2-Port Wireless Bridge/AP with Print Server

User Guide

Before operating the unit, please read this manual thoroughly, and retain it for future reference.





FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against radio interference in a commercial environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instructions in this manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interference.

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.

Contents

CHAPTER 1 INTRODUCTION	1
1.1 Functions and Features	1
1.2 Packing List	2
CHAPTER 2 HARDWARE INSTALLATION	3
2.1 Panel Layout	3
2.2 Procedure of Hardware Installation	4
CHAPTER 3 GENERAL CONFIGURATION	6
3.1 Log in and Start up	6
3.2 Inspect System Information	6
3.3 Tool Box	7
3.4 Primary Setup	8
CHAPTER 4 CONFIGURE AS A BRIDGE	11
4.1 Bridge Configuration	11
4.2 Create a Bridge Network Environment	12
CHAPTER 5 DHCP SERVER	13
CHAPTER 6 PRINT SERVER	15
6.1 Configuring on Windows 95/98/ME Platforms	15
6.2 Configuring on Windows 2000/XP Platforms	17
CHAPTER 7 SOFTWARE INSTALLATION	18
Appendix A TCP/IP Configuration for Wireless Windows 95/98/ME/20	00/XP21

Chapter 1 Introduction

Congratulations that you purchase an outstanding Wireless Bridge. This product is a transceiver that connects two or more remote network into a single LAN and can act as a center point of a standalone wireless network or as the connection point between wireless and wired network. This product can also be used as a rugged access point, providing network access to wireless client devices. It provides a solution for building a LAN environment and sharing resources with or without wire. This bridge/access point uses a browser-base management system. The system settings are on web pages. Before you install and use this product, please read this manual carefully for fully functions of this product.

1.1 Functions and Features

• 2 in 1 wireless bridge or access point

2-in-1 integrated function, flexibility and cost effective.

• Point-to-point, Multipoint-to-multipoint connectivity

Lets users transfer information between two or multiple buildings across the area

• Excellent range with antenna options

Provide wireless links up to 25km (16 miles) using antennas and boosters.

• High speed for wireless LAN connection

11Mbps data rate by incorporating Direct Sequence Spread Spectrum (DSSS).

• Roaming

Provides seamless roaming within the IEEE 802.11b WLAN infrastructure.

• IEEE 802.11b compatible

Allowing inter-operation among multiple vendors.

Auto fallback

11M, 5M, 2M, 1M data rate with auto fallback.

• Auto-sensing Ethernet Switch

Equipped with a 2-port auto-sensing Ethernet switch.

• Printer sharing (Optional)

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

• 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.

• MAC Address Access Control supported

Allows you to assign different access right for different users.

• Firmware Upgradable

Provides firmware upgrade via Web Browser or Windows Application.

1.2 Packing List

- Wireless Bridge/Access Point unit
- Installation CD
- Power adapter
- Cross over Fast Ethernet cable
- Rubber Antenna

Chapter 2 Hardware Installation

2.1 Panel Layout

2.1.1 Front Panel

	POWER	t			
	•		•	Link/Act.	Wireless Access point
RESET	•	٠	٠	0 10/100	
	M 1	W. LAN	1	2	

Figure 2-1 Front Panel

LED:

LED	Function	Color	Status	Description
POWER	Power indication	Green	On	Power is being applied to this product.
M1	System status 1	Orange	Blinking	This product is functioning properly.
WLAN	Wireless activity	Green	Blinking	Sending or receiving data via wireless
Link/Act. 1~2	Link status	Green	On	An active station is connected to the corresponding LAN port.
			Blinking	The corresponding LAN port is sending or receiving data.
10/100	Data Rate	Green	On	Data is transmitting in 100Mbps on the corresponding LAN port.

Port:

То	reset system	settings to	factory defaults.	please	follow the steps:

RESET

Power off the device,
 Press the reset button and hold,

3. Power on the device,

4. Keep the button pressed about 5 seconds,

5. Release the button,

6. Watch the M1 LED, it will flash 8 times and then M1 flash once per second.

2.1.2 Rear Panel



Figure 2-2 Rear Panel

Port	Description
12VDC	Power inlet: DC 12V, 1.5A (minimum)
Port 1-2	The ports where you will connect networked computers and other devices.
PRINTER	Printer Port (Optional)
Antenna	Connect with antenna (Omni-directional or Directional)

2.2 Procedure of Hardware Installation

1. Decide how to place this product and antenna

Because this product is a radio device works in the 2.4 GHz frequency range. For optimum utilization, install this product away from microwave ovens or other devices, operating in the 2.4 GHz frequency range, which can cause signal interference. Otherwise, install this product's antenna in an area where the trees, buildings and large steel structures such as file cabinet and bookshelves do not obstruct the signal to and from the antenna. The antenna should be located for the direct line-of-sight space.

2. Connecting the Antenna

This product provides a TNC antenna connector on the rear panel. Use the proper cable to connect this product and antenna.

3. Setup LAN connection

- **a.** Wired LAN connection: connect an Ethernet cable from your computer's Ethernet port to one of the LAN ports on this product's rear panel. Repeat the process to connect other computers to this product. If you need to connect more than two computers to this product, use a 10/100 Fast Ethernet switch (preferred) or hub and connect the Ethernet cable from the AP to the switch/hub's UPLINK port. You may need a switch/hub, which include UPLINK feature. This product supports up to 253 network computers and devices.
- **b.** Wireless LAN connection: locate this product at a proper position to gain the best transmission performance.

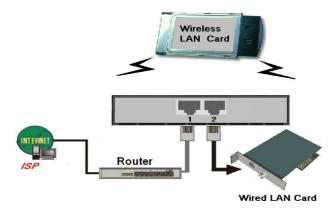


Figure 2-3 Setup of LAN connections for this product

Note: If an UPLINK port is not available, simply connect a cross-over Ethernet cable from the AP to the switch/hub.

4. Connect this Product to the Printer

Use the printer cable to connect the printer to the printer port of this product. (Optional)

5. Power

Connect the power code to the power outlet and turn on the power switch. This product will enter the self-testing status automatically. In this phrase, the indicator M1 will light on for about 10 seconds, and then the M1 will flash 3 times to represent that the self-testing has been finished. Eventually, the M1 indicator will flash once per second to stand for this product is in normal operation.

Chapter 3 General Configuration

3.1 Log in and Start up

This product provides a web based configuration scheme, make possible to configure by web browser such as Netscape Communicator or Internet Explorer.

- 1. Start the web browser, and *disable the proxy* or *add the IP address of this product into the exceptions of Proxy setting*. Then, type this product's IP address (the default setting is **192.168.123.254**) in the *Location* (for Netscape) or *Address* (for IE) field and press ENTER.
- 2. You will see the web user interface after the connection is established. To log in as an administrator, enter the system password (the default setting is" *admin* ") in the *System Password* field and click on the Log in button. If the password is correct, the web appearance will change to Administrator's Main Menu.

3.2 Inspect System Information

Check system information with click the System Info in Administrator's Main Menu.

- A. Network ID (SSID): The current setting of SSID
- B. Firmware Version: The current firmware version on this device
- C. MAC Address: The MAC address of this device
- **D.** *Printer*: The possible kinds of printer status include "*Ready*", "*Not ready*", "*Printing*...", and "*Device error*".

j <u>E</u> ile <u>E</u> dit ⊻iew F <u>s</u>	vorites <u>T</u> ools <u>H</u> elp Multi-Functional Wirel	ess Access Point	*
Administrator's Main Menu		System Info	
System Info	Item	Info	
Toolbox	Network ID (SSID)	default	
Duinsour Statum	Firmware Version		
Primary Setup	MAC Address FF-FF-FF-FF-FF		F-FF
DHCP Server	Wireless Status	Ready	
Log out			
Log out	Item	Peripheral Status	Sidenote
	Printer	Not ready	
	Help Refresh Display	y time: Thursday, May 31, 2001 é	5:11:57 PM

Figure 3.1

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

3.3 Tool Box

This option enables you to change the administrator password.

There are some useful buttons in this page:

View Log	View the system logs
Reboot	Reboot this device
Backup Setting	You can backup your settings by clicking this button and save it as a bin file. Once you want to restore these settings, please click Firmware Upgrade button and use the bin file you saved
Reset to Default	Reset the settings of this device to the default values
Firmware Upgrade	Prompt the administrator for a file and upgrade it to this device

Note: we strongly recommend you to change the system password for security reason.

	eless Access Point Web-Console - Microsoft Internet Explorer	×
	Multi-Functional Wireless Access Point	
Administrator's Main Menu	Toolbox	
 <u>System Info</u> 	Change Administrator's Password	
 <u>Toolbox</u> <u>Primary Setup</u> 	Old Password	
 DHCP Server 	Reconfirm OK Clear	
Log out	Miscellaneous Commands	
	View Log Reboot Backup Setting	
	Reset to Default Firmware Upgrade Help	

Figure 3.2

3.4 Primary Setup

	Multi-Functio	nal Wireless Access Point (R.1.93s)	
Administrator's Main Menu	Primary Setup		
System Info	Item	Setting	
<u>Toolbox</u>	▶ IP Address ▶ Mode	192.168.123.254	
Primary Setup	Network ID(SSID)	default	
DHOP Server	 Channel WEP Security 	O Disable WEP Enable IEEE 64 bit Shared Key security Enable IEEE 128 bit Shared Key security	
	⊙ WEP Key 1 ○ WEP Key 2 ○ WEP Key 3 ○ WEP Key 4		
	Save Undo MAC Address Control	Help	

Figure 3.3

This option is primary to enable this product to work properly.

1.IP Address: the IP address of this device.

2.*Mode*: the operating mode of this device. The default mode is "Bridge", which is the normal operation mode of a Bridge. Users can change it to the "AP" mode if you want this product to work as a **wireless access point**.

▶ Mode	AP 💌
▶ Network ID(SSID)	AP
dby and the second s	Bridge
▶ Channel	6



- **3.Network ID (SSID)**: Network ID is used for identifying the Wireless LAN (WLAN). Client stations can roam freely over this product and other Access Points that have the same Network ID. (The factory setting is "*default*"). Note: This item won't take effect in "Bridge" mode.
- *4.Channel*: The radio channel number. The permissible channels depend on the Regulatory Domain.

The factory setting is as follows:

USA/Canada	Channel 6
Europe/Australia (ETSI)	
Japan (All)	
Spain, France	Channel 10
Japan	Channel 14

- **5.** *WEP Security*: Select the data privacy algorithm you want. Enabling the security can protect your data while it is transferred from one station to another. The standardized IEEE 802.11 WEP (64-bit or 128-bit) is used here.
- 6. WEP Key 1, 2, 3 & 4: After enable the 64-bit or 128-bit WEP key security, please select one WEP key to be used in default setting and then input 10 or 26 hexdecimal (0-9, A-F) digits.
- 7. MAC Access Control: Setup MAC addresses to control which wireless clients can associate to the wireless LAN and this device or connect to this device.

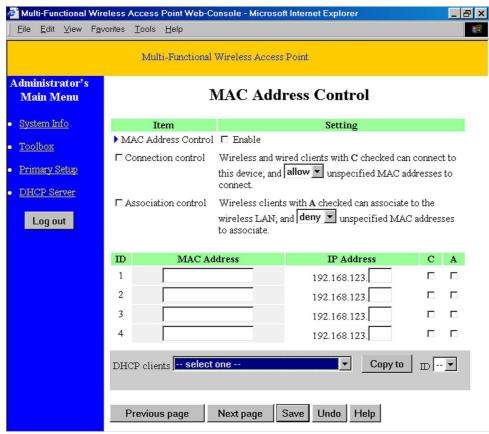


Figure 3.5

MAC Address Control allows only client devices with specified MAC addresses to associate and pass data through this device.

MAC Address Control	Check "Enable" to enable the "MAC Address Control". All of the settings in this page will take effect only when "Enable" is checked.
Connection control	Check "Connection control" to enable the controlling of which wired and wireless clients can connect to this device . If a client is denied to connect to this device, it means the client can't access to the Internet either. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table" (please see below), to connect to this device.

- Association control Check "Association control" to enable the controlling of which wireless client can associate to the wireless LAN. If a client is denied to associate to the wireless LAN, it means the client can't send or receive any data via this device. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table", to associate to the wireless LAN.
- *Control table* "Control table" is the table at the bottom of the "MAC Address Control" page. Each row of this table indicates the MAC address and the expected IP address mapping of a client. There are four columns in this table:

MAC Address	MAC address indicates a specific client.
IP Address	Expected IP address of the corresponding client. Keep it empty if you don't care its IP address.
С	When " Connection control " is checked, check " C " will allow/deny the corresponding client to connect to this device.
A	When "Association control" is checked, check "A" will allow/deny the corresponding client to associate to the wireless LAN.

In this page, we provide the following Combobox and button to help users to input the MAC address.

 Copy to 	D 💽	
	💌 🛛 Copy to	💌 Copy to 🔟 💌

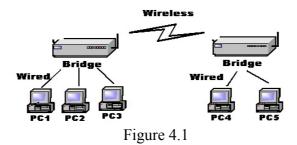
Figure 3.6

Select a specific client in the "DHCP clients" Combobox, and then click on the "Copy to" button to copy the MAC address of the client you select to the ID selected in the "ID" Combobox.

Previous page and **Next Page** To make this setup page simple and clear, we have divided the "Control table" into several pages. You can use these buttons to navigate to different pages.

Chapter 4 Configure as a Bridge

Two of these devices have capability to communicate with each other when these two devices are working in the "Bridge" Mode. Users can connect two or more wired LANs together via wireless connection with wireless bridge function. The connection is as follows:



Note: This device can't be a wireless AP when it has been operated as a wireless bridge. *This means there is no wireless client can make the connection to this device when it's in the "Bridge" mode.*

4.1 Bridge Configuration

- 1. Login this device with the administrator's password as "admin" (default).
- 2. Select Primary Setup.
- 3. In the Primary Setup page, make sure the Mode is Bridge.
- 4. Enter the address into IP Address field which is in the same subnet with your network environment.
- 5. Set the "Channel" of this device and another one which you want to connect in the same channel.
- 6. Save the settings above and then reboot this device.

Multi-Functional Wireless Access Point (R1 93s)					
Administrator's Main Menu	Primary Setup				
 <u>System Info</u> 	Item	Setting			
Toolbox	▶ IP Address	192.168.123.254			
	▶ Mode	Bridge 💌			
Primary Setup	 Network ID(SSID) 	default			
DHCP Server	Channel	6 🛩			
	WEP Security	⊙ Disable WEP			
Log out	*2	○ Enable IEEE 64 bit Shared Key security			
		○ Enable IEEE 128 bit Shared Key security			
	⊙ WEP Key 1				
	🛇 WEP Key 2				
	○ WEP Key 3				
	🔘 WEP Key 4				
	Save Undo MAC Address Control	Help			

4.2 Create a Bridge Network Environment

The bridge supports external antennas with omni-directional or directional capabilities. Omni-directional antennas are suited for systems requiring a signal distribution in more than one direction. High-gain directional antennas are best suited for longer coverage range in a fixed direction.

Due to the differences in placement and physical environment, every network application has their unique installation. Before installing multiple bridges, you should implement a testing of each site to determine the optimum networking components and to maximize coverage range and network performance.

Think about the operating and environmental conditions of following when implement this testing:

- Throughput of Data Coverage range is inversely proportional to data rates. The maximum radio range is achieved at the lowest workable data throughput.
- Antenna type and placement The coverage range is increasing by the antenna's height and gain. For this reason, proper antenna configuration is a critical factor in maximizing coverage range. The recommended combination of antenna/cable/booster for various ranges is as following:

Range		3km		4	4~10km	1	1	1~18kr	n	1	9~25kr	n
Cable	1M	3/5M	10M	1M	3/5M	10M	1M	3/5M	10M	1M	3/5M	10M
Antenna gain (dBi)	12	12~18	18	12	12~18	18	12	12~18	18~20	20	12~21	18~21
Booster	None	None	None	0.5W	0.5W	0.5W	1W	1W	1W	1W	5W	5W

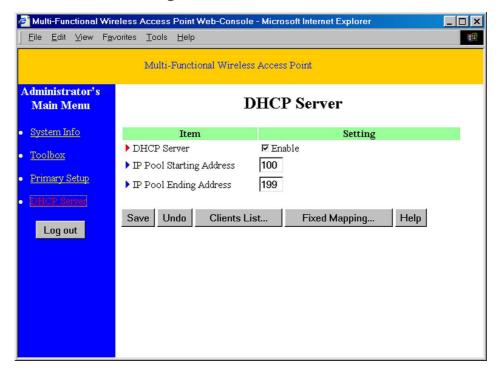
• Physical environment and Obstructions - Open areas provide better coverage range than closed areas. Also, the obstructer such as steel buildings or trees can block or decrease communication between bridges. To avoid this situation, the antennas should be located in where is no or few obstruction between the sending and receiving antennas.

Network Configurations



Figure 4.2

Chapter 5 DHCP Server



Dynamic Host Configuration Protocol (DHCP) is a TCP/IP standard for simplifying management of host IP configuration. The DHCP standard provides for the use of DHCP servers as a way to manage dynamic allocation of IP.

Every computer on a TCP/IP network must have a unique computer name and IP address. The IP address (together with subnet mask) identifies both the host computer and the subnet to which it is attached. When you move a computer to a different subnet, the IP address must be changed. DHCP allows you to dynamically assign an IP address to a client from a DHCP server IP address database on your local network

The settings of a TCP/IP environment of include host IP, Subnet Mask, Gateway, and DNS configurations. For TCP/IP-based networks, DHCP reduces the complexity and amount of administrator work involved in reconfiguring computers.

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**: Check "*Enable*" to enable the DHCP server function. All the settings in this page will take effect only if "Enable" is checked.
- 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.

Clients List List the current mapping of the IP and MAC address for each DHCP client.

Fixed Mapping In general, DHCP server assigns an IP address chosen from the IP addresses pool randomly. **Fixed Mapping** allows you to assign a specific IP address to the specified MAC address.

Chapter 6 Print Server

This product provides the function of network print server for MS Windows 95/98/NT/2000/XP, Linux and Unix based platforms.

6.1 Configuring on Windows 95/98/ME Platforms

After finished the software installation procedure described in Chapter 7, the computer has ability to print via this product. For convenience, we call the printer connected to the printer port of this product as *printer server*. To configure this printer server on a Windows 95/98/ME platform, please refer to the following steps.

1. Open the *Printers* window in the *My Computer* dialogue window.



2. Find out the corresponding icon of your server 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)
Comment:
Separator page: (none)
Print <u>I</u> est Page
OK Cancel Apply Help

3. Select the *Details* item.

IP LaserJet 6L (PCL) Properties	3	21 ×
General Details Sharing Paper	Print Quality Fonts Device Options	
HP LaserJet 6L (PCL)		
Print to the following port:		
PRTmate: (All-in-1)	Add Port	
Print using the following driver:	Delete Port	
HP LaserJet 6L (PCL)	Ne <u>w</u> Driver	
Capture Printer Port	End Capture	
- Timeout settings		
Not selected: 15	seconds	
Transmission retry: 45	seconds	
Spool Se	ttings Port Settings	
OK	Cancel <u>Apply</u> Help	

- 4. Choose the "PRTmate: (All-in-1)" from the list attached at the *Print To the following port* item. Ensure that the *Print using the following driver* item is configured to the correct driver of this *printer server*.
- 5. Click *Port Settings*. Type the IP address of this product and then click the *OK* button.

Printer Position	×
Enter the Product's IP :	ОК
192.168.123.254	Cancel

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

6.2 Configuring on Windows 2000/XP Platforms

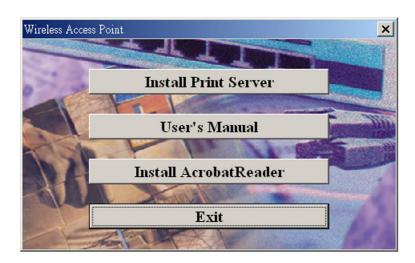
The configuration procedure for a Windows 2000/XP platform is similar to that of Windows 95/98/ME except of the printer *Properties*.

Compare to the procedure for the setting of windows 95/98/ME, the selection of *Details (windows 95/98/ME)* is equivalent to the selection of *Ports (windows 2000/XP)*, and *Port Settings (windows 95/98/ME)* is equivalent to *Configure Port (windows 2000/XP)*.

爹 HP LaserJet 6L	Properties		? ×
General Sharing F	Ports Advanced Secur	ity Device Settings	
	Jet 6L port(s). Documents will prin	it to the first free	
checked port.	Description	Printer	
СОМ1:	Serial Port		
🗆 сом2:	Serial Port		
СОМЗ:	Serial Port		
COM4:	Serial Port		
FILE:	Print to File		
PRTmate	Local Port	HP LaserJet 6L	•
Add Por <u>t</u>			
	ОК	Cancel Ap	ply

Chapter 7 Software Installation

1. Insert the installation CD-ROM into the CD-ROM device. The following window will be shown automatically. If it isn't, please run "**install.exe**" in the CD-ROM.



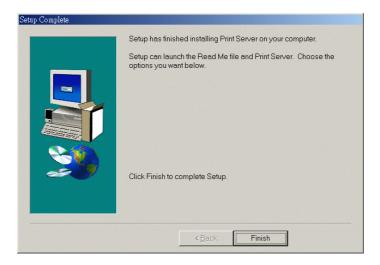
2. Click the *INSTALL* button. Wait until the following *Welcome* dialogue appears, and click the *Next* button.



3. Select the destination folder and click the *Next* button. Then, the setup program will begin to install this program into the computer.

Choose Destination Location		×
	Setup will install Print Server in the following folder.	
	To install to this folder, click Next.	
	To install to a different folder, click Browse and select another folder.	
	You can choose not to install Print Server by clicking Cancel to exit Setup.	
	Destination Folder	7
	C:\\Broadband Router\Print Server Browse	
	< Back Next > Cancel	

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



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

reboot
To make broadband router workable for you, please remember rebootingyour computer
Yes, I want to restart my computer now O No, I will restart my computer later.
ОК

6. After rebooting your computer, you can configure this device (refer to Chapter 4) and setup the Print Server (refer to Chapter 6).

Appendix A TCP/IP Configuration for Wireless Windows 95/98/ME/2000/XP

This chapter will introduce how to install the TCP/IP protocol in the personal computer and using the TCP/IP setting to connect this device correctly.

A.1 Configure Windows 95/98/ME Platforms for working with this device

- 1. Connect this device to a computer by general network cable.
- 2. On the Windows 95/98/ME Platforms, click *Start* button and choose *Settings*, then click *Control Panel*.
- 3. Double click *Network* icon and select *Configuration* tab in the Network window.
- 4. Click Add button to add network component into your PC.

Network ?X
Configuration Identification Access Control
The following <u>n</u> etwork components are installed:
PCI Fast Ethernet DEC 21140 Based Adapter
NetBEUI -> Dial-Up Adapter NetBEUI -> PCI Fast Ethernet DEC 21140 Based Adapter
TCP/IP -> Dial-Up Adapter
TCP/IP -> PCI Fast Ethernet DEC 21140 Based Adapter
📮 File and printer sharing for Microsoft Networks 📃 📃
Add Remove Properties
Primary Network Logon:
Client for Microsoft Networks
Eile and Print Sharing
Description
TCP/IP is the protocol you use to connect to the Internet and wide-area networks.
OK Cancel

5. Double click *Protocol* to add TCP/IP protocol.

Select Network Component Type	? ×
Click the type of network component you want to install:	
📃 Client	<u>A</u> dd
Adapter	
Y Protocol	Cancel
Service	
Protocol is a 'language' a computer uses. Computers must use the same protocol to communicate.	
10 -	

6. Select *Microsoft* item in the *manufactures* list. Then choose *TCP/IP* in the

Network Protocols list. Click **OK** button to return to Network window.

Select Network Protocol	
	otocol that you want to install, then click OK. If you have r this device, click Have Disk.
<u>M</u> anufacturers:	Network Protocols:
🗿 Banyan	Fast Infrared Protocol
IBM IBM	FIPX/SPX-compatible Protocol
Y Microsoft	Microsoft 32-bit DLC
	Microsoft DLC
	VetBEUI
1	
	Have Disk
	OK Cancel

- 7. 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.
- 8. After rebooting, click *Start* button and choose *Settings*, then click *Control Panel*.
- 9. 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.
- 10. Click *Properties* button to set the TCP/IP protocol for this device.

Network ? 🗙
Configuration Identification Access Control
The fellowing actually compared and installed
The following network components are installed:
PCI Fast Ethernet DEC 21140 Based Adapter
Figure 1 -> PCI Fast Ethernet DEC 21140 Based Adapter
TCP/IP -> Dial-Up Adapter
TCP/IP -> PCI Fast Ethernet DEC 21140 Based Adapter
Add R <u>e</u> move Properties
Primary Network Logon:
Client for Microsoft Networks
<u>File and Print Sharing</u>
Description
TCP/IP is the protocol you use to connect to the Internet and wide-area networks.
DK Cancel
UN Lancel

11. 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 DNS Configuration 0	Advanced Gateway WINS Confi		etBIOS IP Address	
If your network does	e automatically assigne not automatically assig strator for an address, a	n IP addr	esses, ask	×
○ <u>O</u> btain an IP at	ddress automatically ddress:			
<u>I</u> P Address:	192.168.123	1.115		
S <u>u</u> bnet Mask:	255.255.255	i. 0		
	10		Cancel	

- 12. In the *Gateway* and *DNS* tab, do not put anything.
- 13. Click OK button to finish the TCP/IP setting and restart the computer.

A.2 Configure Windows 2000/XP Platforms for working with this device

- 1. After complete installation the windows 2000/XP, the system will automatically install the TCP/IP protocol.
- 2. Connect this device to a computer by general network cable.
- 3. On the Windows 2000/XP platform, right click *My Network Places* on the desktop then select *Properties*.
- 4. In the *Network Connections* dialogue window, right click the network connection icon of *Wireless LAN PC Card* and select *properties*.

S Network Connections		
File Edit View Favorites To	ls Advanced Help	
🔇 Back 🕤 🕤 🕘 🏂 🔎 Sea	h 🌔 Folders 🔛 🛛	
ddress 🔇 Network Connections		🔽 🋃 Go
	A LAN or High-Speed Internet	
Network Tasks 🛛 🛞		
🔄 Create a new	Local Area Connection	on 2
connection Set up a home or small		Wireless Networks
office network	Status	WI CICSS NECTIONS
Disable this network device	Repair	
🍇 Repair this connection	Bridge Connec	tions
Rename this connection	Create Shortcr	ut
View status of this connection	Delete	
Change settings of this connection	Rename	
Connection	Properties	
Other Places		
Control Panel My Network Places		
My Documents		
My Computer		
Details 🛞		
Local Area Connection 2		
Enabled	00	
IP Address: 192.168.1.12	*	

5. In the *General* tab, choose *Internet Protocol (TCP/IP)* and click the *properties* button.

ieneral W	'ireless Networks	Authentication	Advanced	
Connect us	sing:			
💵 Wire	less LAN PC Ca	rd		
			Configu	
This conne	ction uses the fo	llowing items:	Coninga	10.57
100000000000000000000000000000000000000	wLink NetBIOS	morning norno.		~
0		/NetBIOS Compat	ible Transport P	Prot
	ternet Protocol (ible mansport	100
	dentes i reserve (
				~
<		1015		>
	all	Uninștall	Propertie	
<			Propertie	
Insta Descriptio Transmis wide are	on ssion Control Pro	Uninstall tocol/Internet Prot col that provides c	ocol. The defa	es.
Insta Descriptic Transmis wide are across d	on ssion Control Pro a network protoc liverse interconn	Uninstall tocol/Internet Prot col that provides c ected networks.	ocol. The defa ommunication	es.
Insta Descriptic Transmis wide are across d	on ssion Control Pro a network protoc liverse interconn	Uninstall tocol/Internet Prot col that provides c	ocol. The defa ommunication	es.

- 6. In the *General* tab, select *Use the following IP address* and set a IP address which is in the same subnet with this product(default is 192.168.123.254).
- 7. Do not put anything in the *Default gateway* and *DNS* field.

	automatically if your network supports ed to ask your network administrator for		
🔿 Obtain an IP address autom	atically		
Use the following IP addres	s:		
IP address:	192 . 168 . 123 . 11		
Subnet mask:	255 . 255 . 255 . 0		
Default gateway:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Obtain DNS server address	automatically		
Ose the following DNS serv	er addresses:		
Preferred DNS server:	a 12 33		
Alternate DNS server:			

8. Click the **OK** button to complete TCP/IP setting.