTE	0
Tian3n_Sange_EP_Adapter1			Innut Exhance Owner[0]	54831	EV'TE	
Gel Serial Line_1 (Serial Ine)			Inter & Palazza Oscar [10]	843837	BUTE.	
G 🗃 Nachine_Expert_Network_Manage			Invest Falsance Change [11]	4,2811	EV/TE	
 Gel Serial Line_2 (Serial line) 			Inter & Fall store (homer [17])	0.0034	EVTE	0
😚 🗒 Modbus_Manager (Modbus Manage			Intel Existing Conter[12]	ALC: N	EVTE:	6
			Inst Educe Owner[14]	N.1016	BYTE	
			Inter Educate Owner [14]	84857	DITE.	
			Inca Educate Overei [10]	1000.07	BVTE	
			Inch Extense Owner(12)	100000	and and a second	
			where commute conserted	7462.09	. ET I E	
						0.52710.00
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		1.20				
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	Bus Cycle Options Bus cycle task User parent	bus cycle set	wg -			

日本・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	roller: PLC Logic] • 0) 00 🕴 🕞 💼 (3 🖓 🖓 🗐 🖓 🔶
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* 4 X	Hachine_Expert_Net	work_Manager	MyController	Modbus_	Manager 🛛 🧱 Ethernet	1 🗍 TianJie	Sange
	Target settings Connections	User Paraneters	EtherNet/IP I/O Mapping	Etherive	t/SP IEC Objects Status 🔾 1	nformation	
4	Find		Filter Show all		 Add FB for I 	O Channel	Ge to In
p19900	Variable	Mapping	Channel	Address	Type	Default Value	4
MyController [connected] (TH241CE	- **		Input Exlusive Owner[28]	162650	BYTE		0
G (Digital Inputs)	- 10		Input Exlusive Owner[29]	%3851	BYTE		0
🖸 📢 DQ (Digital Outputs)	*		Input Exlusive Owner[30]	%/B52	BYTE		0
Gun Counters (Counters)	*		Input Exlusive Owner[31]	%853	BYTE		0
G TL Pulse_Generators (Pulse Generators)	- 10		Input Exlusive Owner[32]	%854	BYTE		0
Gartridge_1 (Cartridge)	-10		Input Exlusive Owner[33]	%855	6Y7E		0
0 12 10_Bus (10 bus - TM3)	- 4		Input Edusive Owner[34]	16856	BYTE		0
O D COM_BLS (COM bLS)	- *o		Output Exlusive Owner	%Q//2	ARRAY [09] OF WORD		1
= O Ethernet_1 (Ethernet Network)			Output Exhaine Owner[0]	%QW2	WORD		1
a 😳 📑 Industrial_Ethernet_Manager (Ind	**		Output Extusive Owner[1]	%QW3	WORD		2
TianJin_Sange_EIP_Adapter1			Output Exlusive Owner[2]	%Q///4	WORD		3
Serial_Line_1 (Serial line)	*0		Output Exhaive Owner[3]	%QW5	WORD		4
G Machine_Expert_Network_Manage	**		Output Extusive Owner[4]	1vQV/6	WORD		5
= 1949 Serial Line_2 (Serial line)			Output Exlusive Owner[5]	%QW7	WORD		8
- G 🗐 Modbus_Manager (Hodbus Manage			Output Eduaive Owner[6]	%2//8	WORD		7
	**		Output Estuaive Owner[7]	%QV/9	WORD		8
	- 10		Output Exlusive Owner[8]	%QW10	WORD		0
	**		Output Exturive Owner[9]	%QW11	WORD		30
						1.000	1 Margaret
	Peste new variable Bus Cycle Options Bus cycle task Univ pre	🍫 = Na	p to existing variable				
DTM Connection							
toes tree 🗿 Applications tree 📈 Tools tree	Watch 1				E1	_	

天津滨海新区三格电子科技有限公司	F)
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~	V) (E10	10.20	10.48	1.0044	0.4014	12.25	1	名称	地址	豐示格式	边视镜	
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		0				SC.C.	200		9//6	无符号十进制	2	
٩ 🖂	Connect A	0				Control .	923		14407	天符号十进制	3	
	CONDUCT			1.4		CONDOL	411		5/10	天存号十进制	4	
12	inpuoloupatie Eye	0	1	3.18	4.11	inpsp	100		5/0/11	天容易十进制	3	
	inputs byte_1	0	1	19.22		input.	100		%/W13	天符号十进制	4	
	Contract size_1	0			1819	Outp	(大))		5/0/15	无符号十进制	7	
		0	-				8.0		540/17	无符号十进制		
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		0	15				18		5088	天符号十进制	0	
		0	16				191		5089	王符号十进制	3	
		0	17				20		50810	天存积十进制	0	
		0	18				241		50811	王容易十译制	4	
		0	19				22		50812	王容易十进制	0	
		0	- 20				28		50815	天符長十講会		
		D	- 21				24		50814	王容是十进制	0	
		D	22				28		50815	王尔巴十进制		
		D	23				26		50816	天祥县十进制	0	
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		D	27				30		JEN:	1011 41 100	-	
Y		0	78			M	and the second second					

4.3.2 PN 端使用 200smart 配置的通讯测试

ree - 8 3	Machine_Expert_Netvo	ork_Manager	MyController	Modus,	Manager 🗮 Ethernet	1 TianJin_Sang
	* Target settings Connections 1	Joer Parameters	Etherhiet(P UO Napping	# Etherlie	t/IP IEC Objects Status ()	Information
5	Find	F	iter Show all		- 💠 Add FB for	IO Channel * Go to
19990	Variable	Mapping	Channel	Address	Type	Default Value
MyController [connected] (1142430	x		Induit Palastus Danar	9,2872	ARRAY ID . 341 CH BYTH	
🖸 🚰 CE (Digital Imputz)			Instant Falantum Charam [15]	6,2877	RYTH	
🚭 😫 oq (bigital Outputs)			Insul Education Contract [1]	1.1011	8/75	
Gull Counters (Counters)			Input Extend Overen [1]		1715. 1977	
G TL: Pulse _Generators (Pulse Generators)			Input Excase Owner[1]	10021	BTIC.	
G G Cartridge_1 (Cartridge)			Input Cause Owner[3]	14023	Bric	
0 TE 10 But 00 but - THS			Input Estuaive Overen[4]	9,25.25	BUTE	0
G (II CON Bus (COM bus)			Input Exlusive Owner(5)	94827	ETTE	12
OR Phenet (Phenet Metwork)			Input Exlusive Owner(6)	14928	EVTE	0
The Industrial Pitternet Manager /			Input Exkasive Owner[7]	9,829	BYTE	3
Cill tasks from Dit Advise			Input Exlusive Owner [8]	%830	BYTE	0
Card and the A Manifest	* · · · ·		Input Exlusive Owner [9]	%831	BITE	
o cal	- 10		Input Exlusive Owner[15]	%38.52	HALE .	0
O I Pachere_Expert_Vetwork_Nana			Input Exkerie Owner[11]	%833	8YTE	5
Senal_Line_2 (Senal line)	~		Input Exlusive Owner[12]	%834	BYTE	0
G 🗐 Medbus Manager (Medbus Mana	9 %		Input Exlusive Owner[13]	%835	BYTE	
	- 7		Input Exlusive Owner[14]	54836	BYTE	0
			Input Exturine Owner[15]	%3837	BYTE .	7
			Input Extualize Owner[16]	148.39	BYTE	8
			Input Faluriue Owner[17]	5,23.39	avte	
			CALCULATION CONTRACT		11704040	
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	8					

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MyController [connec	ted) (THRADER)	-	mapping	Contraction of the local sectors of the	Page 100	1994	Creater rate	
(bigtel linguite)				Input Example Owner[20	1 1000	DT/E		u
-5 G (Datel Outsus)				Input Extrave Ovner[25	0 14851	BITE		a .
Gull Counters (Counters)		1.1		Input Estudive Owner[30	1] %4852	BITE		a
GTL: Pulse Generators (P)	due Generators)			Input Exlusive Ovner[33	1] %853	BYTE		α
Gill Cartolar 10 and		- 1		Input Exlusive Owner[32	2] %3854	8175		a.
The state of the state of the				Input Exhaine Owner[33	I] %d855	BYTE		a
Gill CON By FOWhal	0			Input Exlusive Owner[34	f) %856	6775		a
- GE Ethernel 1 Ethernel	Charles and Charles and Charles			Output Edusive Owner	%QW2	ARRAY [39] OF V	VORD	_
- Cold Induction Place	net Manager (Tech	1.1		Output Exlusive Owner§	0] NQW2	WORD		1
G I Taylo Inc	as EN Adapter 1			Output Exhaine Owner[10 MQW3	WORD		3
Cold Sand Line 1 Reitil	pe co posper i			Output Educive Owner[2] %QN4	WORD		3
Cill Harten Const	National Manager			Output Exlusive Owner(R NOWS	WORD		4
Call Card Law 1 Street	Jiesson Manage			Output Exhaive Owner[4 NOVE	WORD		5
- Und Sela The Tiberan	ine;	* 0		Output Extusive Ourser[]	\$] %QW7	WORD		4
Modbus, Manage	er (Hordbus Manage			Output Exturive Owner)	si sugue	WORD		7
				Output Exturive Ovmer[7) %QV9	WORD		8
				Output Exhative Owner [8) %QW10	WORD		9.
				Output Exlusive Owner()	90 %QW11	WORD		30
1010 1010 1010 Sti 20. pk:200enert) entet/1P SieveSW2.8.0 % Etherhet/1P SieveS0	C000-818			pic200cmart 132:168.1.100	_			
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The Topology of the test of test	1993年wayEller 地址S杰 完全序1 1 1 1 1	NerAP :		plc200mwt 132:169:1.100	【清晴_子【清 0.1 0.3759	0.52 E 11	1 <u>社 框束地址</u>	
THE	1938evq(Eller) #USA & 29,84 1. 1 2. 1. 1.	Net.1P		pt:200xwat 132:168:1.100	諸唐 于 1話 0,1 0,32768 0,32768	028 Kat	<u>社 純平絶社</u> 	
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	地址	格式	当前值				
1	IW129	无符号	1				
2	IW131	无符号	2				
3	IW133	无符号	3				
4	IW135	无符号	4				
5	IW137	无符号	5				
6	TW139	无符号	6				
7	IW141	无符号	7				
8	Iw/143	无符号	8				
9	IW145	无符号	9				
10	lw/147	无符号	10				
11	Q8128	无符号	1				
12	QB129	无符号	3				
13	QB130	无符号	B				
14	QB131	无符号	1				
15	QB132	无符号	Ð				
16	QB133	无符号	2				
17	QB134	无符号	0				
18	Q8135	无符号	3				
19	QB136	无符号	0				
20	QB137	无符号	4				
21	QB138	无符号	Ð				
22	QB139	无符号	5				
23	QB140	无符号	0				
24	QB141	无符号	6				
25	Q8142	无符号	0				
26	QB143	无符号	7				
27	QB144	无符号	0				
28	QB145	无符号	8				

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