中心站概述

SINAUT MD720-3 GPRS 系统的中心站为可上到 Internet 上的主机,且在该主机上需安装 SINAUT MICRO SC 软件,通过组态 SINAUT MICRO SC 使其能够与远程站建立 GPRS 的连接。

该中心站即是一个 OPC 服务器(可服务于 OPC 的客户端,为监控系统提供数据);又是一个路由器,它可以转发一远程站发往另一远程站的数据(两远程站的通讯,数据包必须经过给中心站的转发,中心站中有各远程站的地址表)如图 1 所示



从图 1 可以看到要想作为中心站,必须能够上到 Internet 上,所以下面的内容就上网的方式作 详细的描述,在图 1 中标注中心站必须是具有公网固定 IP 地址或是动态域名,这里指的应用在工 业现场上,中心站必须是具有公网固定 IP 地址或是一个动态域名;若为实验可以不用申请公网固 定 IP 地址,用临时获得的公网 IP 地址即可。这里澄清的一点,并不是没有公网固定 IP 地址就做 不通此实验。

从上网的方式,这里主要介绍经常接触到的三种:

- (1) 通过 Modem 直接拨号上 Internet;
- (2) 通过 ADSL Modem 拨号上 Internet;
- (3) 通过路由器上 Internet (这种方式也可用在专线上网的地方,如公司专线);

不管以何种方式上 Internet, 首先要在 PC 上装 SINAUT Micro sc 软件, 安装步骤如下: 将 SINAUT MICRO SC 的 CD-ROM 放入 CD 驱动器,运行 Setup.exe。选择您需 要的语言。安装助手会引导您进行整个安装过程。



点击"Next"按钮出现下面的窗口。

icense Agreement Please review the license terms before i SC.		
Press Page Down to see the rest of the	agreement.	
⁵ lease note:		*
This software is protected under Germa provisions in international treaties. Una software or parts of it is liable to prose as well as civil law and may result in sev Please read all license provisions applica this software. You will find them after t If you purchased this software on a CD apother licensed software for you, this	an and/or US American Copyright Laws and authorized reproduction and distribution of this oution. It will be prosecuted according to criminal vere punishment and/or damage claims. able to this software before installing and using this note. O marked as "Trial-Version" or together with software may only be used for test and	-
if you accept the terms of the agreeme	nt, click I Agree to continue. You must accept the	-
and the second sec		
agreement to install SINAUT MICRO SC.	•	
agreement to install SINAUT MICRO SC. soft Install System v2.11	•	10 11 11 11

点击"I Agree" 按钮出现下面的窗口

SINAUT MICRO SC			
license please enter the license number, and then p	ress next	S	MA
You will find the licence n keep this license number DEMO: 0000 0000 0000	umber on the box,	, please	
ridlisoft Install bystem v2.11	< Back	Next >	Cancel

输入序列号后(该号码您可以在包装里的许可证证书上找到。),点击" Next" 按钮,又会出现 下面的窗口:

SINAUT MICRO SC		
Choose Install Location Choose the folder in which to install S	SINAUT MICRO SC.	SIM
Setup will install SINAUT MICRO SC in Browse and select another folder. Cli	the following folder. To insta ck Install to start the installat	ill in a different folder, click ion.
Destination Folder		
Destination Folder	MICRO SC	Browse
Destination Folder C:\Programme\Siemens\SINAUT Space required: 3.SMB	MICRO SC	Browse
Destination Folder C:\Programme\Siemens\SINAUT Space required: 3.SMB Space available: 4.3GB	MICRO SC	Browse
Destination Folder C:\Programme\Siemens\SINAUT Space required: 3.5MB Space available: 4.3GB Alsoft Install System v2.11	MICRO SCI	Browse

选择 Destination Folder (目标文件夹),即 SINAUT MICRO SC 的安装位置。



SINAUT MICRO SC 软件启动后,会在任务栏里显示程序图标。

一、通过Modem直接拨号上Internet,中心站的配置步骤:

本例用的Modem为PC上内置的调制解调器,将电话线直接接到PC上,按下面的步骤进行配置。

系统配置需求

部件	数量	定货号	注释
DELL D610	1		内置 Modem
电话线	1		直接拨外线
S7-200 CPU 224 XP	1	6ES7 214-2AD23- 0XB0	直流供电
SINAUT MD720-3	1	6NH9720-3AA00	GPRS Modem
天线 ANT 794-4MR	1	6NH9860-1AA0	
PC/PPI cable	2	6ES7 901-3CB30- 0XA0	串口接口

在 PC 里的内置 Modem 的型号

B Device Manager	
<u>Eile Action ⊻iew Help</u>	
E 🖳 CN1NJT3C	~
🕀 💘 Batteries	
🕀 😼 Computer	
E 🧇 Disk drives	
日一番 Usplay adapters	
🗄 📓 Infrared devices	
🕀 🐷 Keyboards	
🗄 ற Mice and other pointing devices	
E b Modems	
Conexant D110 MDC V.9x Modem	
Standard 19200 bps Modem	
Monitore	
Remain Network adapters	- 15
Ran Droadcom MolVtrome 57// Giabit Controllor	~

此实验用的是内置Modem,当然根据实际的条件也可以用外置的Modem,在这里我们就不再 作更多的介绍,所用的电话线是模拟电话线,而不能用数字电话线。

在系统的任务栏里,选择"Start→Program→Accessories→Communication→Network Setup Wizard"如图 3 所示。



在上面的窗口中点击"Next"按钮,后弹出如下窗口:

New Connection Wizard	
Network Connection Type Image: What do you want to do?	
 Connect to the Internet Connect to the Internet so you can browse the Web and read email. Connect to the network at my workplace Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location. Set up a home or small office network Connect to an existing home or small office network or set up a new one. Set up an advanced connection Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it. 	
《 <u>Back Next</u> 》 Cancel 在上面的窗口中选择" Connect to Internet" 后,继续点击" Next" 按钮,后弹 New Connection Wizard	出如下窗口:
Getting Ready The wizard is preparing to set up your Internet connection.	
 How do you want to connect to the Internet? Choose from a list of Internet service providers (ISPs) Set up my connection manually For a dial-up connection, you will need your account name, password, and a phone number for your ISP. For a broadband account, you won't need a phone number. Use the <u>CD I got from an ISP</u> 	
< <u>B</u> ack <u>N</u> ext > Cancel	

选择" Set up my connection manually" 后,继续点击" Next" 按钮

New Connection Wizard		
Internet Connection How do you want to connect to the Internet?		
 Connect using a dial-up modem This type of connection uses a modem and a regular or ISDN phone line. Connect using a broadband connection that requires a user name and password This is a high-speed connection using either a DSL or cable modem. Your ISP may refer to this type of connection as PPPoE. Connect using a broadband connection that is always on This is a high-speed connection using either a cable modem, DSL or LAN connection. It is always active, and doesn't require you to sign in. 		
<pre></pre>		
New Connection Wizard Select a Device This is the device that will be used to make the connection.		
You have more than one dial-up device on your computer. <u>S</u> elect the devices to use in this connection: <u>Modem - Conexant D110 MDC V.9x Modem (COM3)</u> Modem - Vtion-V1806 Wireless modem (COM4)		
< <u>Back</u> Next > Cancel		

继续点击"Next" 按钮

v Connection Wizard	
Connection Name What is the name of the service that prov	vides your Internet connection?
Type the name of your ISP in the following	box.
ISP N <u>a</u> me	
Dail	
The name you type here will be the name t	n the connection you are creating.
ISP Name" 中输入" Dail" 后继续	< <u>B</u> ack <u>N</u> ext > Cancel 点击"Next"按钮
v Connection Wizard	
Phone Number to Dial What is your ISP's phone number?	
Type the phone number below.	
Phone number:	
You might need to include a "1" or th you need the extra numbers, dial the hear a modem sound, the number dia	e area code, or both. If you are not sure phone number on your telephone. If you led is correct.

在"Phone number"中输入"16900",在这里不同地区的网络供应商的号不尽相同,收费的标准也不一样,可上网去查找当地的上网号以及收费方式。

New Connection Wizard	
Internet Account Infor You will need an acco	mation ount name and password to sign in to your Internet account.
Type an ISP account safe place. (If you hav	name and password, then write down this information and store it in a e forgotten an existing account name or password, contact your ISP.)
<u>U</u> ser name:	169
Password:	•••
<u>C</u> onfirm password:	•••
Use this account this computer	name and password when anyone connects to the Internet from
✓ Make this the defa	ault Internet connection
	< <u>B</u> ack <u>N</u> ext > Cancel

在 Internet 的客户信息中输入用户名、密码都为"169",继续点击"Next"

New Connection Wizard	
	Completing the New Connection Wizard You have successfully completed the steps needed to create the following connection: Dail • Make this the default connection • Share with all users of this computer • Use the same user name & password for everyone
	The connection will be saved in the Network Connections folder. Add a <u>shortcut to this connection to my desktop</u> To create the connection and close this wizard, click Finish.
	< <u>B</u> ack Finish Cancel

点击"Finish"完成了拨号网络链接的配置,此时我们就可以通过又击桌面上的"我的网络链接" 在弹出的窗口中选择"属性",如下图所示



选择后会弹出下面的窗口



Connect Dail	? 🛛
<u>U</u> ser name:	169
<u>P</u> assword:	•••
<mark> </mark>	ser name and password for the following users: who uses this computer
Djal:	16900
Dial	Cancel Properties <u>H</u> elp

输入"User name"、"Password"都为"169"后,点击"Dial"按钮进行拨号上网。

Connec	ting Dail
3	Dialing 16900 Cancel

上网成功后会在任务栏的右下角出现一个连接成功的图标,点击该图标可以查看连接属性, 在这里我们可以看到获得到的公网 IP 地址,这个地址是需要在 S7-200 的程序里的初始化的功能 块所指定的

🖢 Dail Status	? 🛛
General Details	
Property Device Name Device Type Server type Transports Authentication Compression PPP multilink framing Server IP address Client IP address	Value Conexant D110 MDC V.9x Modem modem PPP TCP/IP PAP (none) Off 202.106.2.109 202.106.28.197
	<u><u>C</u>lose</u>

上面的步骤就完成了通过电话线直接拨号上网连接。建立了 Internet 的连接。

然后,再配置 SINAUT Micro SC,配置步骤如下: 在任务栏选择"Start→SIMATIC→SINAUT MICRO SC→configuration"如图 14 所示



图 14 配置 SINAUT MISRO SC

打开 SINAUT MISRO SC 组态界面如图 15 所示

SINAUT MICRO	SC		
<u>File Extras ?</u>			
Connected stations			
Station	Number	Comment	Add
			Edit
			<u>D</u> elete
			Test status
			Status matrix
			Close

图 15 SINAUT MICRO SC

选择菜单"Extras"下的"Setting",打开图 16 的界面,设置语言为英语,Server 端口 26862。

Settings	
Canguage selection C German C English	
GPRS modems Server port 26862	<u>O</u> K <u>C</u> ancel

图 16 设置语言和端口号

设置完后,回到主窗口,点击"Add"按钮,添加一个远程站的配置如图 17 所示:

Properties - <	New station>	
Stationname	Station1	
Stationnumber	1 🔅	
GPRS modem-		
Name	modem1	
Password	secret1	
C Status monit	oring deactivated oring by value updates	
C Status monit	oring by RealTimeClock synchronization	
Comment		<u>D</u> K <u>C</u> ancel

图 17 远程站的配置

配置完成后,点击"OK"按钮,再回到主窗口。此时站的状态显示如图 18,表示此站不在线,原因是我们没有配置远程站。

SINAUT MICRO S	iC		
<u>File Extras ?</u>			
Connected stations			
Station	Number	Comment	Add
Station1	1		<u>E</u> dit <u>D</u> elete
			Test status
			Status matrix

图 18 站 1 的状态

此时,完成了对 SINAUT MICRO SC 的全部设置。

关于远程站的设置可以参考《MD720-3 GPRS Getting started》,在这里我们不再作更详细的介绍。

二、 通过 ADSL Modem 拨号上 Internet;

系统配置需求

部件	数量	定货号	注释
Windows PC	1		
SINAUT MICRO SC	1	6NH9910-0AA10-0AA3	8个站的授权
ADSL 拨号 Modem	1		
24V 电源	1	6EP1 331-1SH02	
S7-200 CPU 224 XP	1	6ES7 214-2AD23- 0XB0	直流供电
SINAUT MD720-3	1	6NH9720-3AA00	GPRS Modem
天线 ANT 794-4MR	1	6NH9860-1AA0	
PC/PPI cable	2	6ES7 901-3CB30- 0XA0	串口接口

系统连接图



图 2 通过 ADSL 拨号上网

配置 ADSL 的过程如下:

在系统的任务栏里,选择"Start→Program→Accessories→Communication→Network Setup Wizard"如图 3 所示。



图3新建网络连接

选择后弹出图4窗口:



Network Connection Type What do you want to do?
 Connect to the Internet Connect to the Internet so you can browse the Web and read email. Connect to the network at my workplace Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location. Set up an advanced connection Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it.
< <u>B</u> ack <u>N</u> ext > Cancel
图 5 配置连接属性

再点击按钮" Next" 后在出现的图 6 窗口中选择第二项。

New Connection Wizard		
Getting Ready The wizard is preparing to set up your Internet connection.		
How do you want to connect to the Internet?		
Choose from a list of Internet service providers (ISPs)		
Set up my connection manually		
For a dial-up connection, you will need your account name, password, and a phone number for your ISP. For a broadband account, you won't need a phone number.		
○Use the <u>C</u> D I got from an ISP		
< <u>B</u> ack <u>N</u> ext > Cancel		

图 6 选择连接方式

接着点击" Next" 按钮后出现图 7 窗口

New Connection Wizard		
Internet Connection How do you want to connect to the Internet?		
Connect using a <u>dial-up modem</u> This type of connection uses a modem and a regular or ISDN phone line.		
 Connect using a broadband connection that requires a user name and password 		
This is a high-speed connection using either a DSL or cable modern. Your ISP may refer to this type of connection as PPPoE.		
Connect using a broadband connection that is <u>a</u> lways on		
This is a high-speed connection using either a cable modem, DSL or LAN connection. It is always active, and doesn't require you to sign in.		
< <u>B</u> ack <u>N</u> ext > Cancel		
图 7 Internet 连接方式		

图 7 Internet 连接方式 再选择"Next"按钮,在弹出的图 8 中输入连接名"ADSL"。

New Connection Wizard
Connection Name What is the name of the service that provides your Internet connection?
Type the name of your ISP in the following box. ISP N <u>a</u> me
ADSL
The name you type here will be the name of the connection you are creating.
< <u>B</u> ack <u>N</u> ext > Cancel

图 8 配置连接名

输入连接名后。点击"Next"按钮后,再弹出的窗口再选择"Next"按钮,在弹出的图 9 窗口中 输入申请到的 ADSL 拨号 Modem 的账号和密码。

Internet Account Information You will need an account name and password to sign in to your Internet account.		
Type an ISP account name and password, then write down this information and store it in a		
safe place. (If you have forgotten an existing account name or password, contact your ISP.)		
User name: 280000023223		
Password:		
Confirm password:		
Use this account name and password when anyone connects to the Internet from this computer		
✓ Make this the default Internet connection		
< <u>B</u> ack <u>N</u> ext > Cancel		

图 9 配置账号

输入账号和密码后点击" Next" 按钮, 出现图 10, 然后点击" Finish" 按钮。

New Connection Wizard		
	Completing the New Connection Wizard	
	You have successfully completed the steps needed to create the following connection:	
	ADSL • Make this the default connection • Share with all users of this computer • Use the same user name & password for everyone	
	The connection will be saved in the Network Connections folder.	
	Add a shortcut to this connection to my desktop	
	To create the connection and close this wizard, click Finish.	
< <u>B</u> ack Finish Cancel		
图 10 配置完成		

配置完成后,在网络连接里会增加一拨号连接,如图 11 所示。



Connect ADS	L (
<u>U</u> ser name:	280000023223	
Password:	[To change the saved password, click here]	
✓ <u>S</u> ave this u ○ Me o <u>nly</u> ④ <u>A</u> nyone	user name and password for the following users: y e who uses this computer Cancel Pr <u>o</u> perties <u>H</u> elp	

图 12 拨号上网

拨号成功后会在任务栏的右下角添加一连接图标,双击该图标可以查看到上到公网后或得的 公网 IP (图 13 所示)(这个 IP 地址需要在 S7-200PLC 程序使用),在这里要注意的是,我们在申 请 ADSL 账号时,可以申请为固定公网 IP,也就是每次拨号上网,会得到一个相同的公网 IP 地址, 若没有申请为固定 IP,一般为动态 IP(即每次重新拨号上网后得到的 IP 地址都不一样),若作为工 程系统来用,那么每次断线后重拨获得的 IP 地址都不相同,相应的 PLC 的程序需要程序下载,这 样很不方便,所以要求是固定公网 IP,但若只是实验目的,动态 IP 也是可以的。

ADSL Status		? 🔀
General Details		
Property Device Name Device Type Server type Transports Authentication Compression PPP multilink framing Server IP address Client IP address	Value WAN Miniport (PPP0E) PPPoE PPP TCP/IP PAP (none) Off 222.128.29.193 222.128.29.196	
	(<u>C</u> lose

图 13 ADSL 连接状态

上面的步骤就完成了 ADSL 的拨号上网连接。建立了 Internet 的连接。

配置 SINAUT Micro SC 的步骤与配置直接拨号上网的完全一样。在远程站的配置里把拨号网络获得的公网 IP 地址换为用 ADSL 拨号上网获得的公网 IP 地址即可。

三、通过路由器上网

系统配置需求

部件	数量	定货号	注释
Windows PC	1		
SINAUT MICRO SC	1	6NH9910-0AA10-0AA3	8个站的授权
ADSL 拨号 Modem	1		
路由器	1	linksys	
24V 电源	1	6EP1 331-1SH02	
S7-200 CPU 224 XP	1	6ES7 214-2AD23- 0XB0	直流供电
SINAUT MD720-3	1	6NH9720-3AA00	GPRS Modem
天线 ANT 794-4MR	1	6NH9860-1AA0	
PC/PPI cable	2	6ES7 901-3CB30- 0XA0	串口接口

系统连接图



通过路由器上网,不同于前两种方案;前两种方案相当于把 PC 直接挂到了公网上,其它的 上到 Internet 的计算机都可以访问此 PC,这样容易受到网络攻击;而通过路由器上网,相当于把 中心站设在了内网的一台 PC 上,此计算机用的是私网的 IP 地址,在路由器上获得的是公网 IP 地址,在路由器上作端口映射,把指定端口的数据转发到内网指定的 IP 地址的计算机上,而内网此 IP 地址的计算机发往外部的数据,在发到路由器后,由路由器把其内网 IP 地址替换成公网 IP 地址后再把数据包发向 Internet。由于在路由器上一般都有防火墙的功能,所以增强了网络安全的功能。

对于公司通过专线上网的用户来说,只需把公司的路由器作相应的设置,让其作一个端口映 射,让其指向公司中的目台计算机上。

配置路由器的过程如下:

打开 IE 浏览器,在 IE 浏览器的地址栏里输入路由器的网卡的 IP 地址,如下图所示选择"Internet Connection Type"中选择"PPPoE";

在"PPPoE Settings"中设置"User Name"和"Password"为 ADSL 账号的"用户名"和 "密码";并选择"Keep alive: redial period"设置周期为 30 秒;

在"Network Address server Settings(DHCP)"设置选项里,选择"Local DHCP Server"为 "Enable"; "Start IP Address"为"192.168.1.100"; "Number of Address"为"50"

	rcn 💥 Pavorices 🐨 🔯 🧐 🦉 🛄 🦑 🔛 🦚	
e http://192.168.1.1/		💌 🄁 Go
Internet Setup		Basic Setup
Internet Connection Type	PPPoE 💌	The Basic Setup screen is
		where basic configuration is performed.Some ISPs (Internet
PPPoE Settings		Service Providers) will require that you enter the DNS
	User Name: 280000023223	information. These settings can be obtained from your ISP. After
	Password:	you have configured these
	Service Name:	password from
	Connection: Connect on Demand (Max Idle 5 Min.)	>Management screen.
	Keep Alive: Redial Period 30 Sec.	Completing the Internet Setup
Optional Settings	Host Name:	section is all that is required to set up for your specificISP.
(required by some ISPs)	Domain Name:	Please look at the table below to configure the Router for your
	MTU: C Fnable Disable Size: 1492	Internet connection.
		More
Network Setup		
Router IP	Local IP Address: 192 . 168 . 1 . 1	
	Subnet Mask: 255.255.0	
lietwork Address		-
Server Settings (DHCP)	Local DHCP Server: Enable Disable	
	Start IP Address: 192.168.1. 100	
	Address	
	Range: 192.168.1.100 to 192.168.1.149	
	Client Lease Time: 0 minutes (0 means one day)	

设置后设置 PC 的网络连接属性如下图:

nternet Protocol (TCP/IP) Pro	perties 🛛 🕅 🛛
General Alternate Configuration	
You can get IP settings assigned this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
Obtain an IP address autom	atically
OUse the following IP address	s:
<u>I</u> P address:	
Sybnet mask:	
Default gateway:	
⊙ O <u>b</u> tain DNS server address	automatically
Use the following DNS serve	er addresses:
Preferred DNS server:	
Alternate DNS server:	(* * *),
	Advanced
	OK Cancel

设置完后重新启动路由器,重启后再通过浏览器进入到路由器的配置页面后,点击"status" 查看其状态,如下图所示:

Edit View Favorites Tools Help						
Back 🔹 🕥 - 💌 😰 🏠 🔎	Search 👷 Favorites 🙆	8- 🌡 🖻 🗖 🌾	. 🛍 🚳			
idress a http://192.168.1.1/RouterStatus.htm						Go
					_	
LINKSYS						
A Division of Cisco Systems, Inc.					Firmware Version: 1.52.3	
			Broadban	d Firewall Router	BEFSX41	
Status	Setun Securit	Restrict	Applications	Administration	Status	
	Router Local Netv	Access Vork	& Gaming			
Information				Router	4	
	Firmware Version:	1.52.3, Jan 18 2005		This screen	provides the	
	MAC Address:	00-0F-66-D2-D1-BF		Router's cu	rrent status in a read-only	
	-			format.		
Status				Informatio	n	
	Login Type:	PPPoE Connected	connect	Firmware V	'ersion	
	Internet Address:	222.128.29.196		Show the c the Router.	urrent firmware of	
	Subnet Mask:	255.255.255.0		MAC Addre	\$5	
	DNS 1:	202.106.0.20		Shows the your Interne	MAC Address of t interface.	
	DNS 2:	202.106.46.151		Mara		
	DNS 3:	0.0.0.0		more		
	MTU:	1492				
	Current Time:	May 29 2007 Tue. 1:23:27				
	8					

此时,再点击任务栏右下角的网络连接属性,如下图

Connec	tion status	
3	Address Type:	Assigned by DHCP
	IP Address:	192.168.1.100
	Subnet Mask:	255.255.255.0
	Default Gateway:	192.168.1.1
	Details	
Window: connecti Repair.	s did not detect problems with th ion. If you cannot connect, click	is Repair

设置端口映设的如下图

Back •	n - 🖬 🖬 🔥 🔎	Search 🔶 Fav	vorites 🧭	Q. 8					
		~	V				×		(
ss 🙋 http	://192.168.1.1/Forwarding.htm							📉 🔁 G	
	A Division of Cisco Systems, Inc.							Firmware Version: 1.52.3	
						Brog	dhand Eir	owall Poutor	
	Applications							ewall Notici Di SA41	
	& Gaming	Setup	Secu	rity	Restrict Access	Applicatio & Gamin	ns Ad	Iministration Status	
		Port Range Forv	warding	Port Trigger	ng UPn	P Forwarding	DMZ	QoS	
	Port Range Forwarding							Port Range	
			Port R	nae	0			Forwarding	
		Application	Start	End	TCP UDP	IP Address	Enabled	Port Range Forwarding can be used to set up public services	
		GPRS	26862	26862	TCP V	1921681 100		on your network. When users from the Internet make certain	
			0	0	Both V	192.168.1 []		requests on your network, the Router can forward those	
			0		Both V	192.168.1 0		requests to computers equipped to handle the requests. If, for	
					Both V	192.100.1.0		example, you set the port number 80 (HTTP) to be	
			0		Both V	102.100.1.0		192.168.1.2, then all HTTP	
				0	Both V	102.100.1.0		be forwarded to 192.168.1.2. It	
					Both V	192.100.1.0		computer use static IP address.	
			0		Both M	402.409.4		llero	
					Doth P	192.168.1.0		More	
					Doth V	192.168.1.0			
			U	U	Both 🎽	192.168.1.U			

上面的步骤就完成了路由器的上网连接。建立了 Internet 的连接。

配置 SINAUT Micro SC 的步骤与上两种方式一样。在远程站的 S7-200 的初始化功能块的 IP 地址的参数应设置为在路由器上获得的公网 IP 地址,而不是本地 PC 的网卡的 IP 地址。