



EM241 快速入门

必备条件

- 带有STEP 7 Micro/WIN32软件的编程设备,软件版本 3.2 SP1以上。
- PC/PPI 电缆或者 CP5611/5511/5411 和MPI电缆。
- 两个CPU22X,订货号6ES7 xxx-xxXX 21-xXXx 或更新版本
- 两个EM241, 订货号为 6ES7 241-1AA22-0XA0。





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2. 点击Configure CPU-to-CPU...配置该PLC要读/写的数据。

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Configure CPU-to-CPU Data Transfers

<u>如果该PLC需要向远程PLC写数据</u>

1. 选择Only a Data Write。

2. 在此输入要向远程PLC写入的字 节长度。

3. 在此输入数据源的起始地址。

4. 在此输入数据目的地的起始 地址。

5. 在此为这个数据传输定义一个符 号名(符号名将在编程时使用,建 议使用英文并区分大小写)。

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通讯选择

CPU data transfers can be used to transfer V-memory values between two S7-200 PLCs when the local PLC is equipped with an EM 241 modem module. Each data transfer may contain one data read from a remote PLC, and one data write to the same remote PLC. Click 'New Transfer' to configure additional data transfer operations.

Configure CPU-to-CPU Data Transfers

Data Transfers Phone Numbers



S7-200 & Micro/WIN ・配置EM241 ・配置Micro/WIN ・连接

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<u>如果该PLC需要从远程PLC读数据</u>

1. 选择Only a Data Read。

2. 在此输入要从远程PLC读取的 字节长度。

3.在此输入数据目的地的起始 地址。

4. 在此输入数据源的起始地址。

5. 在此为这个数据传输定义一 个符号名(符号名将在编程时 使用,建议使用英文并区分大 小写)。

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通讯选择

S7-200 & S7-200

•配置主叫端

•配置被叫端

S7-200 & Micro/WIN

·配置EM241

•配置Micro/WIN

·连接

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Configure CPU-to-CPU Data Transfers

2

Data Transfers Phone Numbers

CPU data transfers can be used to transfer V-memory values between two S7-200 PLCs when the local PLC is equipped with an EM 241 modem module. Each data transfer may contain one data read from a remote PLC, and one data write to the same remote PLC. Click 'New Transfer' to configure additional data transfer operations.

Data transfer 1 of 1 defined This Message should include: Both a Data Read and a Data Write Define a Data Read Define a Data Write How many words of data should be read from the remote PLC? 10 -

Local PLC Where should the data be stored in the local PLC? WW300 to VW318 Kemote PLC Where should the data be read from in the remote VW400 to VW418

A symbolic name will be defined for this data transfer in your project. Read_Write

Delete Transfer Servious Transfer New Transfer

1. 如果该PLC要对多个不连续的地址进行读/写,点击New Transfer建立相应的数据传输。

2. 要删除当前定义的数据传输, 点击Delete Transfer。

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确定

取消



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1. 点击Phone Numbers。

2. 点击New Phone Numbers输入 要与该PLC通讯的远程PLC所使 用的电话号码。

3. 在此输入对该电话号码的注释。

4. 在此输入电话号码。

5.如果使用这个电话号码的调制解 调器模块(EM241)使用了密码 保护,在此输入正确的密码。

6. 点击Save存储电话号码。

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1. 点击Properties...能够对所有可 共使用的号码进行修改或删除。

通讯选择	EM 241 Modem Module Configuration
S7-200 & S7-200	Messaging You can configure the EM 241 module to send paging messages under program control. To configure messaging, select the option below, then click the 'Configure Messaging' button to define messages and recipients.
• 配置 主叫端	Configure Messaging .
•配置被叫端	CPU-to-CPU Data Transfers
7-200 & Micro/WIN	The EM 241 module supports CPU-to-CPU data transfers to transmit V-memory data between two S7-200 PLCs. With PPI protocol, the EM 241 uses read and write functions as necessary to accomplish communications. To configure CPU-to-CPU transfers, select the option below, then click 'Configure CPU-to-CPU' to configure parameters.
•配置EM241	Configure CPU-to-CPU
•配置Micro/WIN	
•连接	(Prev Next) Cancel
	1 1. 配置好所需要的数据传输后点击Next 〉。

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通讯选择	EM 241 Modern Module Configuration	×
	Callback-	
	Callback allows the EM 241 module to automatically disconnect and dial a predefined phone number after receiving an incoming call from a remote STEP 7-Micro/WIN. To configure callback, select the option below, then click 'Configure Callback'.	
S7-200 & S7-200	Enable callback in this configuration	
•配置主叫端	Configure Callback	
•配置被叫端		
S7-200 & Micro/WIN		
•配置EM241	EM 241	
•配置Micro/WIN		-
•连接	(Prev Next) Cancel	
	1 2	
	1. 回拨功能只有在通过Micro/WIN对PLC进行远程编程时才起作用,在两个	
	PLC通过拨号进行数据传输时无效,且被拨叫的一方不能使用回拨功能。回 按功能的使用金贝S7 200 与Miere/WIN的通识	
	级功能时使用参见57-200与MICEO/WIN的通机 2 点主Next \	
	4. 示[[]] (UAL / 0	
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通讯选择	EM 241 Modern Module Configuration	×
	Callback	
	redefined phone number after receiving an incoming call from a remote STEP 7-Micro/WIN. To configure callback, select the option below, then click	
S7-200 & S7-200	Enable callback in this configuration	
•配置主叫端	Configure Callback	
•配置被叫端		
S7-200 & Micro/WIN		
•配置EM241	EM 241	
•配置Micro/WIN		-
・连接	(Prev Next) Cancel	
	1 2	
	1. 回拨功能只有在通过Micro/WIN对PLC进行远程编程时才起作用,在两个	
	PLC通过扳亏进行致据传输时尤效,且被扳叫的一万个能使用回扳切能。回 拨功能的使用参见S7-200与Micro/WIN的通讯	
	2. 点击Next 〉。	
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通讯选择	••••••••••••••••••••••••••••••••••	2. 1. 2. 2. 3
	Symbol Var Type Data Type Comment	
	TEMP	
	TEMP	
	TEMP	
S7-200 & S7-200	Network 1	_
파고 문 수 미나비	SM0.0 MOD0_CTRL	
• 能直土 州场		
•配置被叫端		
	Network 2	
67-200 & Micro/WIN		
•配置EM241	Network 3	
•配置Micro/WIN		
 •连接		
	Network 4	
	MAIN & SBR_O & INT_O & MODO_CTRL /	

将图中的程序下载到PLC中,重新上电或者PLC由STOP到RUN后,两个PLC便可以正常 通讯了。

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- PC/PPI 电缆或者 CP5611/5511/5411 和MPI电缆。
- 一个标准调制解调器。
- 一个CPU22X,订货号6ES7 xxx-xxXX21-xXXx 或更新版本
- 一个EM241, 订货号为 6ES7 241-1AA22-0XA0。

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通讯选择	EM 241 Modern Module Configuration	×
S7-200 & S7-200 •配置主叫端 •配置被叫端	Image: Constrained by the second state of the provided state of the state of t	
Micro/WIN & S7-200 ・配置EM241 ・配置Micro/WIN ・连接	EM 241	
	1 2 3 4 1. 在此选择模块是否要密码保护,选择密码保护后,任何人要通过EM241连接到该PLC都必须提供密码。 4 2. 在此处填写密码。 3. 在此处填写密码。 3. 在此处确认密码。 4 4. 点击Next>按钮。 Excellence in Automation & Drive	
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通讯选择	EM 241 Modem Module Configuration	×
	Callback Callback allows the EM 241 module to automatically disconnect and dial a predefined phone number after receiving an incoming call from a remote STEP 7-Micro/WIN. To configure callback, select the option below, then click 'Configure Callback'.	
S7-200 & S7-200	Enable callback in this configuration	
·配置主叫端	Configure Callback	
·配置被叫端		
Micro/WIN & S7-200 •配置EM241 •配置Micro/WIN	EM 241	
•连接	<prev next=""> Cancel</prev>	
	1 2 1. 选择Enable callback in this configuration。 2.单击Configure Callback。	_

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1.选择Enable callback to any phone number。

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2.单击确定按钮。

通讯选择	EM 241 Modern Module Configuration	×
S7-200 & S7-200 •配置主叫端 •配置被叫端 Micro/WIN & S7-200 •配置EM241 •配置Micro/WIN	Callback Callback allows the EM 241 module to automatically disconnect and dial a predefined phone number after receiving an incoming call from a remote STEP "Micro/WIM To configure callback, select the option below, then click 'Onfigure Callback'. Image: Callback callback in this configuration. Configure Callback	
・连接	(Prev Next) Cancel	
	1 1. 单击Next〉。 Excellenc Automation & D	e in Prives:
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	E SI	MATIC LAD					
通讯选择	2.5		3 .	4	5 .	6	7
		Symbol	Var Type	Data Type		Comment	
		-	TEMP		/		
	-		TEMP		n		-
			TEMP		7.		-
S7-200 & S7-200		Network 1					<u> </u>
•配置主叫端		SM0.0 M	IOD0_CTRL				
포기 모모 수수 미니 수비							
•配直被叫돏							
		Network 2					
		\rightarrow					
Aicro/WIN & S7-200							
•配置EM241		Network 3					
•配直Micro/WIN		X					
•连接							
		Network 4					
		N					
	▲ ►		чт_о ,∕ модо_с	TRL /	•		

将图中的程序下载到PLC中,重新上电或者将PLC由STOP切换到RUN使所作的配置生效。

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	View Communications
通讯选择	Address
	Address 0 Address: 0
	Program Block Remote:
	PLC Type:
S7-200 & S7-200	Symbol Table
•配置主叫端	Save settings with project
。	Network Parameters
* 凹直 彼 叫 场	Interface: PC/PPI cable(COM 1)
	Protocol: PPI
	Data Block Mode: 11-bit
	Highest Station (HSA): 31
Micro/WIN & S7-200	Interface supports multiple masters
•配置EM241	System Block Transmission Rate
•配置Micro/WIN	Baud Rate: 9.6 kbps
•连接	Cross Reference OK Cancel
	1 2
	1.单击Communication按钮
	2.双击PC/PPI cable(PPI)
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S7-200 & S7-200 •配置主叫端 •配置被叫端

Micro/WIN & S7-200 •配置EM241 •配置Micro/WIN •连接

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Micro/WIN -> FU/FFI cat	le(PPI) 👻
(Standard for Micro/WIN)	
interface Parameter Assignmen	ŧ
PC/PPI cable(PPI)	Properties.
🚰 PC Adapter (PROFIBUS)	
PC internal (local)	
PC/PPI cable(PPI)	Copy
🚰 TCP/IP -> Intel(R) PRO/100) V.▼ Delete
•	
(Assigning Parameters to an P	C/PPI
able for an PPI Network)	
able for an PPI Network) Interfaces	
able for an PPI Network) Interfaces Add/Remove:	Select
able for an PPI Network) -Interfaces Add/Remove:	Select

1.单击Properties...按钮

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X



1.选择Modem所连接的端口

2.选中Modem connection

3.单击OK按钮

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通讯选择

S7-200 & S7-200

·配置主叫端

·配置被叫端

Micro/WIN & S7-200

・配置EM241

•配置Micro/WIN

·连接

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1.双击Connect

通讯选择

S7-200 & S7-200 ●配置主叫端 ●配置被叫端

Micro/WIN & S7-200 •配置EM241 •配置Micro/WIN •连接

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Select a co	onnection to a remote station.
Connect to:	<u> </u>
Phone number: Connect Timeout:	seconds
Connect	Settings Cancel
·	

1.单击Settings...

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通讯选择

S7-200 & S7-200

·配置主叫端

·配置被叫端

Micro/WIN & S7-200

•配置EM241

•配置Micro/WIN

·连接

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		Add
		Settings
Current: Default:	No Current connection No Default connection	Set Iefault
Dialing Fro	m	
	Di	aling Properties

1.单击Add...







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通讯选择

S7-200 & S7-200

·配置主叫端

·配置被叫端

Micro/WIN & S7-200

•配置EM241

•配置Micro/WIN

·连接

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EM241 (Default)	Add
	Remove
	Settings
Current: EM241 Default: EM241	Set Default
Dialing From	
我的位置	 Dialing Properties

1.单击Close



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S7-200 & S7-200 ∙配置主叫端 ∙配置被叫端	Connect to: Phone number: Connect Timeout:
Micro/WIN & S7-200 •配置EM241	
•连接	
	1 1.单击Connect



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通讯选择



•配置Micro/WIN

・连接



1.输入密码100

2.单击OK

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Select a connect	ion to a remote statio	n.
Connect to:	EM241	<u></u>
Phone Conne	Ro.	×
Callback number: Save callback number Placir Call placeo Dialing		
Connected Waiting for incoming messages Password required Password accepted Callback required		Ţ

1.输入回拨号码

2.单击OK

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通讯选择

S7-200 & S7-200

·配置主叫端

·配置被叫端

Micro/WIN & S7-200

·配置EM241

•配置Micro/WIN

·连接

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1.双击 Double-Click

2.单击OK





现在您可以像直接使用PC/PPI电缆一样对PLC进行编程了

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