User Manual

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CE Declaration of Conformity

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022/A1 Class B, and EN 50082-1. This meets the essential protection requirements of the European Council Directive 89/336/EEC on the approximation of the laws of the member states relation to electromagnetic compatibility.

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Chapter 1 Introduction

Congratulations on your purchase of this outstanding Broadband Router. This product is specifically designed for Small Office and Home Office needs. It provides a complete SOHO solution for Internet surfing and office resources sharing, and it is easy to configure and operate for even non-technical users. Instructions for installing and configuring this product can be found in this manual. Before you install and use this product, please read this manual carefully for fully exploiting the functions of this product.

1.1 Functions and Features

• Broadband modem and IP sharing

connects multiple computers to a broadband (cable or DSL) modem or an Ethernet router to surf the Internet.

• Auto-sensing Ethernet Switch

equipped with a 4-port auto-sensing Ethernet switch.

• VPN supported

supports multiple PPTP sessions and allows you to setup VPN server and VPN clients.

• Printer sharing (Optional)

embeds a print server to allow all of the networked computers to share one printer.

• Firewall

all unwanted packets from outside intruders are blocked to protect your Intranet.

• DHCP server supported

all of the networked computers can retrieve TCP/IP settings automatically from this product.

• Web-based configuring

configurable through any networked computer's web browser using Netscape or Internet Explorer.

• Access Control supported

allows you to assign different access right for different users.

• Virtual Server supported

enables you to expose WWW, FTP and other services on your LAN to be accessible to Internet users.

• User-Definable Application Sensing Tunnel

user can define the attributes to support the special applications requiring multiple connections, like Internet gaming, video conferencing, Internet telephony and so on, then this product can sense the application type and open multi-port tunnel for it.

• DMZ Host supported

lets a networked computer to be fully exposed to the Internet; this function is used when special application sensing tunnel feature is insufficient to allow an application to function correctly.

1.2 Packing List

- One broadband router unit
- One installation CD-ROM
- One power cord and power adapter
- Two CAT-5 UTP Fast Ethernet cable

Chapter 2 Hardware Installation

2.1. Panel Layout

2.1.1. Front Panel



Figure 2-1 Front Panel

- **RESET** When RESET is pushed, system settings will be set to factory defaults.
- **M1&M2** System status indicators, *Orange*. M1 is flashed once per second to indicate system is alive. When system is busy, M2 is lighted.
- **WAN & LAN** Ethernet port indicators, *Green*. The LED flickers when LAN or WAN port is sending or receiving data.
 - **Link/Act.** Link status indicators, *Green*. The LED flickers when the corresponding port is sending or receiving data
 - **10/100** 10/100 status indicators, *Green*. The LED flickers when the corresponding port is transmitting or receiving data in 10 or 100Mbps.
 - **Port 1 4** LAN port socket (RJ-45). These are where you will connect to device on your local area network, for example HUB and switch.

2.1.2. Rear Panel



Figure 2-2 Rear Panel

- **PRINTER** Parallel port connector (25-pins D-type female). This is where you will connect the shared printer. (Optional)
 - **WAN** WAN port socket (RJ-45). This is where you will connect to your cable (or DSL) modem or Ethernet router.

- **COM** Serial port connector (9-pins D-type male). This is where you will connect your modem. This port is also a console port.
- **Power** Power inlet. This is where you connect the included power adapter. *Note that, the included power adapter is DC 5V/1A. Using wrong type of power adapter may cause this product damage.*

2.2. Installation Requirements

This product can be positioned at any convenient place in your office or house. No special wiring or cooling requirements is needed. However, you should comply with the following guidelines to install:

- Place this product on a flat horizontal plane.
- Keep this product away from any heating devices.
- Do not place this product in dusty or wet environment.

The recommended operational specifications of this product are:

Temperature	0 °C ~ 55 °C
Humidity	5 % ~ 90 %

In addition, remember to turn off the power, remove the power cord from the outlet, and keep your hands dry when you try to install the hardware of this product.

2.3. Procedure for Hardware Installation

1. Setup LAN connection: connect an Ethernet cable from your computer's Ethernet port to one of the LAN ports of this product.

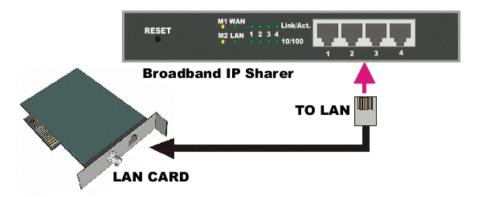


Figure 2-5 Setup of LAN connections for this product.

- 2. Setup WAN connection: prepare an Ethernet cable for connecting this product to your cable/xDSL modem or Ethernet backbone. Figure 25 illustrates the WAN connection.
- **3.** Connecting this product with your printer: use the printer cable to connect your printer to the printer port of this product.(Optional)

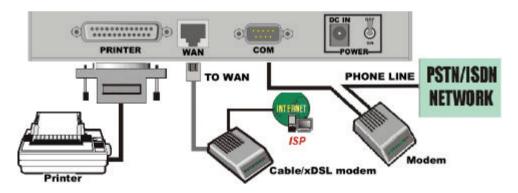


Figure 2-6 Setup of WAN and Printer connections for this product.

4. Power on:

Connecting the power cord to power inlet and turning the power switch on, this product will automatically enter the self-test phase. When it is in the self-test phase,

the indicators M1 and M2 will be lighted ON for about 5 seconds, and then M1 and M2 will be flashed 3 times to indicate that the self-test operation has finished. Finally, the M1 will be continuously flashed once per second to indicate that this product is in normal operation.

Chapter 3 Network Settings and Software Installation

To use this product correctly, you have to properly configure the network settings of your computers and install the attached setup program into your MS Windows platform (Windows 95/98/NT).

3.1 Make correct network settings of your computer

The default *IP address* of this product is 192.168.123.254, and the default *subnet mask* is 255.255.255.0. These addresses can be changed on your need, but the default values are used in this manual. If the TCP/IP environment of your computer has not yet been configured, you can refer to *Appendix B* to configure it. For example,

- 1. configure *IP* as 192.168.123.1, *subnet mask* as 255.255.255.0 and *gateway* as 192.168.123.254, or more easier,
- configure your computers to load TCP/IP setting automatically, that is, via DHCP server of this product.

After installing the TCP/IP communication protocol, you can use the *ping* command to check if your computer has successfully connected to this product. The following example shows the ping procedure for Windows 95 platforms. First, execute the *ping* command

ping 192.168.123.254

If the following messages appear:

Pinging 192.168.123.254 with 32 bytes of data:

Reply from 192.168.123.254: bytes=32 time=2ms TTL=64

a communication link between your computer and this product has been successfully established. Otherwise, if you get the following messages,

Pinging 192.168.123.254 with 32 bytes of data:

Request timed out.

there must be something wrong in your installation procedure. You have to check the following items in sequence:

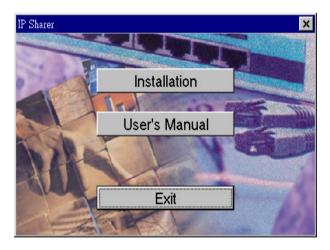
- Is the Ethernet cable correctly connected between this product and your computer?
 Tip: The LAN LED of this product and the link LED of network card on your computer must be lighted.
- 2. Is the TCP/IP environment of your computers properly configured?

Tip: If the IP address of this product is 192.168.123.254, the IP address of your computer must be 192.168.123.X and default gateway must be 192.168.123.254.

3.2 Install the Software into Your Computers

Skip this section if you do not want to use the print server function of this product.

Step 1: Insert the installation CD-ROM into the CD-ROM drive. The following window will be shown automatically. If it isn't, please run "install.exe" on the CD-ROM.



Step 2: Click on the *INSTALL* button. Wait until the following *Welcome* dialog to appear, and click on the *Next* button.



Step 3: Select the destination folder and click on the *Next* button. Then, the setup program will begin to install the programs into the destination folder.



Step 4: When the following window is displayed, click on the *Finish* button.



Step 5: Select the item to restart the computer and then click the *OK* button to reboot your computer.

reboot
To make the Product workable for you ,please remember rebooting your computer
 Yes, I want to restart my computer now. No, I will restart my computer later.
OK

Step 6: After rebooting your computer, the software installation procedure is finished.

Now, you can configure the Internet Sharer (refer to Chapter 4) and setup the Print Server (refer to Chapter 5).

Chapter 4 Configuring IP Sharer

This product provides Web based configuration scheme, that is, configuring by Netscape Communicator or Internet Explorer. This approach can be adopted in any MS Windows, Macintosh or UNIX based platforms.

4.1 Start-up and Log in

Eile Edit View Fa		Explorer	
Address 🙆 http://192.16	58.123.254/		▼ ∂
	Multi-Functional Broad	lband NAT Router	
User's Main Menu	Sy	stem Status	
<u>Status</u>	Item	WAN Status	Sidenote
System Password	Lease Time	00:00:00	
	IP Address	0.0.0.0	
(default: admin)	Subnet Mask	0.0.0.0	
	Gateway	0.0.0.0	
Log in	Domain Name Server	0.0.0.0	

Activate your browser, and *disable the proxy* or *add the IP address of this product into the exceptions*. Then, type this product's IP address in the *Location* (for Netscape) or *Address* (for IE) field and press ENTER. For example: *http://192.168.123.254*.

After the connection is established, you will see the web user interface of this product. There are two appearances of web user interface: *for general users* and *for system administrator*.

To log in as an administrator, enter the system password (the factory setting is "*admin*") in the *System Password* field and click on the *Log in* button. If the password is correct, the

web appearance will be changed into administrator configure mode. As listed in its main menu, there are several options for system administration.

4.2 Status

Broadband NAT Router	Web-Console - Microsoft Interne	et Explorer	_	Π×	
<u> </u>					
Address 🛃 http://192.168	.123.254/		• (∂Go	
	Multi-Functional Broadband NAT Router				
User's Main Menu System Status				^	
• <u>Status</u>	Item	WAN Status	Sidenote		
System Password	Lease Time	00:00:00			
	IP Address	0.0.0.0			
(default: admin)	Subnet Mask	0.0.0.0			
Logio	Gateway	0.0.0.0			
Log in	Domain Name Server	0.0.0.0			
				•	

This option provides the function for observing this product's working status:

A. WAN Port Status.

If the WAN port is assigned a dynamic IP, there may appear a "**Renew**" or "**Release**" button on the *Sidenote* column. You can click this button to renew or release IP manually.

- B. Modem Status.
- C. Printer Status. The possible kinds of printer status include "*Ready*," "*Not ready*," "*Printing*...", and "*Device error*."

When a job is printing, there may appear a "Kill Job" button on the Sidenote column. You can click this button to kill current printing job manually.

4.3 Toolbox

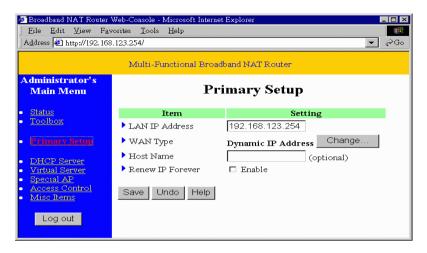
🚰 Broadband NAT Rou	iter Web-Console - Microsoft Internet Explorer	- 🗆 ×
Eile Edit View	Favorites Tools Help	
Address 🖉 http://192.1	58.123.25 4 /	-
	Multi-Functional Broadband NAT Router	
Administrator's Main Menu	Administrator's Toolbox	
• <u>Status</u>	Change Administrator's Password	
 <u>Toolbox</u> 		
• <u>Primary</u> <u>Setup</u> • <u>DHCP Server</u>	Old Password New Password Reconfirm	
<u>Virtual Server</u>	Miscellaneous Information & Commands	
Special AP Access <u>Control</u> <u>Misc Items</u> Log out	Firmware version: R1.87e WAN's MAC Address: 00-50-18-56-11-12 View Log Reboot Clone MAC	

This option enables you change the administrator password. Besides, you can get the information about *Firmware version* and *WAN's MAC Address*.

You can also reboot this product by clicking the **Reboot** button.

Note: we strongly recommend you to change the system password for security reason. If you forgot the system password, please refer to Appendix A to reset a new one.

4.4 Primary Setup



This option is primary to enable this product to work properly. The setting items and the web appearance depend on the WAN type. Choose correct WAN type before you start.

- LAN IP Address: this product's IP address. The default address is 192.168.123.254. You can change it on your need.
- 2. *WAN Type*: WAN connection type of your ISP. Yo u can click **Change** button to choose a correct one from the following four options:
 - A. Static IP Address: ISP assigns you a static IP address.
 - B. Dynamic IP Address: Obtain an IP address from ISP automatically.
 - C. *PPP over Ethernet*: Some ISPs require the use of PPPoE to connect to their services.
 - D. Dial-up Network: To surf the Internet via PSTN/ISDN.

4.4.1 Static IP Address

WAN IP Address, Subnet Mask, Gateway, Primary and Secondary DNS: enter the proper setting value provided by your ISP.

4.4.2 Dynamic IP Address

- 1. Host Name: optional. Required by some ISPs, for example, @Home.
- 2. *Renew IP Forever*: this feature enable this product renew IP address automatically when the lease time is being expired even the system is in idle state.

4.4.3 PPP over Ethernet

- 1. *PPPoE Account* and *Password*: the account and password your ISP assigned to you. If you don't want to change the password, keep it empty.
- 2. PPPoE Service Name: optional. Input the service name if your ISP requires it.
- 3. *Maximum Idle Time*: the time of no activity to disconnect your PPPoE session. Set it to 0 will disable this feature.

4.4.4 Dial-up Network

- 1. *Dial-up Telephone*, *Account* and *Password*: assigned by your ISP. If you don't want to change the password, keep it empty.
- 2. *Primary* and *Secondary DNS*: automatically assigned if they are configured as "0.0.0.0."
- 3. *Maximum Idle Time*: the time of no activity to disconnect your dial-up session.
- 4. *Baud Rate*: the communication speed between this product and your MODEM or ISDN TA.
- 5. *Extra Setting*: needed to optimize the communication quality between the ISP and your MODEM or ISDN TA

4.5 DHCP Server

	Web-Console - Microsoft Internet orites Tools Help 123.254/	Explorer	× ∰ ↓ ∂Go
	Multi-Functional Broad	band NAT Router	
Administrator's Main Menu	DI	ICP Server	
 <u>Status</u> 	Item	Setting	
 <u>Toolbox</u> 	 DHCP Server 	⊙Disable ⊂Enable	
• Primary Setup	▶ IP Pool Starting Address	100	
DHCP Server	▶ IP Pool Ending Address	199	
 <u>Virtual Server</u> 	Domain Name		1
<u>Special AP</u>		1	
 <u>Access Control</u> <u>Misc Items</u> 	Save Undo Help		
Log out			

The settings of TCP/IP environment include Host IP, Subnet Mask, Gateway, and DNS configurations. It is not a simple task to correctly configure all the computers in your LAN environment. Fortunately, DHCP provides a rather simple approach to handle all these settings. This product supports the function of DHCP server. If you enable this product's DHCP server and configure your computers as "automatic IP allocation" mode, then when your computer is powered on, it will automatically load the proper TCP/IP settings from this product. The settings of DHCP server include the following items:

- 1. DHCP Server: Choose "Disable" or "Enable."
- 2. *Range of IP Address Pool*: Whenever there is a request, the DHCP server will automatically allocate an unused IP address from the *IP address pool* to the requesting computer. You must specify the starting and ending address of the IP address pool.
- 3. Domain Name: Optional, this information will be passed to the client.

4.6 Virtual Server

.ddress 🙋 http://192.168				• 0
dministrator's	M	ulti-Functional Broadb	and NAT Router	
Main Menu		Vir	tual Server	
Status	D	Service Port	Server IP	Enable
<u>Toolbox</u>	1	21	192.168.123.	
Primary Setup	2	80	192.168.123.2	2
DHCP Server	3	1723	192.168.123.6	N
Virtual Server	4		192.168.123.	
<u>Special AP</u> Access Control	5		192.168.123.	
Misc Items	6			
Log out	7	AUT	H(113) 23	
Log out	8		(53) 23.	
	9	POF	23 (110)	
	10		P (1723) P (25) 23	
			NET (23) B (80)	
	Wel	l known services se		
	**61			

This product's NAT firewall filters out unrecognized packets to protect your Intranet, so all hosts behind this product are invisible to the outside world. If you wish, you can make some of them accessible by enabling the *Virtual Server Mapping*.

A virtual server is defined as a *Service Port*, and all requests to this port will be redirected to the computer specified by the *Server IP*.

For example, if you have an FTP server (port 21) at 192.168.123.1, a Web server (port 80) at 192.168.123.2, and a VPN server at 192.168.123.6, then you need to specify the following virtual server mapping table:

Service Port	Server IP	Enable
21	192.168.123.1	V
80	192.168.123.2	V
1723	192.168.123.6	V

4.7 Special AP

Broadband NAT Router File Edit View Fa	Web-Console - Micros vorites Tools Help	oft Internet Explorer	
Address 🕘 http://192.168			▼ ∂Go
	Multi-Func	tional Broadband NAT Router	
Administrator's Main Menu		Special Applications	
<u>Status</u> The all and	ID Trigger	Incoming Ports	Enable
• <u>Toolbox</u>	1 6112	6112	N.
 <u>Primary Setup</u> 	2 554	6970-6999	u
 DHCP Server 	3		
 <u>Virtual Server</u> 	4		
 <u>Special AP</u> Access Control 			
 <u>Misc Items</u> 	Popular applic:	ations Quick Time 4 🚽 Copy to	
	r opana approx	select one	
Log out	Save Undo	Help Battle.net Dialpad	
		lico ii	
		MSN Gaming Zone PC-to-Phone	
		Quick Time 4	

Some applications require multiple connections, like Internet games, Video conferencing, Internet telephony and so on. Due to the firewall function, these applications can not work with pure NAT router. Special Applications makes some of these applications to work with NAT router. If Special Applications is still insufficient to allow an application to function correctly, try DMZ host in the *Misc Items* options.

- 1. *Trigger*: the outbound port number the application issued first.
- 2. *Incoming Ports*: when the trigger packet is detected, the inbound packets to the specified port numbers are allowed to pass the firewall.

This product provides some predefined settings in the gray pad on the bottom of the web page. Choose the **Popular application** and click **Copy** to copy the predefined setting.

Note! At any time, only one PC can use each Special Application tunnel.

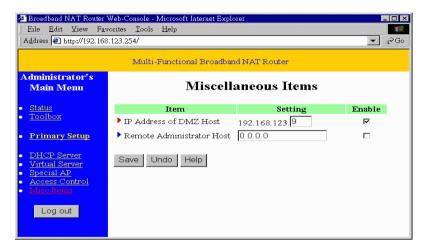
4.8 Access Control

🖉 Broadband NAT Router \		ernet Explorer	_ 🗆 ×
1	orites <u>I</u> ools <u>H</u> elp		1
Address 🛃 http://192.168.	.123.254/		▼ ∂Go
	Multi-Fu	nctional Broadband NAT Router	
Administrator's Main Menu		Access Control	
<u>Status</u>	Item	Setting	
• <u>Toolbox</u>	Access Control	🗹 Enable	
 Primary Setup 	Default Group: all h	nosts except those listed on the other groups	
	Allow 💌 ports]
 <u>DHCP Server</u> Virtual Server 	Group 1 members	100-199	
 Special AP 	Allow 💌 ports	25,53,80,110]
 <u>Access Control</u> Misc Items 	Group 2 members	50-99]
	Block 💌 ports	21,119]
Log out	Group 3 members	1-9,20]
	Block - ports		1
	Save Undo Hel	D	

Access Control allows you to assign different access right for different users. First, you have to divide users into different groups. Users are identified by their IP addresses. You can assign the members of Group 1, 2 and 3. The others are all members of Default Group. Second, you have to assign the access right of each group. Access right can allow or block users to access specified TCP and UDP ports. For example:

Group	Members	Access Right	Comments
Default	-	Allow ()	No access right (allow nothing)
Group 1	100-199	Allow (25,53,80,110)	Can browse(80), receive(110) and send(25) email only
Group 2	50-99	Block (21,119)	Cannot read net news(119) and FTP(21) only
Group 3	1-9,20	Block ()	Fully access (block nothing)

4.9 Misc Items



- 1. *IP Address of DMZ Host*: DMZ (DeMilitarized Zone) Host is a host without the protection of firewall. It allows a computer to be exposed to unrestricted 2-way communication. Note that, this feature should be used only when needed.
- 2. *Remote Administrator Host*: In general, only Intranet user can browse the built-in web pages to perform administration task. This feature enables you to perform administration task from remote host. If this feature is enabled, only the specified IP address can perform remote administration. If the specified IP address is 0.0.0.0, any host can connect to this product to perform administration task. When this feature is enabled, the web port will be shifted to 88.

Chapter 5 Print Server

This product provides the function of network print server for MS Windows 95/98/NT and Unix based platforms. (If the product you purchased doesn't have printer port, please skip this chapter.)

5.1 Configuring on Windows 95/98 Platforms

After you finished the software installation procedure described in Chapter 3, your computer has possessed the network printing facility provided by this product. For convenience, we call the printer connected to the printer port of this product as *server printer*. On a Windows 95/98 platform, open the *Printers* window in the *My Computer* menu:



Now, yon can configure the print server of this product:

Find out the corresponding icon of your s*erver printer*, for example, the HP LaserJet
 6L. Click the mouse's right button on that icon, and then select the *Properties* item:

HP LaserJet 6L (PCL) Properties	? ×
General Details Sharing Paper Print Quality Fonts Device Options	
HP LaserJet 6L (PCL)	
<u>C</u> omment:	
Separator page: (none) Browse	
Print <u>T</u> est Page	
OK Cancel Apply Hei	p.

2. Click the *Details* item:

HP LaserJet 6L (PCL) Properties
General Details Sharing Paper Print Quality Fonts Device Options
HP LaserJet 6L (PCL)
Print to the following port:
PRTmate: (All-in-1) Add Port
Delete Port
Print using the following driver:
Capture Printer Port End Capture
Timeout settings
Not selected: 15 seconds
Transmission retry: 45 seconds
Spool Settings Port Settings
OK Cancel Apply Help

- 3. Choose the "PRTmate: (All-in-1)" from the list attached at the *Print To* item. Be sure that the *Printer Driver* item is configured to the correct driver of your*server printer*.
- 4. Click on the button of *Port Settings*:

Printer Position	×
Enter the Product IP :	ОК
192.168.123.254	Cancel

Type in the IP address of this product and then click the OK button.

5. Make sure that all settings mentioned above are correct, then click the **OK** button.

5.2 Configuring on Windows NT Platforms

The configuration procedure for a Windows NT platform is similar to that of Windows 95/98 except the screen of printer *Properties*:

爹 Hewlett Packard La	serJet 6L Properties	? ×				
General Ports Sche	duling Sharing Secu	rity Device Settings				
Hewlett Packard LaserJet 6L						
Print to the following por checked port.	t(s). Documents will prir					
Port	Description	Printer 🔺				
LPT3:	Local Port					
COM1:	Local Port					
	Local Port					
	Local Port Local Port					
	Local Port					
	Local Port					
	Local Port	Hewlett Packard L				
Add Port	Delete Port	<u>C</u> onfigure Port				
Enable bidirectional	support					
Enable printer poolir	ng					
		OK Cancel				

Compared to the procedure in last section, the selection of *Details* is equivalent to the selection of **Ports**, and *Port Settings* is equivalent to *Configure Port*.

5.3 Configuring on Unix based Platforms

Please follow the traditional configuration procedure on Unix platforms to setup the print server of this product. The printer name is "lp."

Appendix A Console Mode

When you forget the system password or the IP address of this product, you need enter console mode to reset them.

Before invoking the console program, be sure to find a null modem cable and use it to connect from this product's COM port to your computer's COM port. Then, execute a terminal program, such as the *Hyper Terminal* of MS Windows 95. The connection parameters should be set to **19200 &N-1**. And, reboot this product. When the M1 indicator starts flashing regularly, you can press the "*Enter*" key of the keyboard several times, there should be some messages and console prompt ">" appeared in the terminal. In the console mode, you may reset the IP address and the system password of this

product. Please remember to execute the **SR** command to save the changes you have made. For example,

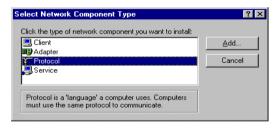
IP 192.168.123.254 PW admin SR

Appendix B TCP/IP Configuration for Windows 95/98

This section introduces you how to install TCP/IP protocol into your personal computer. And suppose you have been successfully installed one network card on your personal computer. If not, please refer to your network card manual. Moreover, the Section B.2 tells you how to set TCP/IP values for working with this IP Sharer correctly.

B.1 Install TCP/IP protocol into your PC

- 1. Click Start button and choose Settings, then click Control Panel.
- 2. Double click *Network* icon and select *Configuration* tab in the Network window.
- 3. Click *Add* button to add network component into your PC.
- 4. Double click *Protocol* to add TCP/IP protocol.



5. Select *Microsoft* item in the *manufactures* list. And choose *TCP/IP* in the *Network Protocols*. Click *OK* button to return to Network window.

Select Network Protocol	×
	stocol that you want to install, then click OK. If you have this device, click Have Disk.
Manufacturers:	Network Protocols:
왕 Banyan 왕 IBM 한 Microsoft 왕 Novell	Fast Infrared Protocol Fast Infrared Protocol IPX/SPX-compatible Protocol Microsoft 32-bit DLC Microsoft DLC Microsoft DLC Microsoft DLC TCP/IP TCP/IP
	Have Disk
	OK Cancel

6. The TCP/IP protocol shall be listed in the Network window. Click *OK* to complete the install procedure and restart your PC to enable the TCP/IP protocol.

B.2 Set TCP/IP protocol for working with IP Sharer

1. Click *Start* button and choose *Settings*, then click *Control Panel*.

2. Double click *Network* icon. Select the TCP/IP line that has been associated to your network card in the *Configuration* tab of the Network window.

etwork	? :
Configuration Identification Access Control	
The following network components are installed:	
■ PCI Fast Ethernet DEC 21140 Based Adapter	<u> </u>
For the second secon	
TCP/IP → PCI Fast Ethernet DEC 21140 Based Ada Based Ada File and printer sharing for Microsoft Networks	pter
Add Remove Prope	rties
Primary Network Logon:	
Client for Microsoft Networks	-
Eile and Print Sharing	
Description TCP/IP is the protocol you use to connect to the Intern wide-area networks.	et and
OK	Cancel

- 3. Click *Properties* button to set the TCP/IP protocol for this IP Sharer.
- 4. Now, you have two setting methods:
 - A. Get IP via DHCP server

a. Select *Obtain an IP address automatically* in the *IP Address* tab.

TCP/IP Properties		? ×
Bindings	Advanced	NetBIOS
DNS Configuration	Gateway WINS Confi	guration IP Address
If your network doe	be automatically assigne se not automatically assig nistrator for an address, a	n IP addresses, ask
	address automatically address:	
Sybnet Masl	k: • •	
	OK	Cancel

b. Don't input any value in the *Gateway* tab.

TCP/IP Properties				?
Bindings DNS Configuration		anced WINS Config		etBIOS IP Address
The first gateway i The address order machines are used	in the list wi			
New gateway:		Add]	
☐ Installed gateway	ys:	<u>R</u> emov	/e	
		ОК		Cancel

c. Choose *Disable DNS* in the *DNS Configuration* tab.

TCP/IP Properties		? ×
Bindings DNS Configuration	Advanced Gateway WINS Cor	NetBIOS nfiguration IP Address
© Disable DNS C Enable DNS		
Host:	D <u>o</u> main:	
DNS Server Sea		<u>A</u> dd <u>R</u> emove
Domain Suffix Se	arch Order	Add
		Remove
	0	IK Cancel

- B. Configure IP manually
 - a. Select *Specify an IP address* in the *IP Address* tab. The default IP address of this product is 192.168.123.254. So please use 192.168.123.xxx (xxx is between 1 and 253) for *IP Address* field and 255.255.255.0 for *Subnet Mask* field.

TCP/IP Properties		? ×					
Bindings	Advanced	NetBIOS					
DNS Configuration	Gateway WINS Conf	iguration IP Address					
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.							
_	C Obtain an IP address automatically						
Specify an IP	address:						
IP Address:	192.168.123	3.115					
S <u>u</u> bnet Mas	k 255.255.255	5.0					
	01	K Cancel					

b. In the *Gateway* tab, add the IP address of this product (default IP is 192.168.123.254) in the *New gateway* field and click *Add* button.

CP/IP Properties				?)
Bindings	Adv	anced	1	VetBIOS
DNS Configuration	Gateway	WINS Confi	guration	IP Address
The first gateway ir The address order machines are used	in the list wi			
<u>N</u> ew gateway: 192.168.1	23.254	Add]	
- Installed gateway	JS:	<u>R</u> emov	/8	
		OK		Cancel

c. In the *DNS Configuration* tab, add the DNS values which are provided by the ISP into *DNS Server Search Order* field and click *Add* button.

TCP/IP Properties		? ×
Bindings DNS Configuration	Advanced Gateway WINS Cor	NetBIOS figuration IP Address
C Disable DNS		
Host: MyComputer Domain:		
	.192.1	Add
168.95.1.1		Remove
Domain Suffix Search Order		
		Add
		Remove
	0	IK Cancel