Users Manual SX

This manual provides complete information on how to setup and Use PRICOM. Follow the manual corresponding to your network operation to realize network printing.

Explanation on Online Manual

This manual uses the following symbols to point out specific information. These symbols provide you with additional tips.

TIP

-Information after this mark explains the important points you need to regard when operating the product. Be sure to read the explanation for safe and proper usage.

NOTE

-Information after this mark gives you additional information to help you with the setup. Refer to the explanation when you have difficulties operating the product.

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Safety Instruction

For safe and proper usage, please read the following information carefully.
The contents include how to handle the product and general issues for user's safety.

IMPORTANT SAFEGUARDS

Make sure to read all safety instructions carefully and to fully understand them before using our products.

This manual contains the safety instructions that must be observed to avoid potential hazards that could result in personal injuries or damages. The safety instructions have been classified according to the potential risk involved as follows.

Danger:
"Danger" indicates the existence of a hazard that could result in death or serious bodily injury if the safety instruction is not observed.

Warning:
"Warning" indicates the existence of a hazard that could result in bodily injury if the safety instruction is not observed.

Caution:
"Caution" indicates the existence of a hazard that could result in property damage if the safety instruction is not observed.

Notice:
"Notice" contains general information that relates to the safe operation of the computer.

1. PRICOM

Warning:
To avoid the risk of electric shock or possible damage, never remove the cover of PRICOM and never disassemble PRICOM. Contact the dealer of silex technology products for assistance if repair or adjustment is necessary.

2. POWER SUPPLY

Danger:
Never attempt to disassemble or repair an power supply, as exposure to electric shock hazards may result. Always contact the dealer of silex technology products if repair or replacement is required.

Warning:
Always use the power supply provided with PRICOM to avoid any risk of fire or other damage to the computer. Using an unauthorized and incompatible power supply, in violation of this warning, could result in bodily injury or property damage.

Caution:
Never bend or twist the power cord, and never pull on the power cord in an attempt to remove the plug from the socket. Never place heavy objects on the power cord, as this could result in damage to the cord. Always grasp the plug directly when unplugging the power cord to avoid causing any damage to the cord.

3. NETWORK CABLES

Danger:
Never use damaged or worn network cables. The use of damaged or worn network cables could result in electric shock, burns or fire.

4. PROPER TREATMENT OF THE DEVICE

Warning:
To avoid any risk of short-circuit, fire or other internal damage, never allow any metal objects such as screws or paper clips to fall into the device. If that should happen, immediately turn off the power and unplug the power cord. Contact the dealer of silex technology products for appropriate assistance. To avoid damage to PRICOM, never allow any liquids to spill into any part of PRICOM, and never expose PRICOM to rain or water. If any of these events should occur, turn off PRICOM immediately.

Contact the dealer of silex technology, Inc. products for assistance before attempting to use PRICOM again. To prevent computer malfunction or equipment damage, never place PRICOM on top of (or adjacent to) a heating device, and never expose it in direct sunlight. Never store PRICOM in a locked and unventilated vehicle, (where excessive internal temperatures may be encountered). Always unplug the power cord during lightning storms in order to protect the device from possible damage as a result of a power surge. If PRICOM is ever dropped and damaged, or if you ever detect the emission of an extraordinary odor or excessive heat, unplug the power cord and turn off the printer and PRICOM immediately. Contact the dealer of silex technology, Inc. products for appropriate assistance.

Notice:
If PRICOM has been exposed to cold temperature, allow it to warm to room temperature before turning on. This will prevent the occurrence of harmful condensation within the device (this is a particularly important concern when the device is being used in cold climates). Avoid using PRICOM in dusty areas since dust particles can affect the reliability of PRICOM. Contact the dealer of silex technology products if your device has become contaminated with dust or dirt particles.

Overview

Thank you for purchasing our product this time. This manual provides complete information on how to configure and use PRICOM.
This manual is edited commonly for several products and there are some parts not applied for your use.

Latest Information on PRICOM

Following services are available via our web site. You can get more information at http://www.silex.jp/

-Latest firmware download
-Latest configuration utility download
-Latest manual download
-Supported printers information
-FAQ information
-New products information
-Others

Installation

This chapter explains how to install PRICOM. Follow the instructions corresponding to the network environment in use to realize network printing. Refer to the parts you need to install PRICOM.

TIP

-The following instruction may vary depending on your network environment.

NOTE

-Make sure to install printer driver to your personal computer before you start using PRICOM.

Configuration Utility

NOTE

-The below contains the explanation for PRICOM configuration. Choose an option corresponding to your network environment.

Configuration Utility	Quick Setup	Initial installation of PRICOM (Recommended)	**Chapter 3,4**
	Advanced Setup	Advanced configuration for Administrators	**Chapter 8**
	JC-Print2002	Install Printing Software and Pop-up Printer Monitor	**Chapter 3,4**

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Installation and Configuration (For Administrators)

This contains explanation for PRICOM installation and configuration.

STEP1	Connect PRICOM to printer	**Chapter 1**
STEP2	Use PRICOM in **Windows 95/98/Me**	**Chapter 3**
	Use PRICOM in **Windows NT 4.0, Windows 2000, Windows XP**	**Chapter 4**
	Use PRICOM in **UNIX/Linux**	**Chapter 5**
	Use PRICOM in **Netware**	**Chapter 6**
STEP3	Use PRICOM in **Macintosh**	**Chapter 7**

Configuration (For Clients)

This contains explanation for PRICOM configuration.

STEP1 Configuration	Use PRICOM in **Windows 95/98/ME**	**Chapter 3**
	Use PRICOM in **Windows NT 4.0, Windows 2000, Windows XP**	**Chapter 4**
	Use PRICOM in **NetWare**	**Chapter 6**
	Use PRICOM in **Macintosh**	**Chapter 7**
STEP2 Print	Test Print (Diagnostic/Configuration report) and verify the configuration	**Chaprter 1**

Advanced Configuration for Administrators

This contains explanation for PRICOM advanced configuration utility, AdminManager.

AdminManager	Configure PRICOM by **AdminManager**	**Chapter 8**
	Configure PRICOM by **Web browser**	
	Configure PRICOM by **TELNET**	

1. About PRICOM H-260/H-260U

This chapter explains PRICOM operating environment, outline and how to connect PRICOM to the network.

Features

-Supports 10BASE-T and 100BASE-TX (Auto-detection).
-“Quick Setup” is included in the bundled CD-ROM for easy configuration.
-Management utility “AdminManager” is included in the bundled CD-ROM.
-Printing software “JC-Print2002” is included in the bundled CD-ROM.
-Embedded HTTP enables you to configure PRICOM via Web browser.
-Supports multi-protocol .
-Equipped with two printer interfaces.
Supports 2 multiple printer interfaces, a USB interface as well as a Hewlett Packard’s Enhanced Input/Output (EIO) interface, which enables purposed oriented printer choice, also sharing printing workloads between the connected printers and meantime saving the printers operational costs.
-Enhanced Windows XP compatibility
NetBIOS over TCP/IP is embedded. This allows NetBIOS printing environment to be configured on the PC running on Windows XP installed as the standard OS, without additional protocol installation.
-Additional security options
IP filter function is embedded to meet the advanced security needs.
This function limits the access to PRICOM by defining specific accessible IP addresses scopes. By disabling any access from IP addresses outside the defined specific range, the printer is securely protected from unauthorized accesses.
-Supports WINS (Windows Internet Name Service) environment
The NetBIOS name resolution with an associated IP address can be registered in WINS server.

-Embedded Pop-up Printer Status Monitoring
The embedded solution can monitor and alert in your PC screen for typical printer status such as paper out or error conditions.

HP-compatibility

PRICOM supports the compatibile function of Hewlett-Packard's jetdirect print server series.This enables you to administrate via Web JetAdmin and also support jetdirect Printing Functions (Direct IPX Printing)

-Web JetAdmin-compatibility
PRICOM is compatible with Web JetAdmin and can be used for configuration and administration.
Web JetAdmin is a sophisticated network printer administration utility for use in large-scale intranet.

TIP

-PRICOM does not support all the features of Web JetAdmin.
-Refer to Web JetAdmin help option for the usage of Web JetAdmin.

-jetdirect port-compatibility
PRICOM is compatible with a HP jetdirect Port capability for peer-to-peer printing over IPX/SPX printing protocol.

Operating Environment

[Required devices to connect to network]
-Network Cable (category 5 or above in 100BASE-TX environment)
-Printer
-HUB

[Supported protocol/operating system]
<PRICOM H-260/H-260U>
-Supported protocol: TCP/IP, NetBEUI, IPX/SPX, AppleTalk
-Supported OS: Windows 95/98/Me, Windows NT 4.0, Windows 2000, Windows XP
UNIX, Linux
NetWare
Macintosh

NOTE

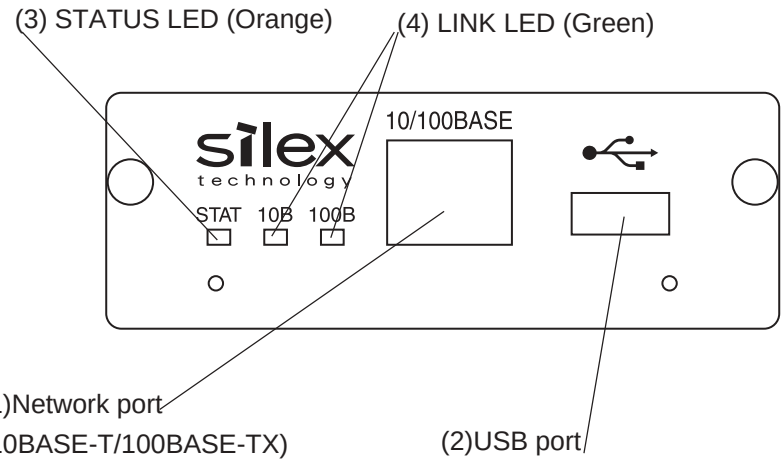
-When you use PRICOM in Macintosh environment, you need the printer driver for AppleTalk which is supplied with the printer.

Parts on PRICOM H-260/H-260U

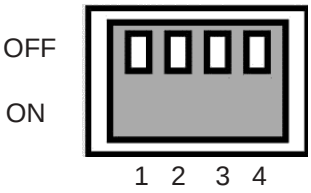
Parts and Function

TIP -The references to USB capability are applicable only for the H-260U product

Front panel



Dip Switch



(Front panel)

(1) Network Port (10BASE-100BASE-TX Auto-detection)

Connect to the network cable.

(2) USB port

Plug the USB cable.

(3)STATUS LED (Orange)

Flashes during data transfer

(4)10BASE LINK LED (Green)

Lights when a proper 10BASE network connection is established.

100BASE-TX LINK LED (Green)

Lights when a proper 100BASE-TX network connection is established.

(Dip Switch)

(5) Dip Switch

The following list describes the function of each switch.

1	OFF	Normal operating setting
2	OFF	Normal operating setting
	ON	Initialization/Reset to factory default upon power up
3	OFF	Normal operating setting
	ON	Prints Diagnostic/Configuration report upon power up
4	OFF	Normal operating setting

Dip Switch Operation

TIP

-Make sure to switch off printer when operating dip switches.
-If self-diagnostic shows you any NG, contact our customer support center.
-Diagnostic/configuration report can-not be printed depending on your printer.

<Initialization/Reset to factory default>

1. Switch off printer.
2. Switch on the dip switch No. 2.
3. Switch on printer and wait until the printer is ready for printing.
4. Switch off printer.
5. Switch off the dip switch No. 2.

<Diagnostic/Configuration report>

1. Switch off printer.
2. Switch on the dip switch No. 3.
3. Switch on printer and wait until configuration report is printed.
4. Switch off printer.
5. Switch off the dip switch No. 3.

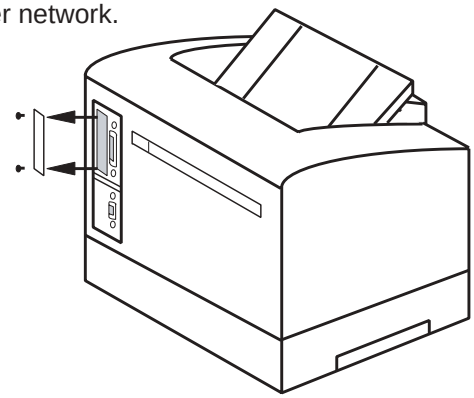
Hardware installation

Connect PRICOM to the Printer

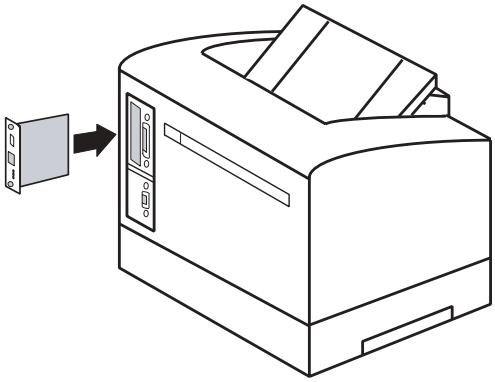
TIP

-Make sure to read the operating instructions of your printer before connecting PRICOM to the printer
for proper use.
-Make sure the power code of the printer is unplugged before attaching PRICOM to the printer.
-Prior to your installation, make sure to initialize PRICOM to factory default in case the PRICOM has been assigned with any IP address already in another network.

1. Turn off the printer power supply, unplug the power cord, and then remove the EIO interface cover in the back of the printer.

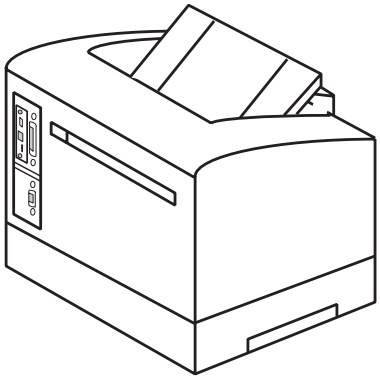


2. Insert this product along the guide into the I/O slot .



3. Make sure that the printer power supply is swithched off, and plug the power cord.

4. Turn on the printer power, and make sure that the printer starts up normally.

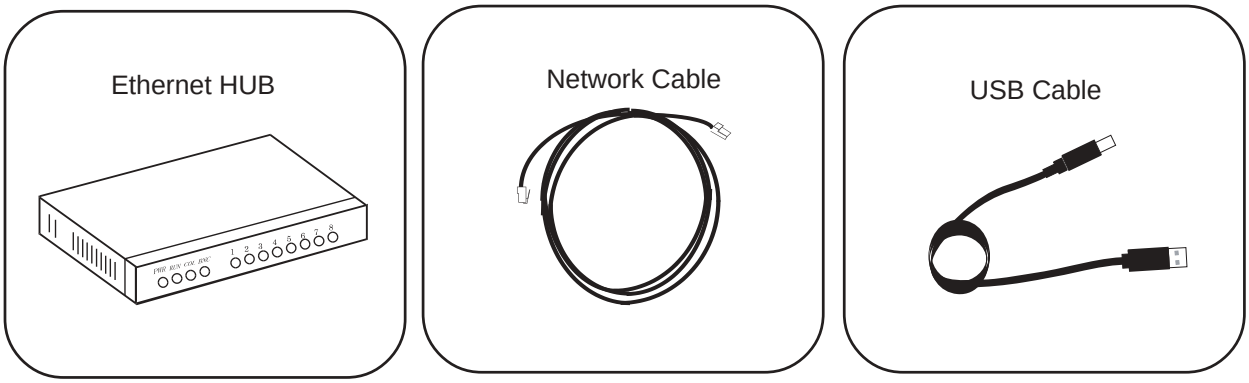


How to connect PRICOM to the network and the USB printer

The following items are required to connect PRICOM to the network.

TIP

-Prepare 100BASE supported Ethernet HUB and network cable (category 5 or above).
-You can not use PRICOM H-260/H-260U with a USB hub.



<How to connect this product to the network and the USB printer>

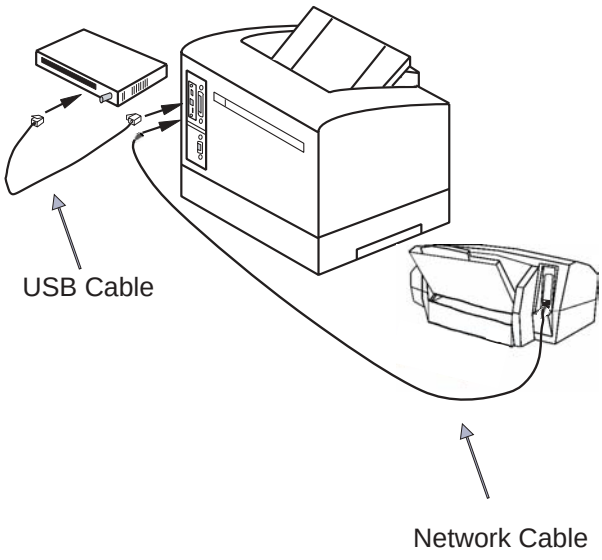
1. Switch off the printer power.

2. Connect the network cable to the network port of PRICOM.

3. Connect the other end of the network cable to the Ethernet HUB.

4. Plug the USB cable A-type into this product and plug the USB cable B-type into the printer.

5. Switch on the printer. Check the printer proper function.



2. About User Software SX

This chapter explains about User Software SX. PRICOM configuration utility and Users Manual are contained in User Software SX and can be used in Windows and Macintosh environments.

TIP

-User Software SX can not be used in UNIX/Linux and NetWare.
-PRICOM 7000 does not support Macintosh.
-Use User Software SX in a browser environment with Internet Explorer 4.0 (SP2) or above.

Use User Software SX in Windows Environment

The below screen will be executed automatically when installing User Software SX to your Windows PC.

TIP

-If the below screen does not open automatically, open the My Computer. Select the CD ROM drive and execute "autorun.exe".

-ReadMe

Click on ReadMe for important information on User Software SX. Make sure to read this information carefully before starting to use PRICOM.

-Setup

Installation wizard to be started. This leads you to install PRICOM configuration utility (Quick Setup, Advanced Setup) and printing software (JC-Print2002).

-Manual

Manual formatted in PDF file which can be viewed with Adobe Acrobat Reader.

Configuration

From the menu screen, select ***Setup,*** then the below screen will appear. Select a configuration method you want to use.

NOTE -If initial installation of PRICOM has been complete, you can start using PRICOM just by installing JC-Print2002 to your PC.

-Quick Setup (recommended for initial installation)

Initial configuration of PRICOM can be easily proceeded by interacting with the wizard. Printing software JC-Print2002 can also be easily installed in the similar way.
This is the recommended for initial installation.

- Advanced Setup

Start or install the management utility "AdminManager" which configures PRICOM in details and manages the printer.

- JC-Print2002

Install PRICOM Monitor SX and printing software that enables you to print directly from Windows environment. LPR (specific to silex products), IPP or Raw mode can be selected.

TIP -PRICOM 7000 does not support IPP or Raw mode.

-Option (Only for PRICOM supporting the enhanced features)

This button will lead you to install the configuration utility that enables the PRICOM optional functions. The utility can only be used with PRICOM supporting the enhanced features.

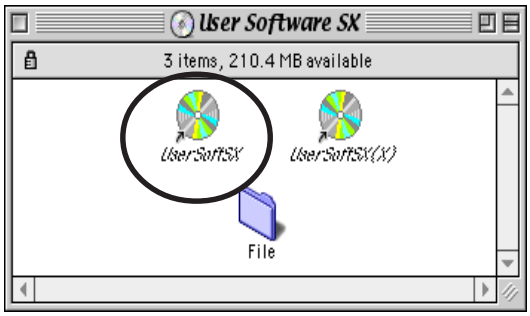
TIP -You can not use the optional functions depending on the PRICOM you use. Make sure the PRICOM is supporting the enhanced features.

Use User Software SX in Macintosh Environment

Load the User Software SX CD-ROM supplied with PRICOM to a Macintosh computer. User Software SX folder will appear. Select [UserSoftSX (X)] or [UserSiftSX] corresponding to your Mac OS to invoke the main menu.

NOTE

-PRICOM 7000 does not support Macintosh.
-When AppleTalk is used, printing can be started by connecting PRICOM to the printer. For advanced configuration, use the management utility "AdminManager" .
-If you use Mac OS X, execute [UserSoftSX (X)] to display the screen where you can select the language for your use.
-If you use Mac OS 7/8/9, execute [UserSoftSX].



-ReadMe

Click on ReadMe for important information on User Software SX. Make sure to read this information carefully before starting to use PRICOM.

-Setup

Installation wizard to be started. This leads you to install "AdminManager".

-Manual

Manual formatted in PDF file which can be viewed with Adobe Acrobat Reader.

3. Using PRICOM in Windows 95/98/Me

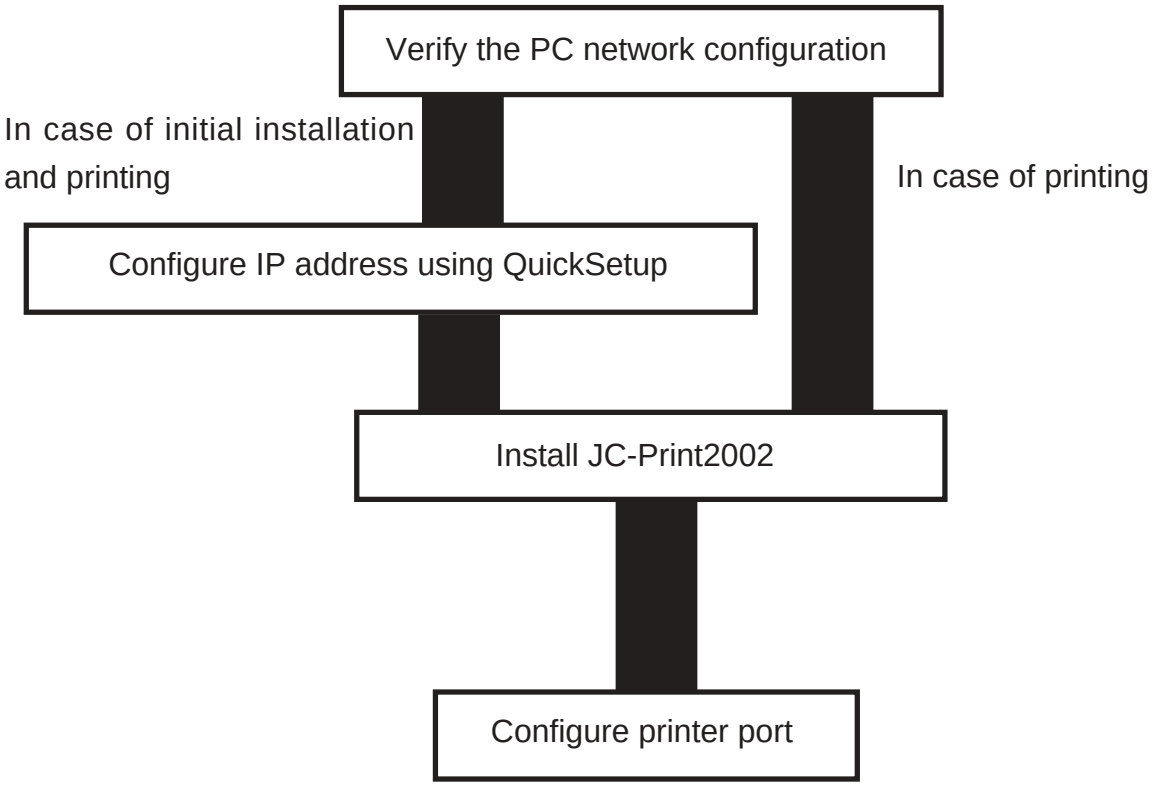
This chapter explains how to print using TCP/IP, NetBEUI and NetBIOS over TCP/IP protocol of Windows 95/98/Me.

Print Using TCP/IP of Windows 95/98/Me

Following indicates how to print using TCP/IP protocol.

TIP -You can use the USB port only on PRICOM H-260U.

NOTE -Make sure to install printer driver before you start using PRICOM.



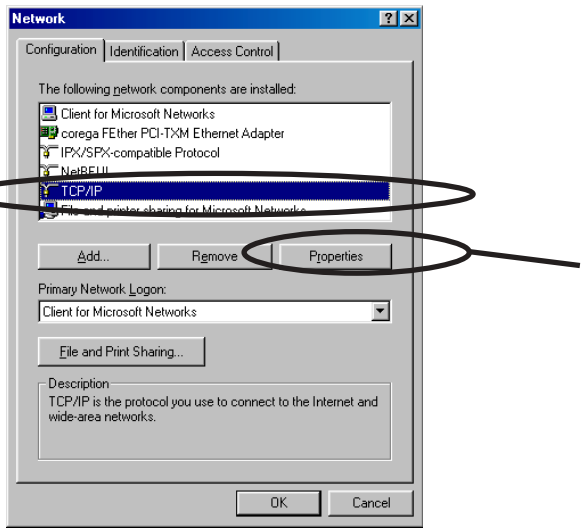
Verify the PC Network Configuration

Make sure that the ***TCP/IP*** and ***Microsoft TCP/IP Printing*** are added to the ***Services.***

1. Click ***Start***, then ***Settings***, then ***Control Panel***.

2. Double-click ***Network***.

3. Verify that ***TCP/IP*** is included in ***The following network components*** are installed.

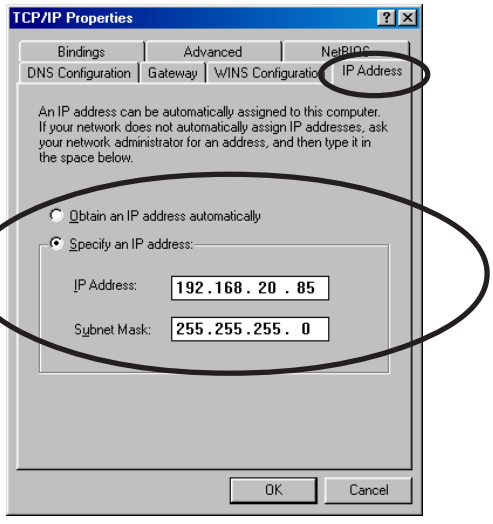


Click ***Properties.***

NOTE

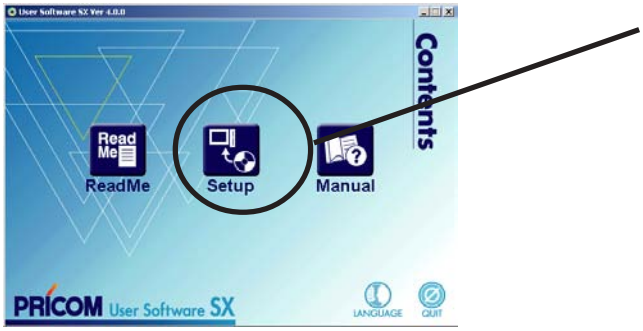
-If ***TCP/IP*** Protocol is not in ***The following network components are installed,*** click ***Add,*** then ***Network component***, then ***Protocols***, then ***Microsoft TCP/IP*** to add ***TCP/IP***.

4. Verify if the configuration is proper for your environment in ***IP Address***.



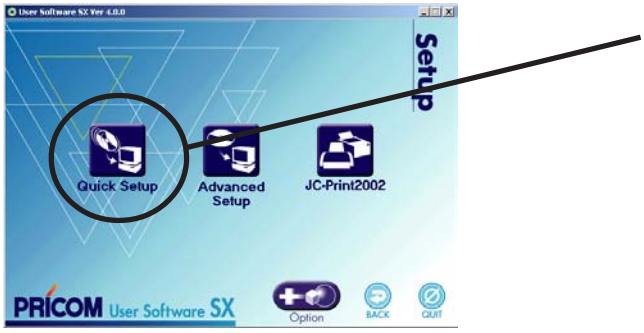
Quick Setup

1. Insert the User Software SX in the CD-ROM drive of your Windows PC. The main menu screen will be displayed.



Click ***Setup***.

2. The below screen will be displayed.

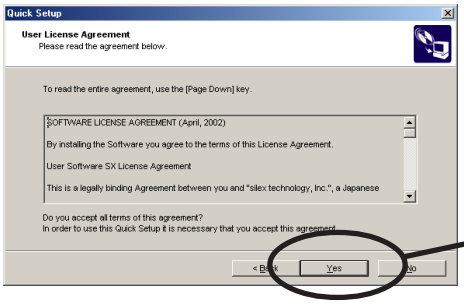


Click ***Quick Setup.***

3. Quick Setup loads.

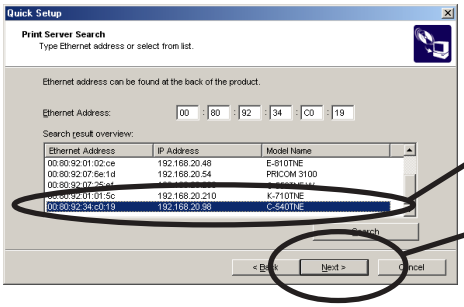
Click ***Next.***

4. Confirm the Software License Agreement.



Read the agreement and click ***Yes*** if you accept it.

5. Select PRICOM to be configured.



Select PRICOM to be configured.

Click ***Next.***

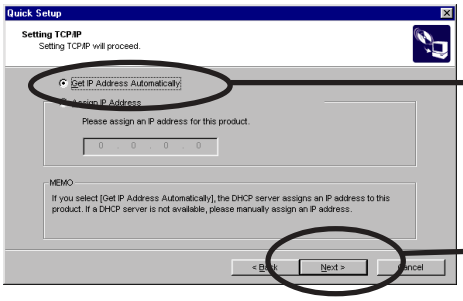
NOTE

-If the PRICOM does not appear in the list, click ***Search.***
You can search the PRICOM by typing in Ethernet address directly.

6. Assign an IP address

When you have DHCP server in your environment.

(A) Obtain an IP address from DHCP server automatically.



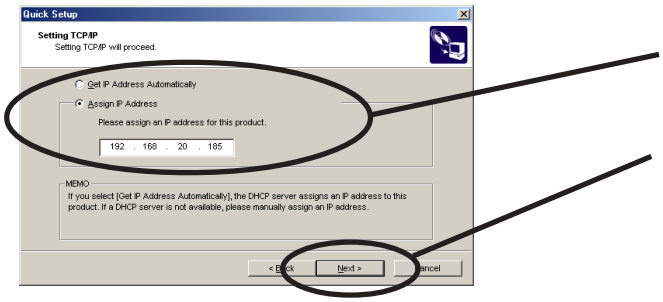
Click ***Get IP Address Automatically.***

Click ***Next***.

NOTE

-If NetWare Client is installed and PRICOM is supporting NetWare (Enable), NetWare configuration screen will appear.

(B) Assign an IP address manually.



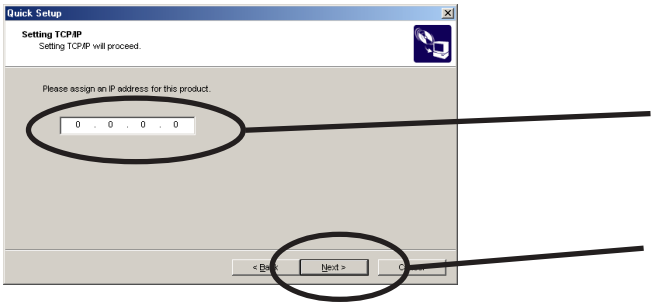
Assign an optional IP address.

Click ***Next.***

NOTE

-If NetWare Client is installed and PRICOM is supporting NetWare (Enable), NetWare configuration screen will appear.

When you do not have DHCP server in your environment.



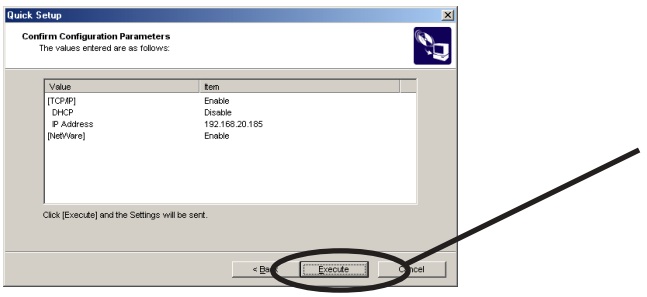
Assign the optional IP address.

Click ***Next.***

NOTE

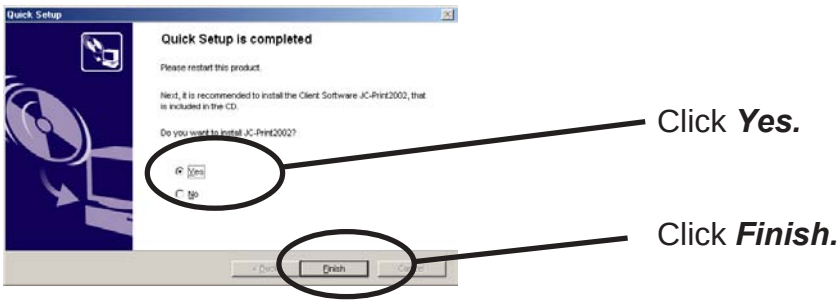
-If NetWare Client is installed and PRICOM is supporting Netware (Enable), NetWare configuration screen will appear.

7. Verify the configuration parameters.



Click ***Execute.***

8. Setup is complete.



NOTE

-Proceed to install JC-Print2002.
JC-Print2002 is a printing software that enables user to execute printing directly from Windows.

Install JC-Print2002

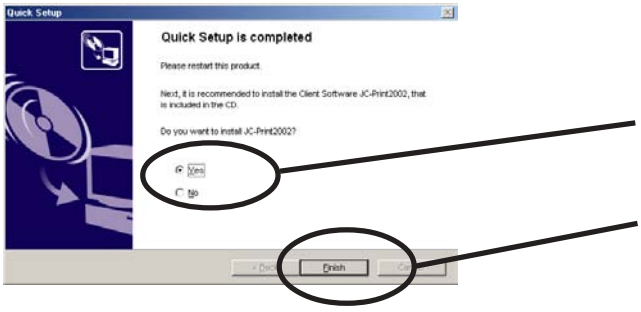
To print directly from Windows 95/98/Me environment using TCP/IP protocol, use the JC-Print2002 bundled with PRICOM.
JC-Print2002 is a printing software that enables users to use LPR (dedicated to silex products), IPP and Raw (9100) port. JC-Print2002 also records PRICOM Monitor SX.
When installation is complete, the wizard to add printer port to be stared.

NOTE

-LPR (Line Printer Remote)
A widely used protocol that enables users to execute printing to printers on the local area network (LAN).
-IPP (Internet Printing Protocol)
This protocol enables users to execute printing to network printers remote via Internet.
-Raw (9100) port
This function enables users to execute printing to printers on the local area network (LAN). Information can be printed at a high speed without spool.
-PRICOM Monitor SX
You can check the printer status with this monitor. For more details, refer to " 9. PRICOM Monitor SX".

1. Verifying installing method.

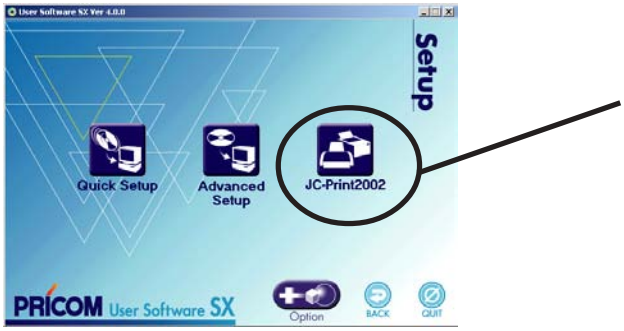
(A) Install JC-Print2002 following Quick Setup.



Click ***Yes.***

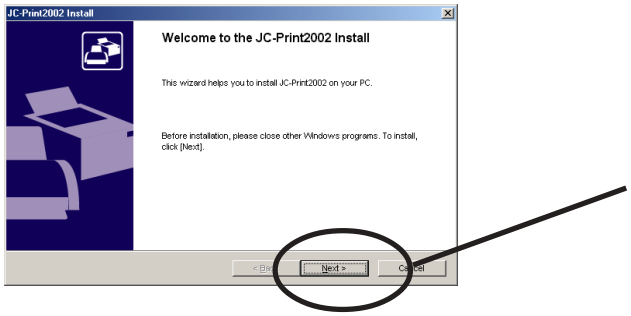
Click ***Finish.***

(B) Install JC-Print2002 .



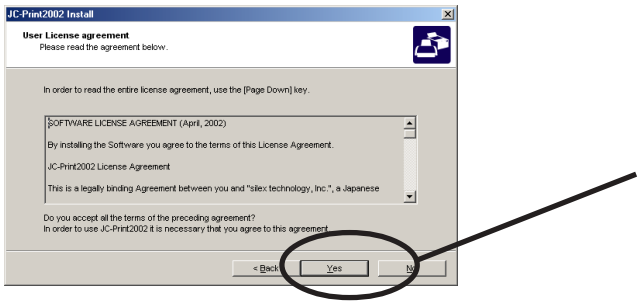
Mount the CD-ROM bundled, then click ***Setup***, then ***JC-Print2002.***

2. JC-Print2002 installation wizard to be started.



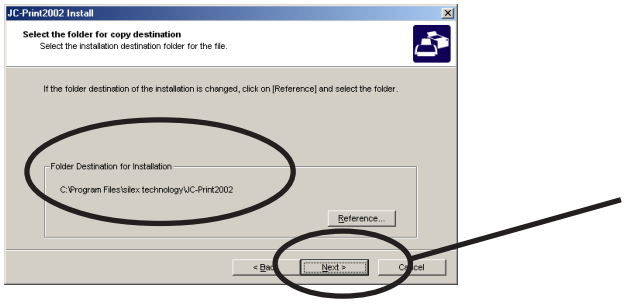
Click ***Next.***

3. Confirm the Software License Agreement.



Read the agrement and click ***Yes*** if you accept it.

4. Verify the Destination Directory.



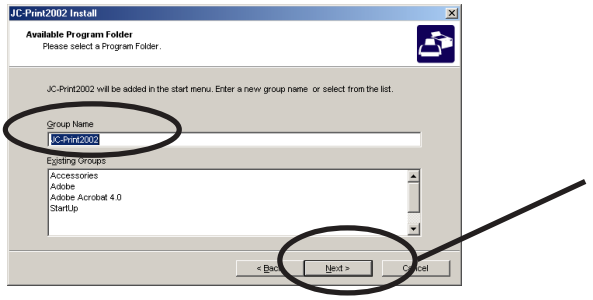
.

Click ***Next***.

NOTE

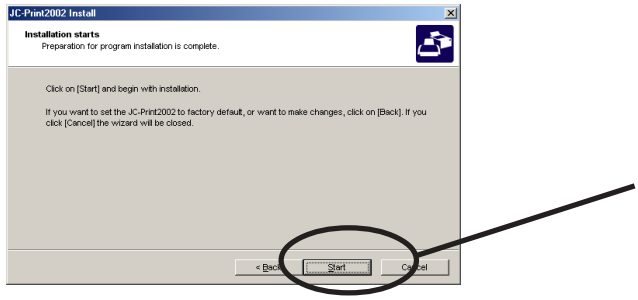
-Click ***Reference*** to specify the destination directory.

5. Specify the group name to be registered at the start menu.



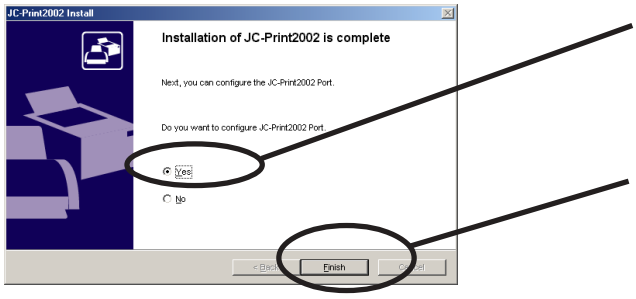
Click ***Next***.

6. Installation to be started.



Click ***Start.***

7. Configuration is complete.



Select ***Yes***..

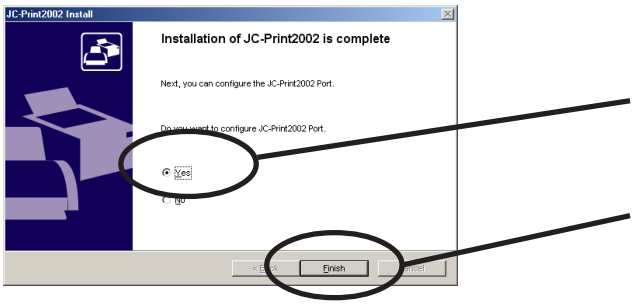
Click ***Finish.***

Adding Printer Port

JC-Print2002 has three available options for printing; "***Print using LPR***", "***Print using IPP***" and "***Print using Raw Mode***".
Select the protocol to be used for printing, then click "***Next***" to start using the specified printing option.

(A)

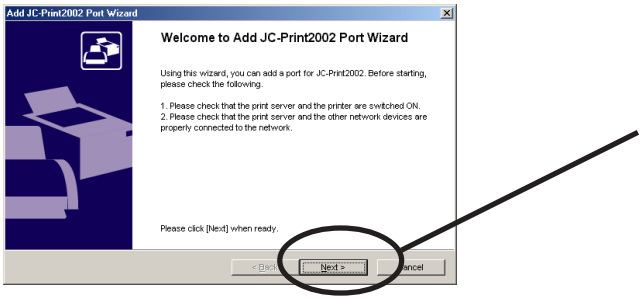
1. Adding printer port following the JC-Print2002 installation.



Select ***Yes.***

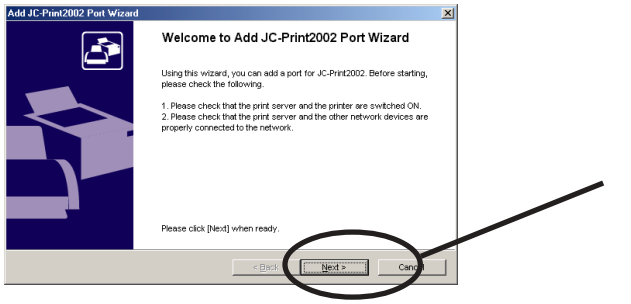
Click ***Next.***

2. JC-Print2002 port adding wizard starts,



Click ***Next.***

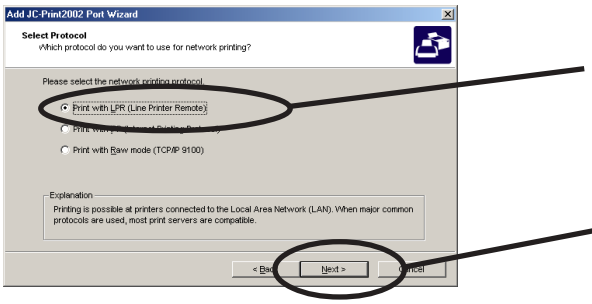
(B) Click ***Start***, then ***Programs***, then ***JC-Print2002***, then ***JC-Print2002 Port adding***.



Click ***Next.***

Adding JC-Print2002 LPR Port

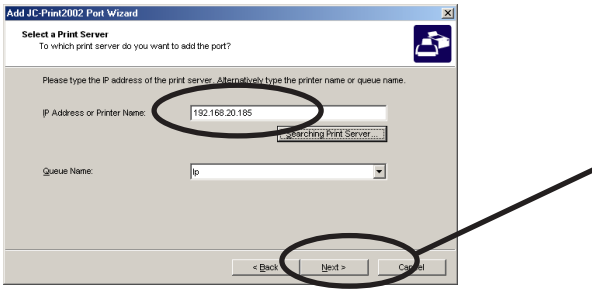
1. Select ***LPR (Line Printer Remote).***



Select ***Print with LPR (Line Printer Remote).***

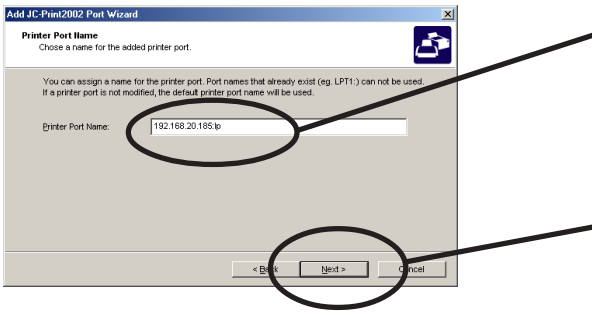
Click ***Next***.

2. Display the list of print servers on the network by clicking ***Searching Print Server***. Select PRICOM you want to configure.



Click ***Next***.

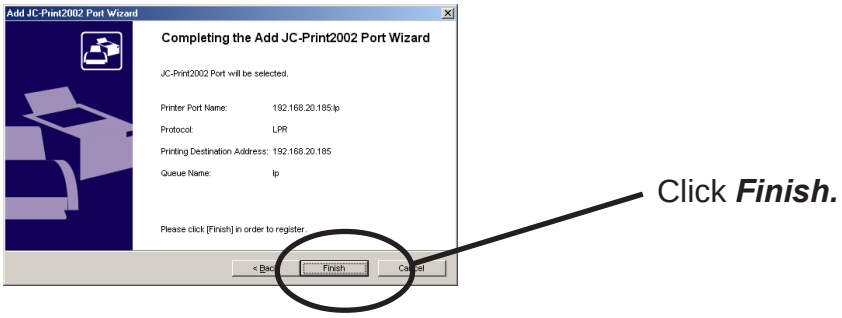
3. Type in printer port name.



If you do not want to have a specific name, use the default printer port name.

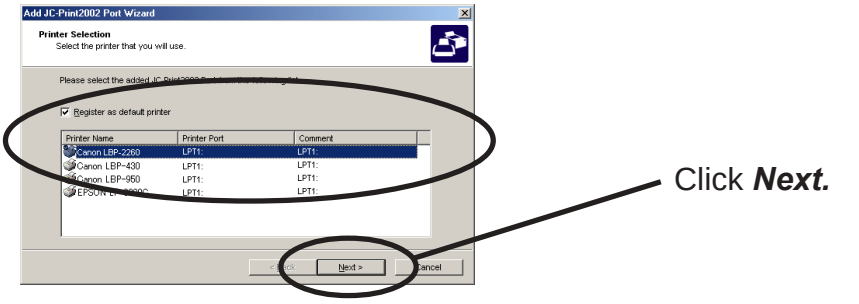
Click ***Next***.

4. Verify the configuration.



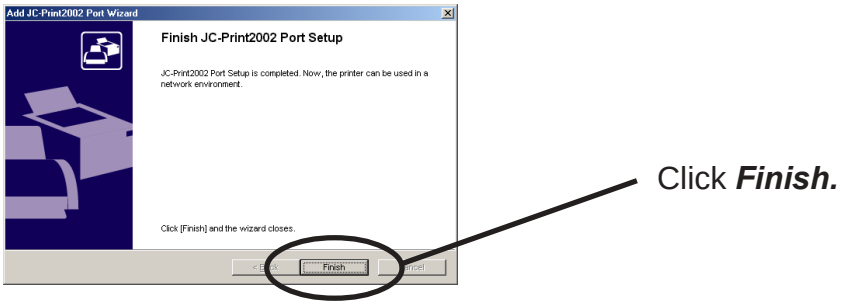
Click ***Finish.***

5. Select the printer you want to use with PRICOM.



Click ***Next.***

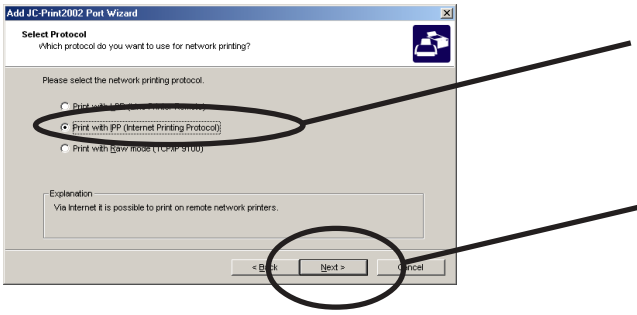
6. Port configuration is complete.



Click ***Finish.***

Adding JC-Print2002 IPP Port

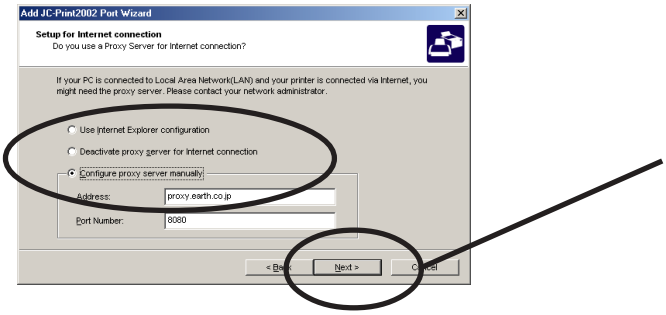
1. . Select IPP (Internet Printing Protocol).



Select ***Print with IPP (Internet Printing Protocol).***

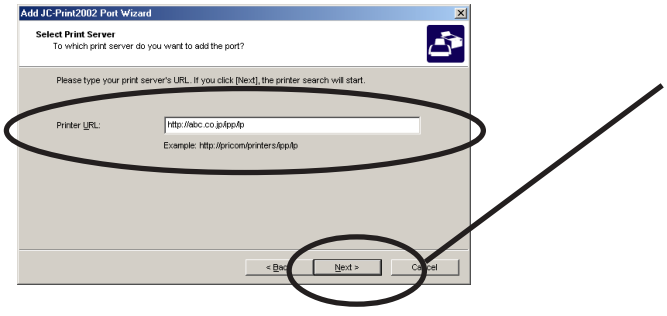
Click ***Next.***

2. Select either ***Use Internet Explorer configuration***, ***Deactivate proxy server for Internet connection*** or ***Configure proxy server manually.***



Click ***Next***.

3. Type in URL assigned to PRICOM for ***Printer URL***. PRICOM IPP printer URL is "/ipp" or "/ipp/lp".



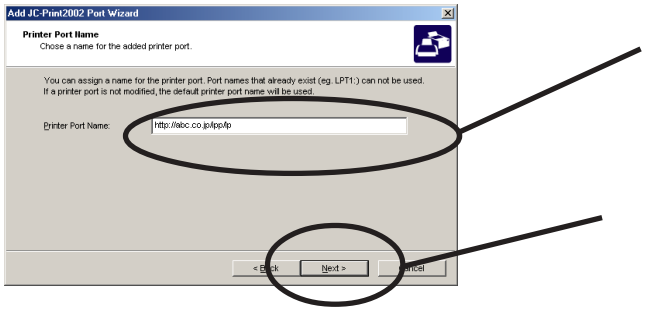
Click ***Next.***

Ex.): When URL is “abc.co.jp”,
http://abc.co.jp/ipp/lp
Ex.) When IP address is
“192.168.20.185”,
http://192.168.20.185/ipp/lp

NOTE

-If you click ***Next,*** you can make sure if specified URL exists..

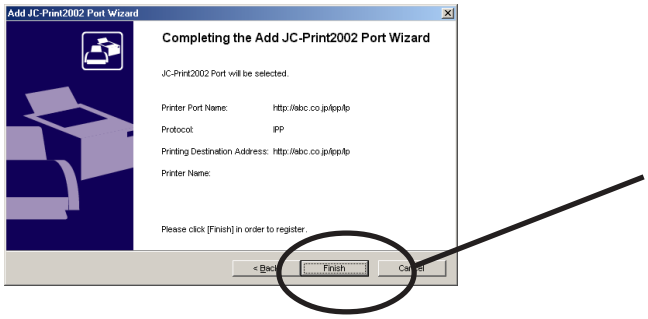
4. Configure the port name for printing.



If you do not want to have a specific name, use the default printer port name.

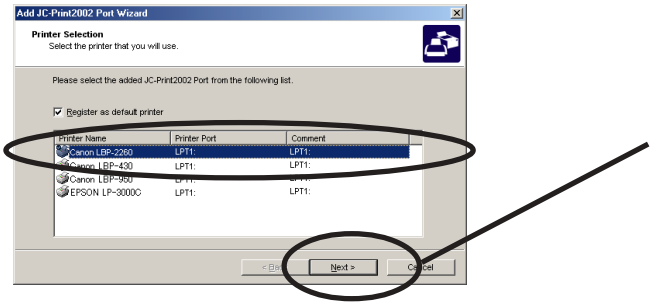
Click ***Next.***

5. Verify the configuration.



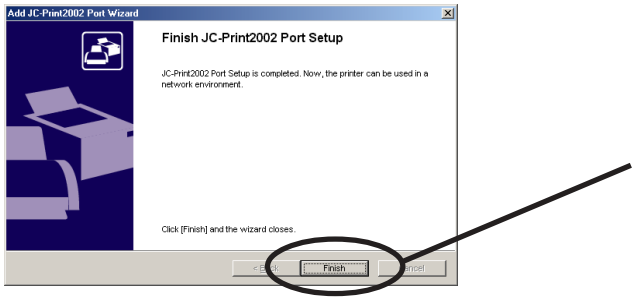
Click ***Finish.***

6. Select the printer you want to use with PRICOM.



Click ***Next.***

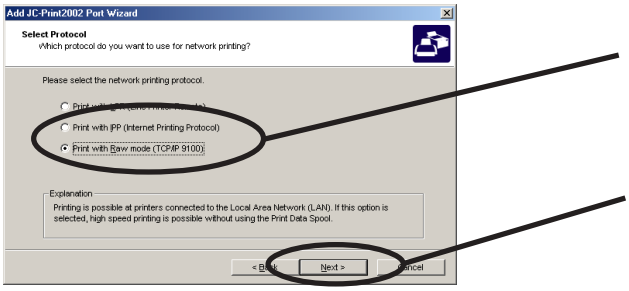
7. Configuration is complete.



Click ***Finish.***

Adding JC-Print2002 Raw (9100) Port

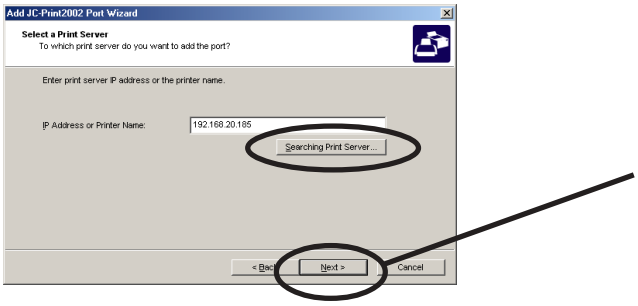
1. Select Raw mode.



Select ***Print with Raw mode (TCP/IP 9100).***

Click ***Next.***

2. Display the list of print servers on the network by clicking ***Searching Print Server*** Select PRICOM you want to configure.

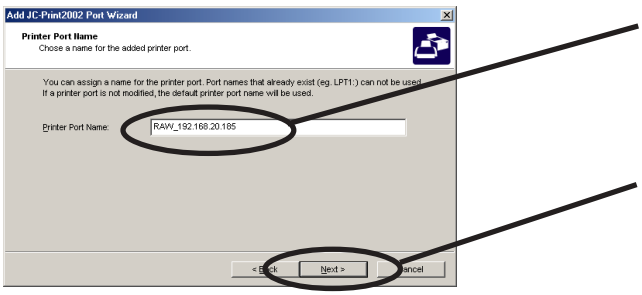


Click ***Next***.

NOTE

-To verify if the specified print server can access 9100 port, click ***Next.***

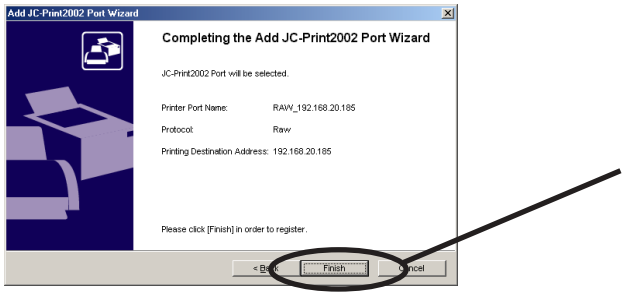
3. Type in print port name.



If there is no problem, use the default printer port name (RAW_IP address).

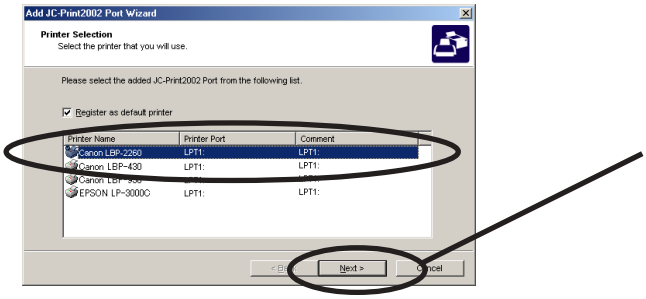
Click ***Next.***

4. Verify the configuration.



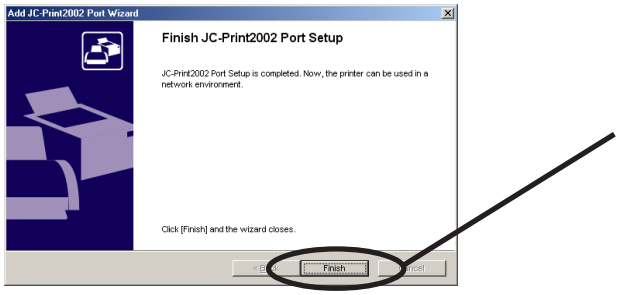
Click ***Finish.***

5. Select the printer you want to use with PRICOM.



Click ***Next.***

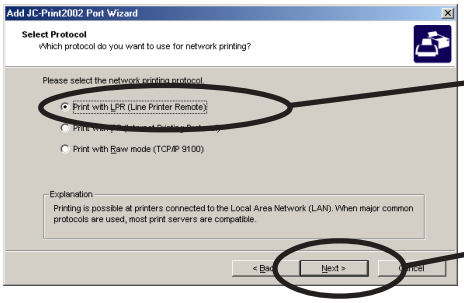
6. Configuration is complete.



Click ***Finish.***

Adding USB Port

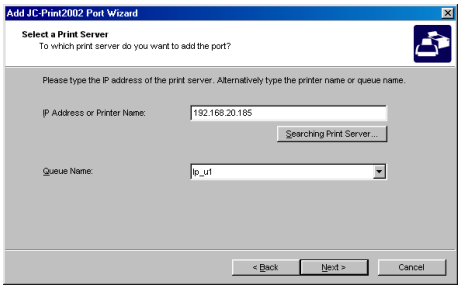
1. Select ***LPR (Line Printer Remote).***



Select ***Print with LPR (Line Printer Remote).***

Click ***Next***.

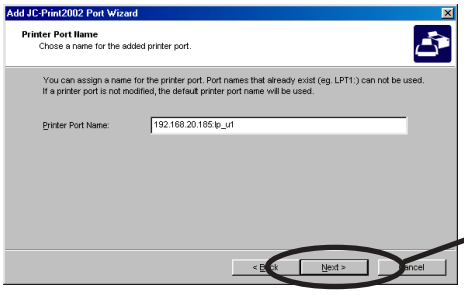
2. Click the ***Searching Print Server*** button to show a list of print servers in the network, then select this product.
Select “lp_u1” as the queue name.



NOTE

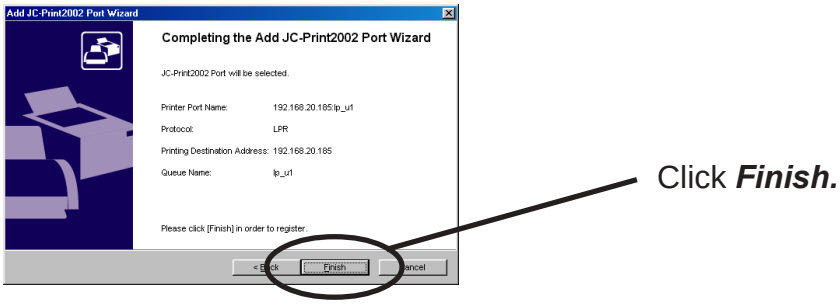
-When you do not use the USB port, select “lp.”

3. Type in print port name.



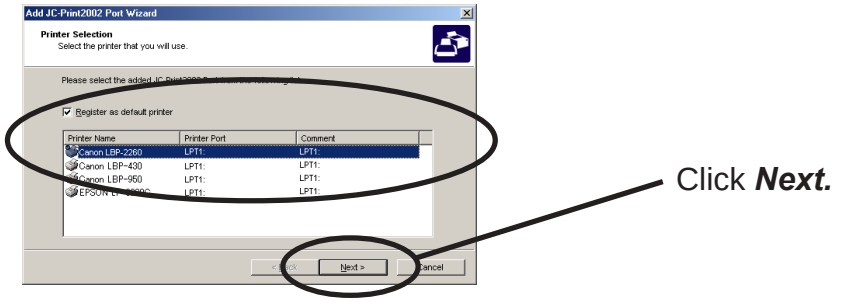
Click ***Next.***

4. Check the details of the setup.



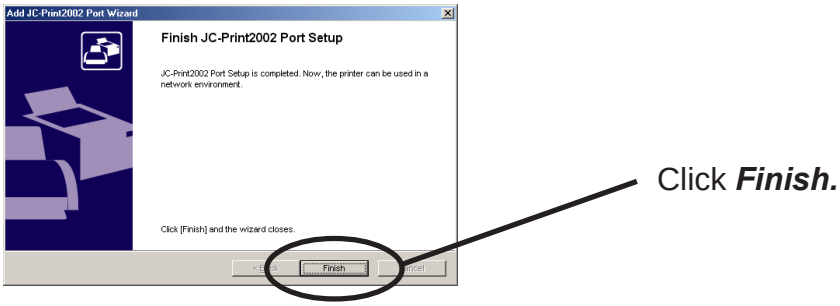
Click ***Finish.***

5. Select the printer you want to use with PRICOM.



Click ***Next.***

6. Port configuration is complete.



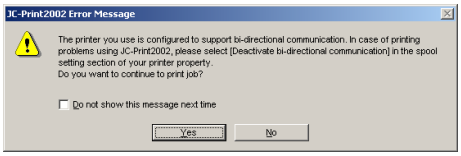
Click ***Finish.***

Configuring printer driver

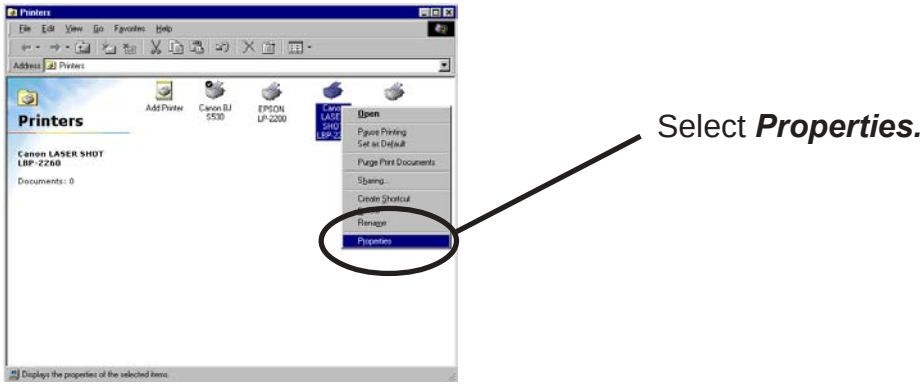
This section explains how to configure printer driver.

NOTE

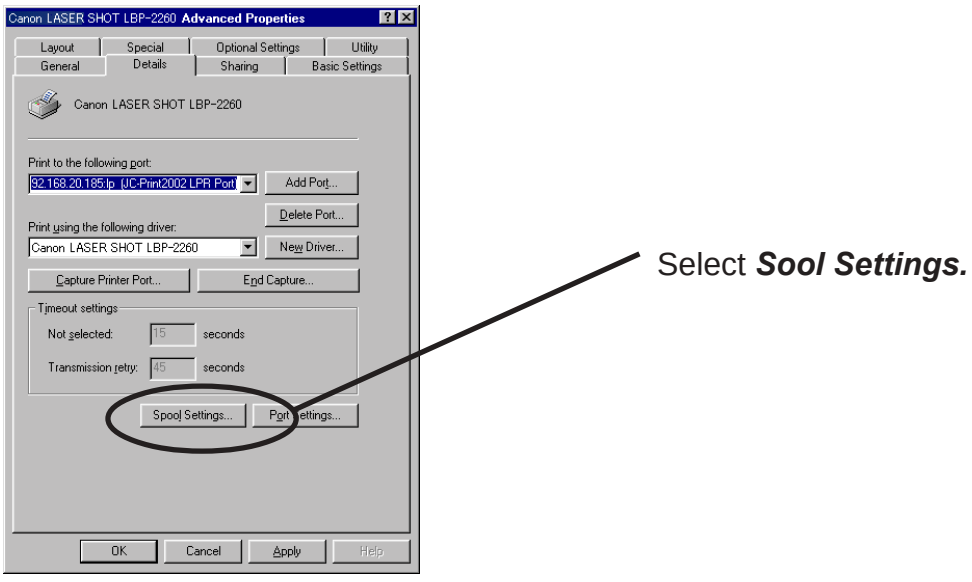
-If you do not configure printer driver, the following error dialog may appear.
In this case, click ***No*** and configure printer driver by following steps.



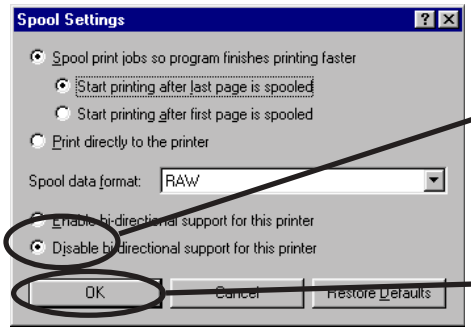
1. Click ***Start***, then ***Settings,*** then ***Printer,*** then open the printer property.



2. Select ***Details.***



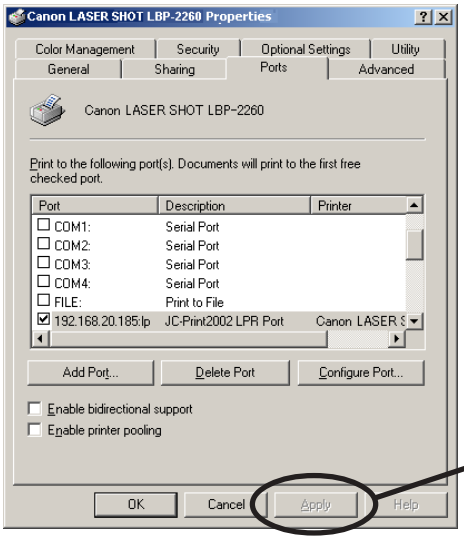
3. Select ***Disable bidirectional support for this printer.***



Select ***Disable bidirectional support for this printer.***

Click ***OK.***

4. Configuration is complete.



Click ***Apply.***

Print Using NetBEUI, NetBIOS over TCP/IP of Windows 95/98/Me

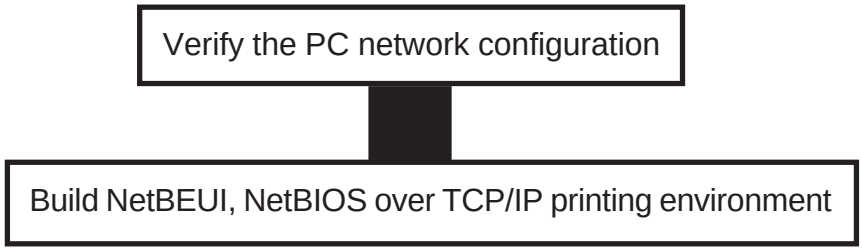
Follow the steps shown below to print from Windows 95/98/Me environment using NetBEUI, NetBIOS over TCP/IP protocol.

TIP

-You can use the USB port only on PRICOM H-260U.

NOTE

- Make user to install printer driver before you start using PRICOM.
- For further information on NetBEUI, NetBIOS over TCP/IP configuration, refer to Chapter 8 Functions for Configuration.



Verify the PC Network Configuration (NetBEUI)

Make sure that ***NetBEUI*** and ***Microsoft network shared service*** are added to ***Network*** of Windows 95/98/Me.

1. Click ***Start***, then ***Settings***, then ***Control Panel***.
2. Double-click ***Network*** icon.
3. Verify that ***NetBEUI*** and ***File and printer sharing for Microsoft Network*** are added to the network component list.

NOTE

-If NetBEUI protocol is not in the current network component list, click ***Add***, then ***Protocol***, then ***Microsoft*** , then ***NetBEUI*** to add ***NetBEUI.*** If ***File and printer sharing for Microsoft Network*** is not in the current network component list, click ***Services***, then ***File and printer for Microsoft Network*** to add File and printer sharing for Microsoft Network.

Verify the PC Network Configuration (NetBIOS over TCP/IP)

Make sure that ***TCP/IP*** and ***Microsoft network client*** are added to ***Network*** of Windows 95/98/Me and verify if NetBIOS over TCP/IP is usable at ***TCP/IP*** properties.

1. Click ***Start***, then ***Settings***, then ***Control Panel***.

2. Double-click ***Network***.

3. Verify that ***TCP/IP*** and ***Microsoft network client*** are added to ***Network***.

NOTE

-If ***TCP/IP*** is not in ***The following network components are installed***, click ***Add,*** then ***Protocols,*** then ***Microsoft,*** then ***TCP/IP.***
-If Microsoft network client is not in ***The following network components are installed,*** click ***Services,*** then ***Microsoft network client.***

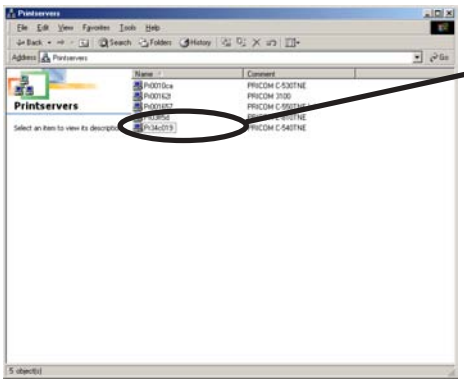
4. Open ***TCP/IP*** properties, then select ***NetBEUI***, then verify if ***Enable NetBIOS on TCP/IP*** is checked.

NOTE

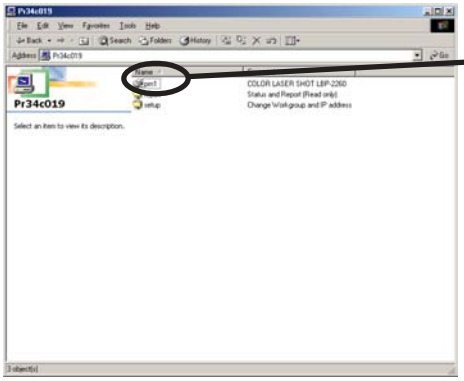
-In the default, Enable NetBIOS on TCP/IP is generally checked.

Print Using NetBEUI, NetBIOS over TCP/IP(When you use the EIO port)

1. Double-click ***Network computer***, then open work group name; ***[PrintServers]*** in the ***Whole Network.***

2. 

Double-click the computer (PRICOM).

3. 

Double-click the printer.

4. Display printer configuration screen.

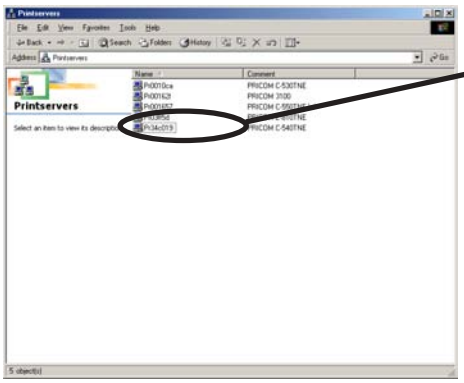
Click ***Yes***.

5. Printer add wizard to be started. Follow the instructions given by the wizard to complete configuration. If you get the printer test page, adding printer is complete.

Print Using NetBEUI, NetBIOS over TCP/IP(When you use the USB port)

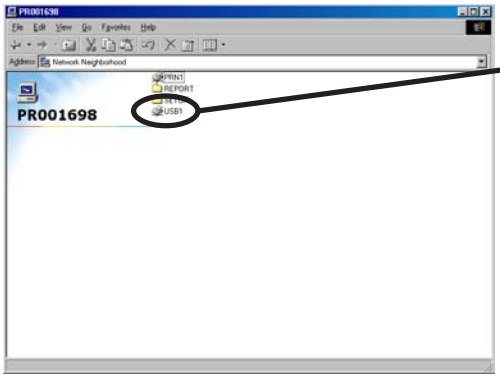
1. Double-click ***Network computer***, then open work group name; ***[PrintServers]*** in the ***Whole Network.***

2.



Double-click the computer (PRICOM).

3.



Double-click the printer icon with “usb1”

NOTE

-When you do not use the USB, double-click the icon for which symbol “prn1” is marked.

4. Display printer configuration screen.

Click ***Yes***.

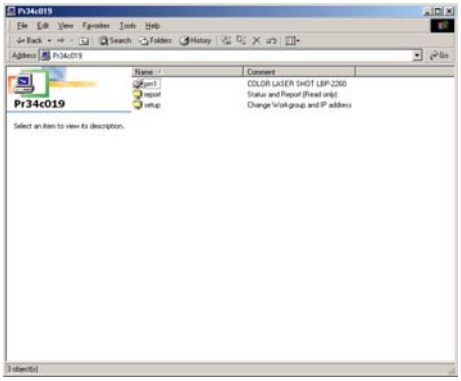
5. Printer add wizard to be started. Follow the instructions given by the wizard to complete configuration. If you get the printer test page, adding printer is complete.

About NetBEUI, NetBIOS over TCP/IP

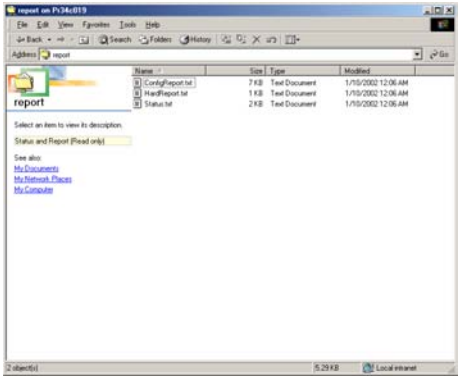
Structure of NetBEUI, NetBIOS over TCP/IP work group

This section explains about the structure of NetBEUI work group installed in PRICOM.

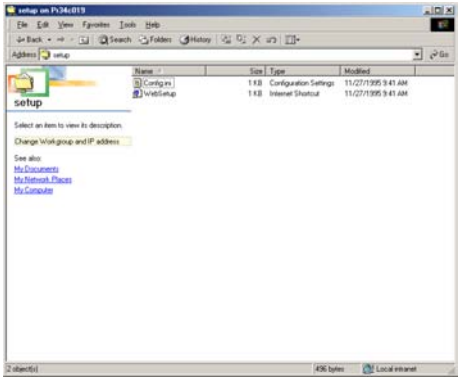
Ex.) : PRICOM Ethernet address: 00:80:92:34:c0:19



\\Pr34c019: Computer (PRICOM)
\\Pr34c019\prn1: Printer



\\Pr34c019\report\ConfigReport.txt:
Settings report (read only)
\\Pr34c019\report\Status.txt:
Diagnostic report (read only)
\\Pr34c019\report\HardReport.txt:
System status report (read only)



\\Pr34c019\setup\Config.ini:
Initial setting file (can be edited)
\\Pr34c019\setup\WebSetup:
Shortcut file (read only)

- Configuration report
Outputs the internal information in the PRICOM when activated.

- System status report
Outputs the information on PRICOM status when activated.

- Initial configuration file
With the initialization file, ***Work group name*** and ***IP address*** can be described. Use editor like memo pad to edit and save files in the overwrite mode. In a few seconds, PRICOM automatically resets and reboots.

By editing the initialization file and saving the file in the overwrite mode, you can change work group name and IP address.
Ex.)

Workgroup=UserGroup
IP address=192.168.20.126

Specify work group name that already exist in the whole network. In case IP address is to be automatically assigned by using DHCP/BOOTP and RARP server, the IP address typed in [IP address] will be invalid.

- Shortcut file
Once PRICOM is given IP address, shortcut (WebSetup) is created. When double-clicking the shortcut icon, web browser to be activated and PRICOM homepage to be displayed.

NOTE

-For the Web browser, refer to Chapter 8.

4. Using PRICOM in Windows NT 4.0, Windows 2000 and Windows XP

This chapter explains how to print using TCP/IP, NetBEUI and NetBIOS over TCP/IP protocol of Windows NT 4.0, Windows 2000 and Windows XP.

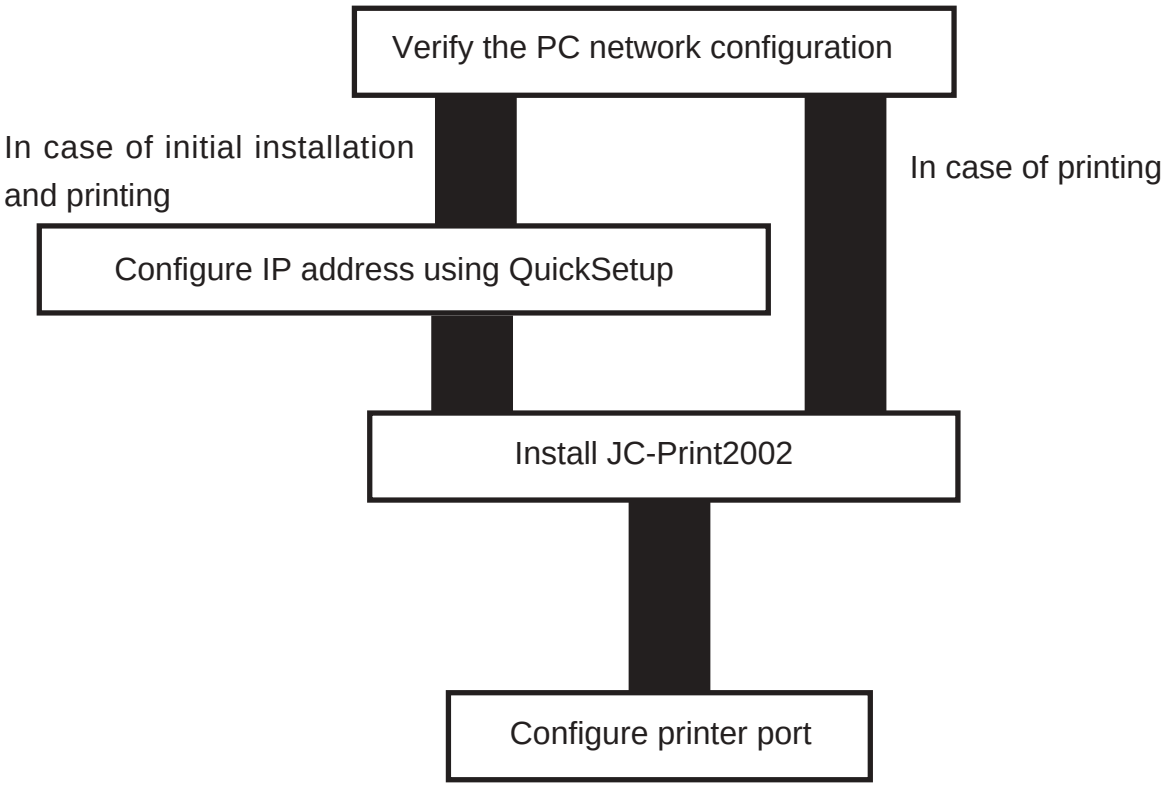
Print Using TCP/IP of Windows NT 4.0, Windows 2000 and Windows XP.

Following indicates how to print using TCP/IP protocol.

NOTE

-Make sure to install printer driver before you start using PRICOM.

-For the print using embedded printing client function, refer to "Print Using Embedded Printing Client Function" in this chapter.



Verify the PC Network Configuration

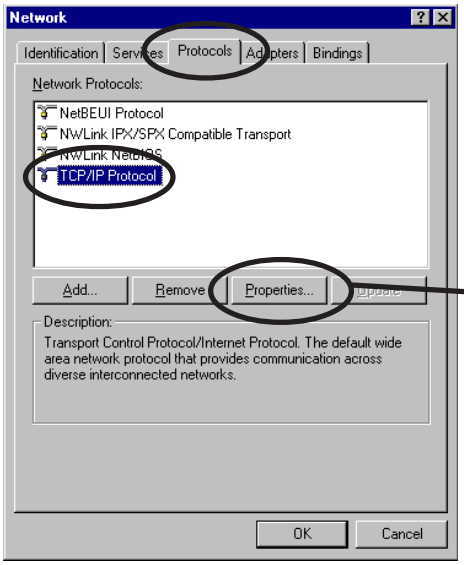
Windows NT 4.0

Make sure that the ***TCP/IP*** and ***Microsoft TCP/IP Printing*** are added to the ***Services.***

1. Click-***Start***, then ***Settings***, then ***Control Panel***.

2. Double-click ***Network***.

3. Verify that ***TCP/IP Protocol*** is included in ***Network Protocols***.

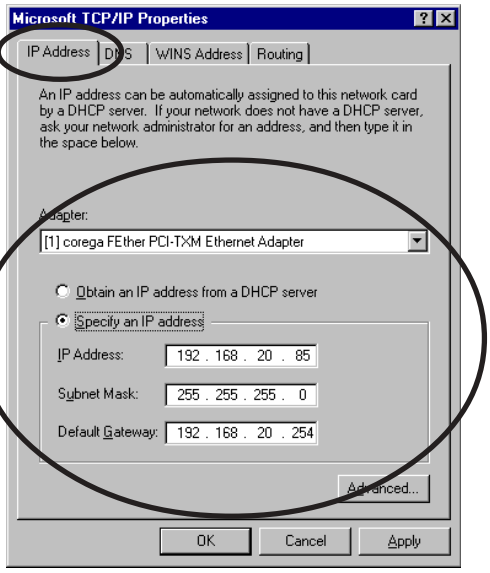


Click ***Properties.***

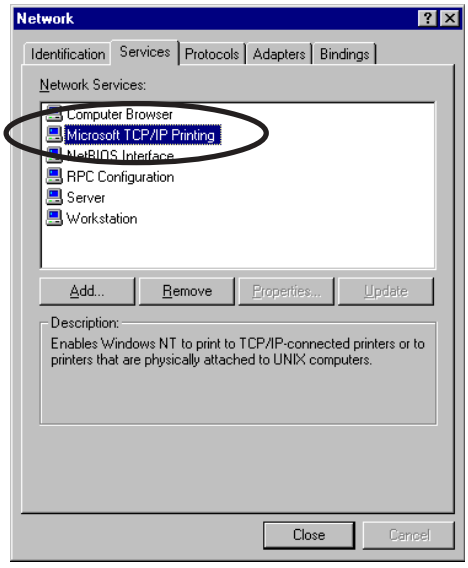
NOTE

-If ***TCP/IP Protocol*** is not in ***Network Protocols***, click ***Network Components***, then ***TCP/IP Protocol*** to add ***TCP/IP protocol.***

4. Verify if the configuration is proper for your environment in "***IP Address***".



5. Verify if ***Microsoft TCP/IP Printing*** is included in ***Network Services***.



NOTE

-If ***TCP/IP Printing*** is not in ***Services,*** click ***Add***, then ***Network Services***, then ***Microsoft TCP/IP Printing*** to add ***Microsoft TCP/IP Printing***.

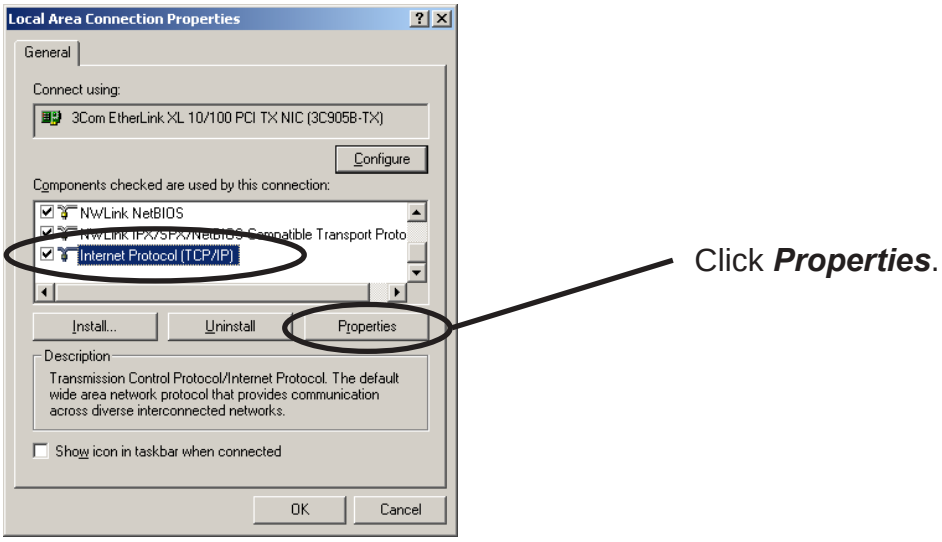
Windows 2000

Verify if ***Internet Protocol [TCP/IP]*** is added.

1. Click ***Start,*** then ***Settings***, then ***Control Panel***, then ***Network and Dial-up Connections***.

2. Right-click ***Local Area Connection***, then click ***Properties***.

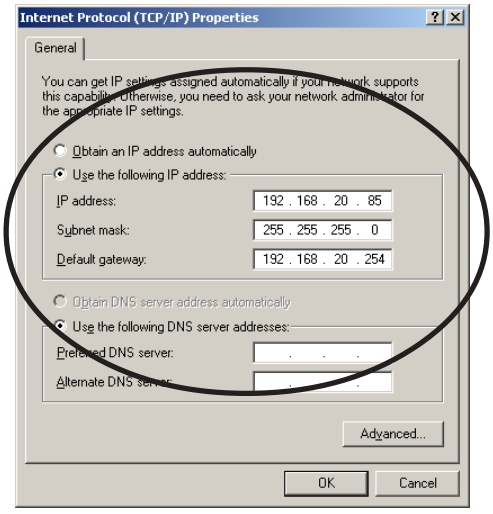
3. Verify that ***Internet Protocol [TCP/IP]*** is added.



NOTE

-If ***Internet Protocol [TCP/IP]*** is not in ***Components checked are used by this connection***, click ***Install,*** then ***Internet Protocol [TCP/IP]*** to add ***Internet Protocol [TCP/IP]***.

4. Verify if the configuration is proper for your environment in ***General.***



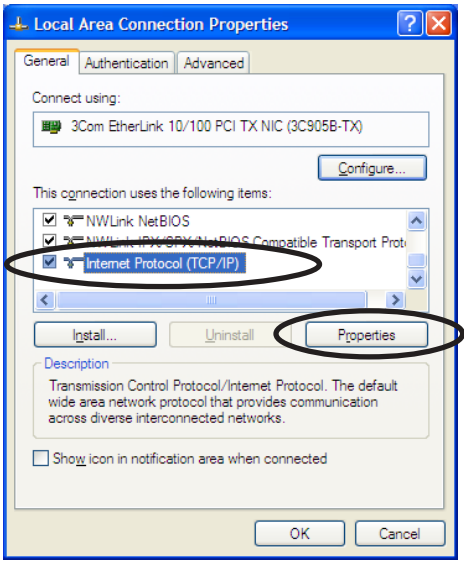
Windows XP

Verify if Internet Protocol (TCP/IP) is added.

1. Click ***start***, then ***Control Panel***, then ***Network and Internet Connections.***

2. Right-click ***Network Connections,*** then click ***Properties.***

3. Verify that Internet Protocol (TCP/IP) is added.

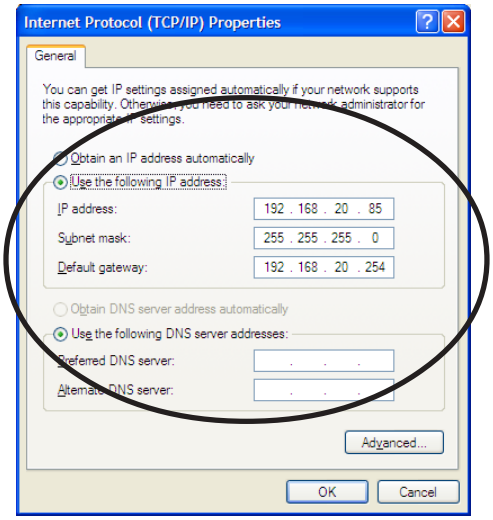


Click ***Properties.***

NOTE

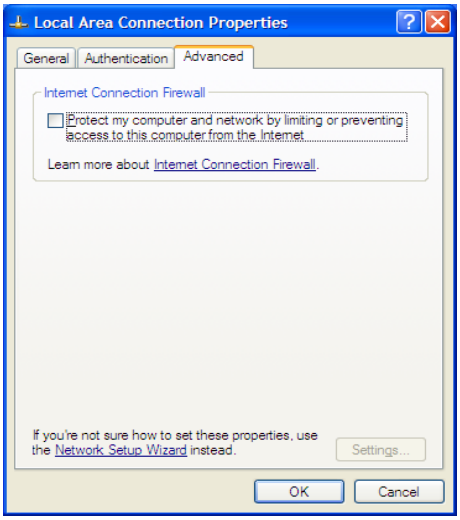
-If ***Internet Protocol (TCP/IP)*** is not in ***This connection uses the following items***, click ***Install,*** then ***Internet Protocol (TCP/IP)*** to add ***Internet Protocol (TCP/IP).***

4. Verify if the configuration is proper for your environment in ***General.***



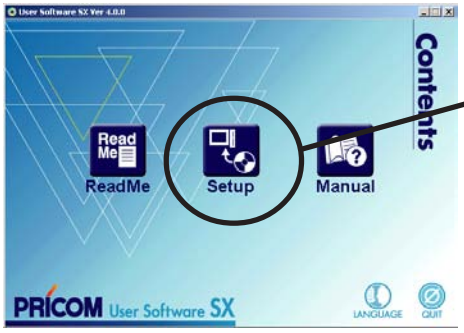
TIP

-When you use TCP/ IP protocol in Windows XP, click ***Local Area Connection Properties,*** then ***Advanced***, then remove the check from ***Protect my computer and network by limiting or preventing access to this computer from the Internet.***



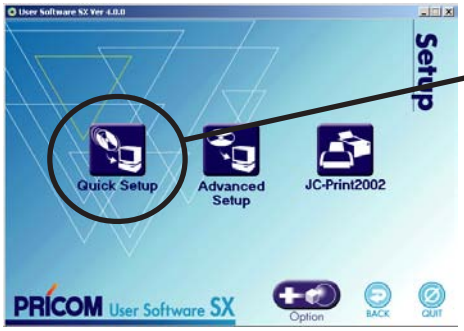
Quick Setup

1. Insert the User Software SX in the CD-ROM drive of your Windows PC. The main menu screen will be displayed.



Click ***Setup***.

2. The below screen will be displayed.

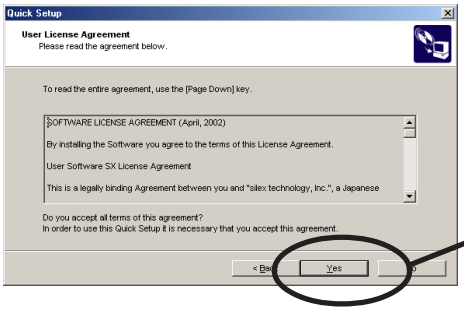


Click ***Quick Setup.***

3. Quick Setup loads.

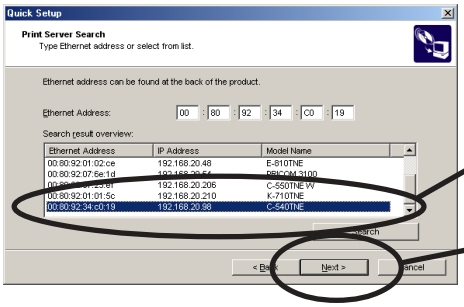
Click ***Next.***

4. Confirm the Software License Agreement.



Read the agreement and click ***Yes*** if you accept it.

5. Select PRICOM to be configured.



Select PRICOM to be configured.

Click ***Next.***

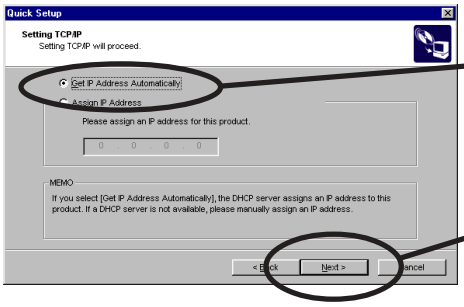
NOTE

-If PRICOM does not appear in the list, click ***Search.***
You can search PRICOM by typing in Ethernet address directly.

6. Assign an IP address.

When you have DHCP server in your environment.

(A) Obtain an IP address from DHCP server automatically.



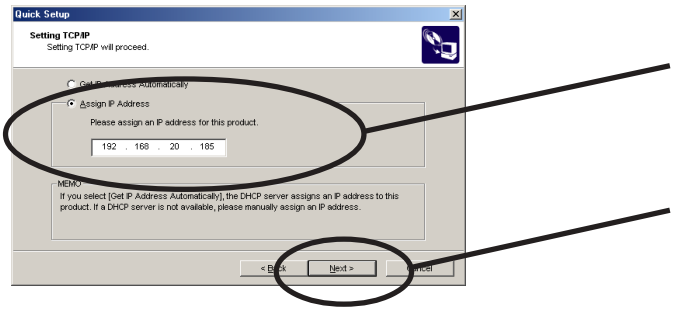
Click ***Get IP Address Automatically.***

Click ***Next***.

NOTE

-If NetWare Client is installed and PRICOM is supporting NetWare (Enable), NetWare configuration screen will appear.

(B) Assign an IP address manually.



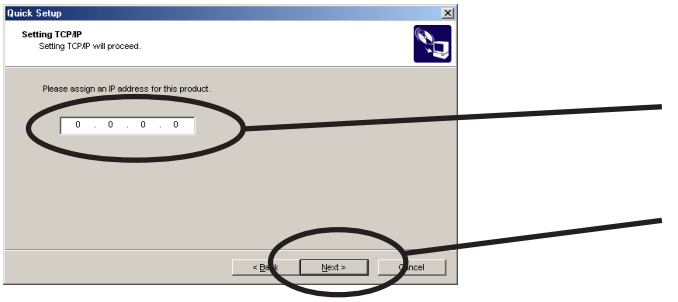
Assign an optional IP address.

Click ***Next.***

NOTE

-If NetWare Client is installed and PRICOM is supporting NetWare (Enable), NetWare configuration screen will appear.

When you do not have DHCP server in your environment.



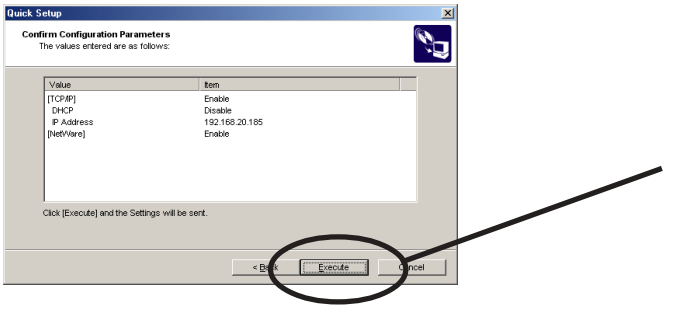
Assign an optional IP address.

Click ***Next.***

NOTE

-If NetWare Client is installed and PRICOM is supporting NetWare (Enable), NetWare configuration screen will appear.

7. Verify the configuration parameters.



Click ***Execute.***

8. Setup is complete.

NOTE

-Proceed to install JC-Print2002. JC-Print2002 is a printing software that enables you to print directly from Windows.
-If you want to embedded prinitng client function in Windows NT 4.0, Windows 2000 or Windows XP, refer to "Print Using Embedded Printing Function" in this chapter.

Install JC-Print2002

To print directly from Windows NT 4.0, Windows 2000 or Windows XP environment using TCP/IP protocol, use the JC-Print2002 bundled with PRICOM. JC-Print2002 is a printing software that enables users to use LPR (dedicated to silex products), IPP and Raw (9100) port. JC-Print2002 also records PRICOM Monitor SX. When instllation is complete, the wizard to add printer port to be started.

NOTE

-LPR (Line Printer Remote)
A widely used popular protocol that enables users to execute printing to printers on the network.
-IPP (Internet Printing Protocol)
This protocol enables users to execute printing to network printers remote via Internet.
-Raw (9100) port
This function enables users to execute printing to printers on the local area network (LAN). Information can be printed at a high speed without spool.
-PRICOM Monitor SX
You can check the printer status with this monitor. For more details, refer to " 9. PRICOM Monitor SX".

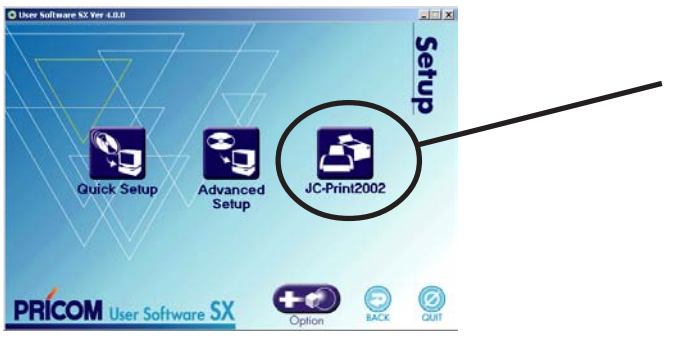
1. Verifying installing method.

(A) Install JC-Print2002 following Quick Setup.

Click ***Yes.***

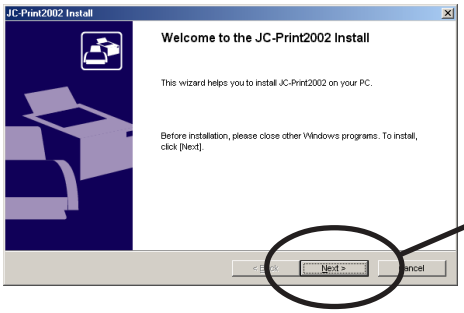
Click ***Finish.***

(B) Install JC-Print2002 .



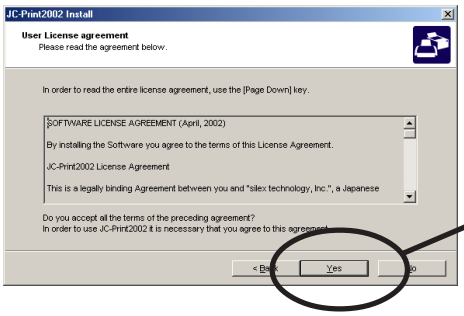
Mount the CD-ROM bundled, then click ***Setup***, then ***JC-Print2002***.

2. JC-Print2002 installation wizard to be started.



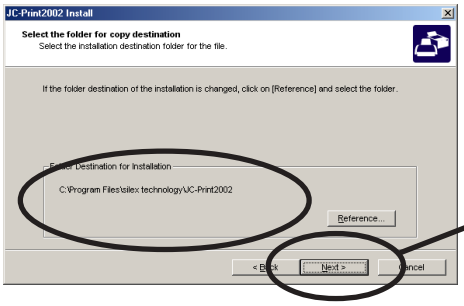
Click ***Next.***

3. Confirm the Software License Agreement.



Read the agrement and click ***Yes*** if you accept it.

4. Verify the Destination Directory.

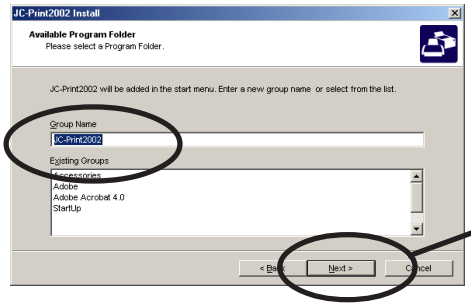


Click ***Next***.

NOTE

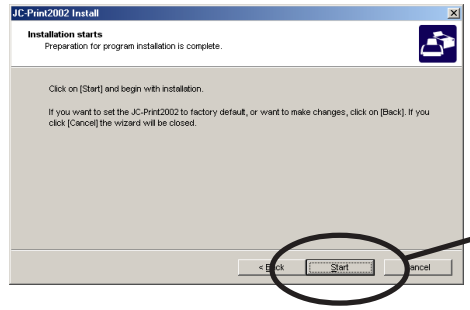
-Click ***Reference*** to specify the destination directory.

5. Specify the group name to be registered at the start menu.



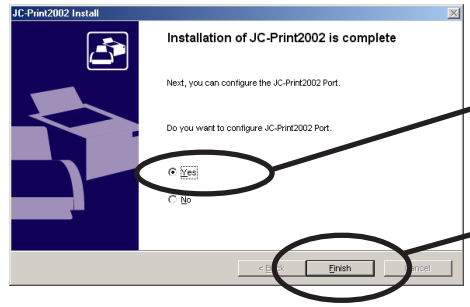
Click ***Next***.

6. Installation to be started.



Click ***Start.***

7. Configuration is complete.



Select ***Yes***.

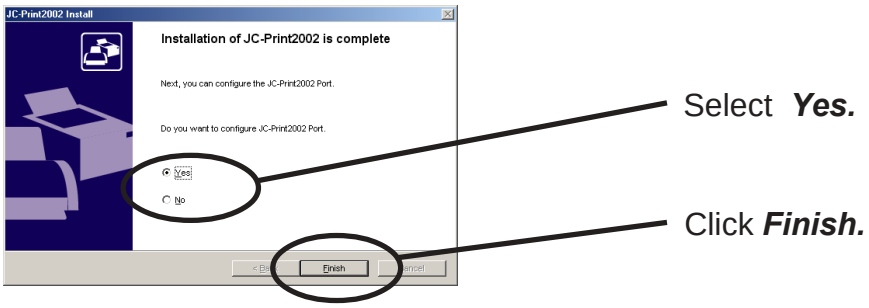
Click ***Finish.***

Adding Print Port

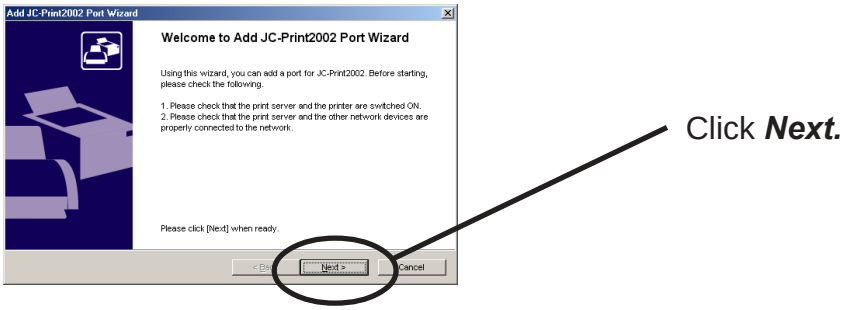
JC-Print2002 has three available options for printing. ***"Print with LPR"***, ***"Print with IPP"***, and ***"Print with Raw Mode"***. Select the protocol to be used for printing, then click Next to start using the specified printing option.

(A)

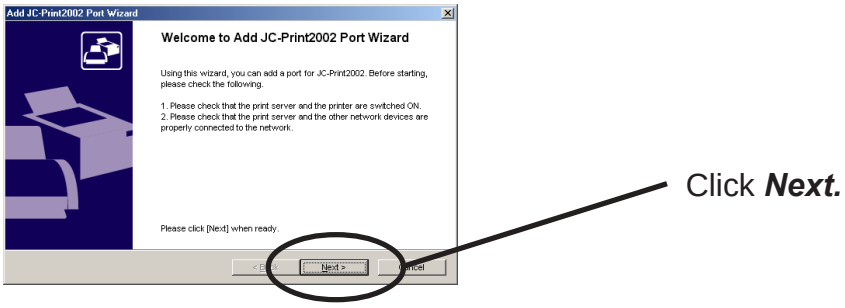
1. Adding printer port following the JC-Print2002 installation.



2. JC-Print2002 port adding wizard starts.

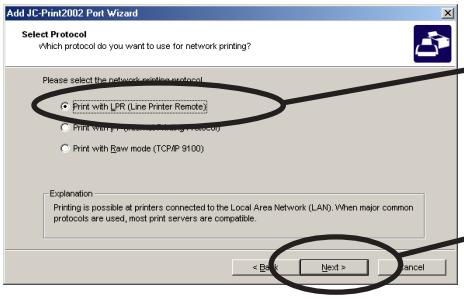


(B)Click ***Start***, then ***Programs***, then J***C-Print2002***, then ***JC-Print2002 Port adding***.



Adding JC-Print2002 LPR Port.

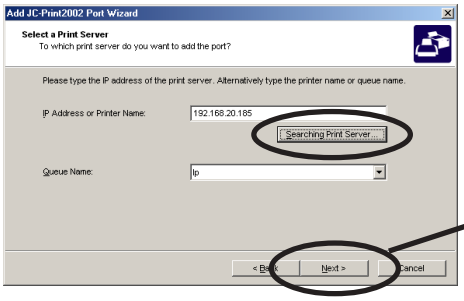
1. Select ***LPR (Line Printer Remote).***



Select ***Print with LPR (Line Printer Remote).***

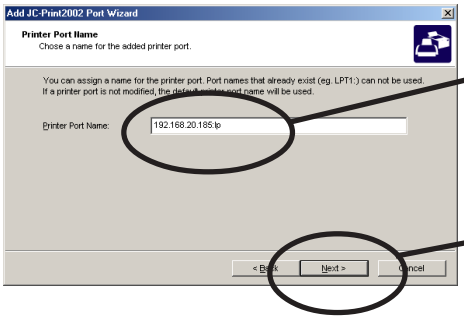
Click ***Next***.

2. Display the list of print servers on the network by ***Searching Print Server***. Select PRICOM you want to configure.



Click ***Next***.

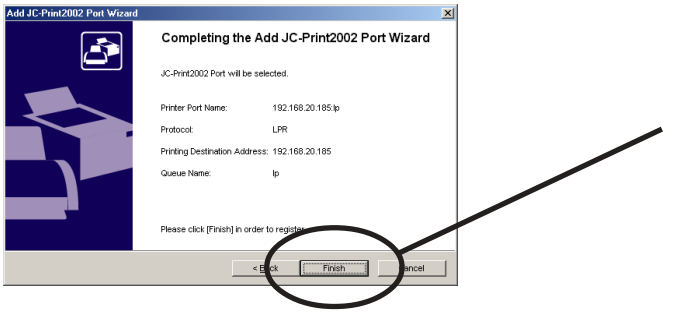
3. Type in printer port name.



If you do not want to have a specific name, use the default printer port name.

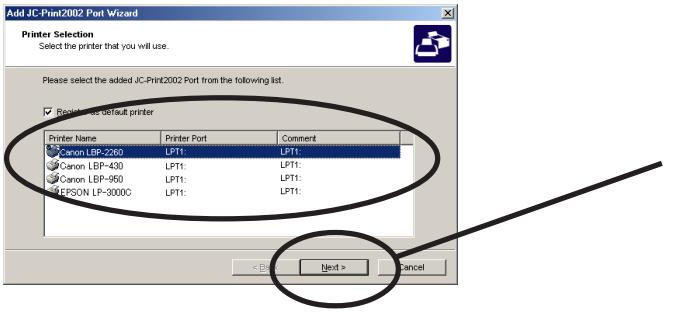
Click ***Next***.

4. Verify the configuration.



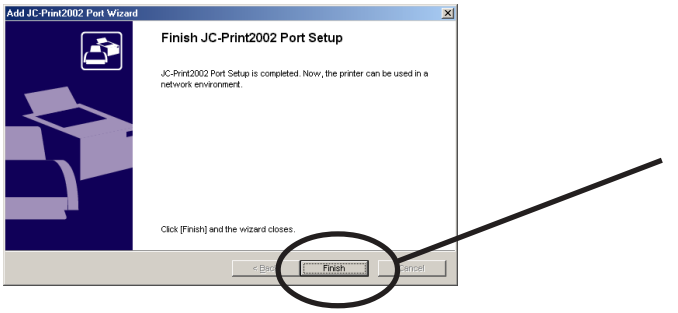
Click ***Finish.***

5. Select the printer you want to use with PRICOM.



Click ***Next.***

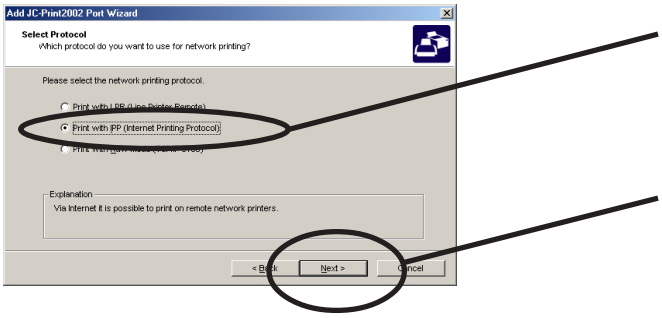
6. Port configuration is complete.



Click ***Finish.***

Adding JC-Print2002 IPP Port

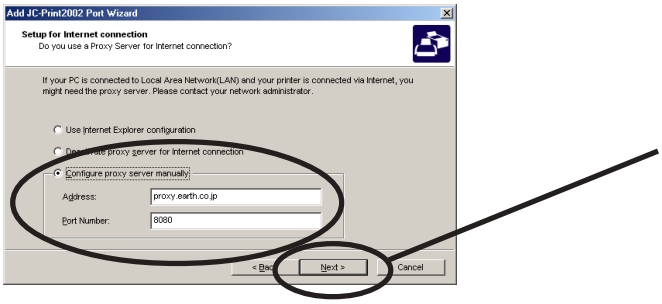
1. Select IPP (Internet Printing Protocol).



Select ***Print with IPP (Internet Printing Protocol).***

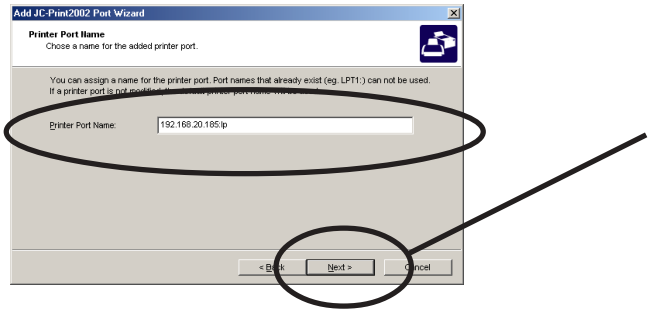
Click ***Next.***

2. Select either ***Deactivate proxy server for Internet connection*** or ***Configure proxy server manually.***



Click ***Next***.

3. Type in URL assigned to PRICOM for ***Printer URL***. PRICOM IPP printer URL is "/ipp" or "/ipp/lp".



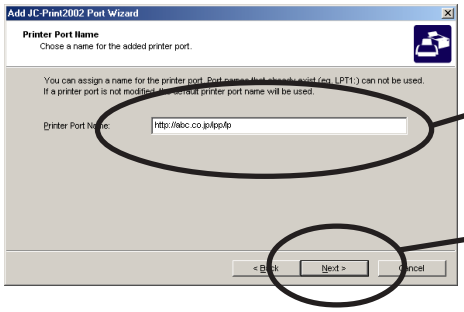
Click ***Next.***

Ex.): When URL is “abc.co.jp”,
http://abc.co.jp/ipp/lp
Ex.):When IP address is
“192.168.20.185”,
http://192.168.20.185/ipp/lp

NOTE

-If you click ***Next***, you can make sure if the specified URL exists.

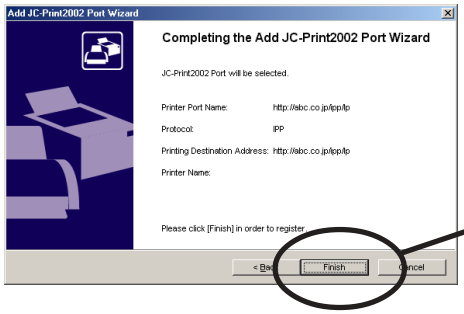
4. Configure the port name for printing.



If you do not want to have a specific port name, use the default printer port name.

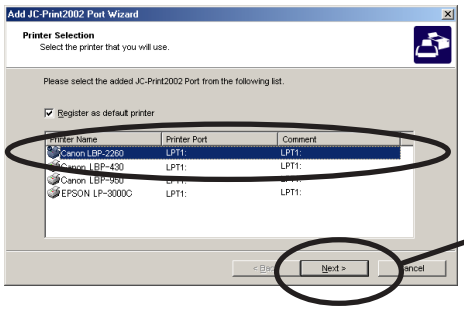
Click ***Next.***

5. Verify the configuration.



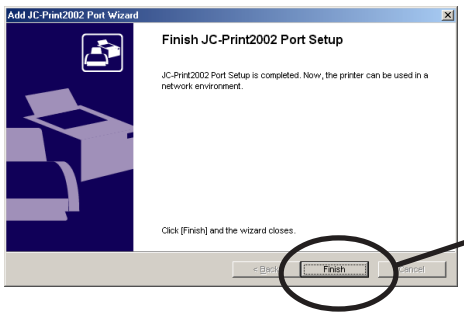
Click ***Finish.***

6. Select the printer you want to use with PRICOM.



Click ***Next.***

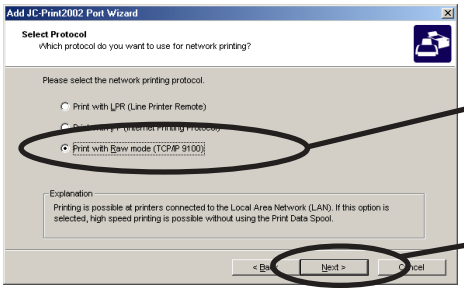
7. Configuration is complete.



Click ***Finish.***

Adding JC-Print2002 Raw (9100) Port

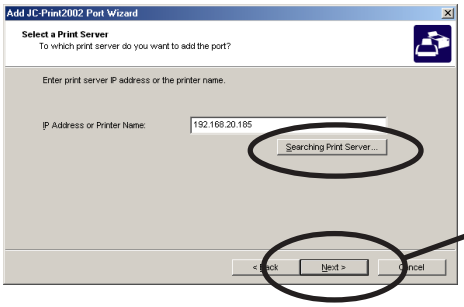
1. Select Raw mode.



Select ***Print with Raw mode (TCP/IP 9100).***

Click ***Next.***

2. Display the list of print servers on the network by ***Searching Print Server***. Select PRICOM you want to configure.

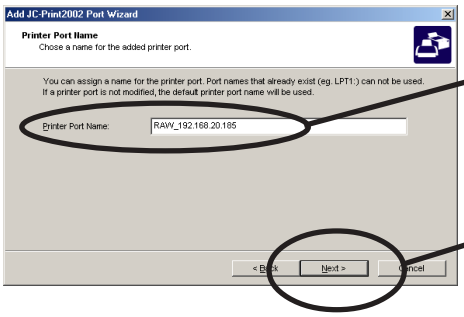


Click ***Next***.

NOTE

-To verify if the specified print server can access 9100 port, click ***Reference.***

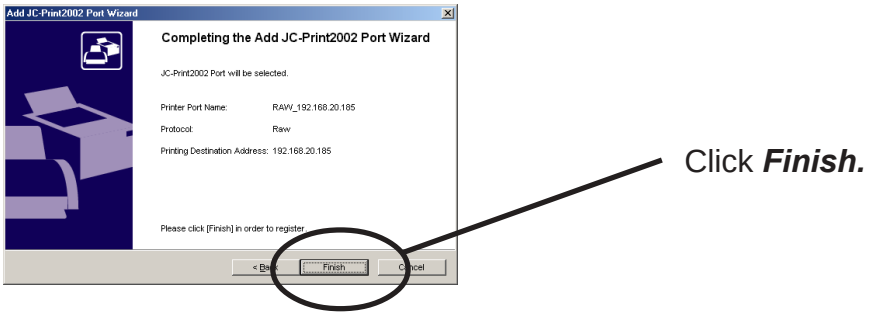
3. Type in printer port name.



If there is no problem, use the default printer port name (RAW_IP address).

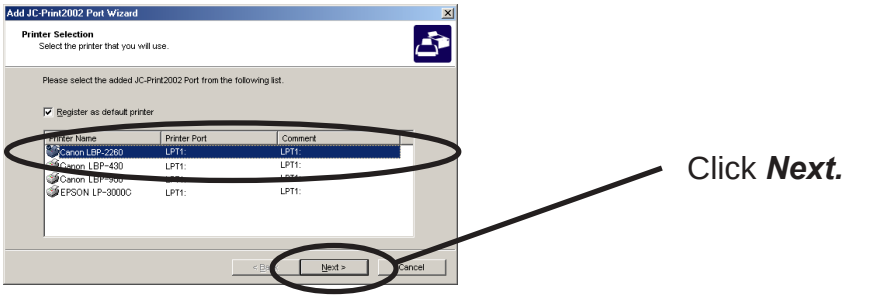
Click ***Next.***

4. Verify the configuration.



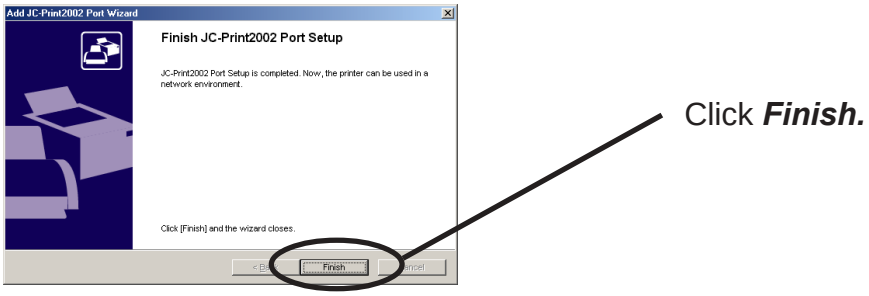
Click ***Finish.***

5. Select the printer you want to use with PRICOM.



Click ***Next.***

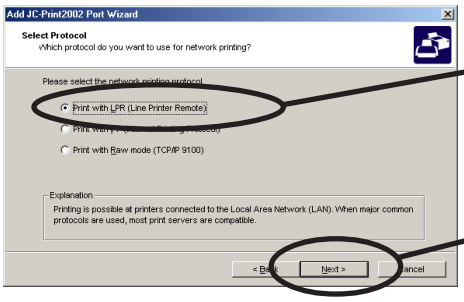
6. Configuration is complete.



Click ***Finish.***

Adding USB Port

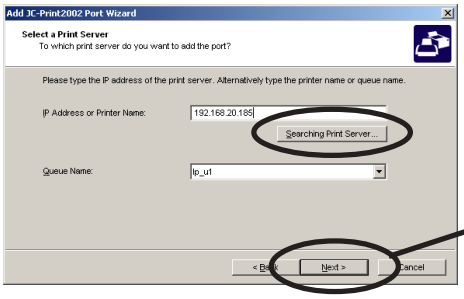
1. Select ***LPR (Line Printer Remote).***



Select ***Print with LPR (Line Printer Remote).***

Click ***Next***.

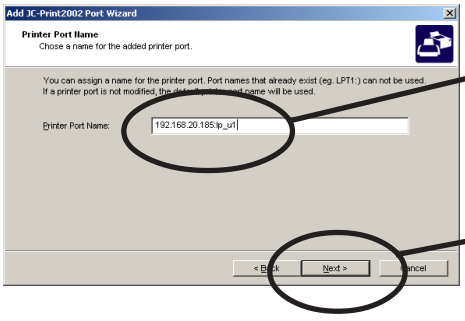
2. Click the ***Searching Print Server*** button to show a list of print servers in the network, then select this product.
Select “lp_u1” as the queue name.



Click ***Next***.

TIP -When you do not use the USB port, select “lp.”

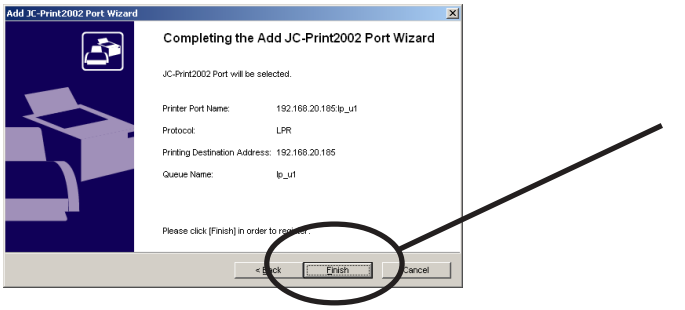
3. Type in printer port name.



If you do not want to have a specific name, use the default printer port name.

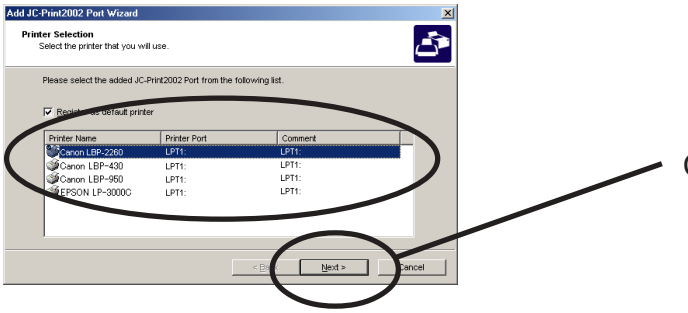
Click ***Next***.

4. Verify the configuration.



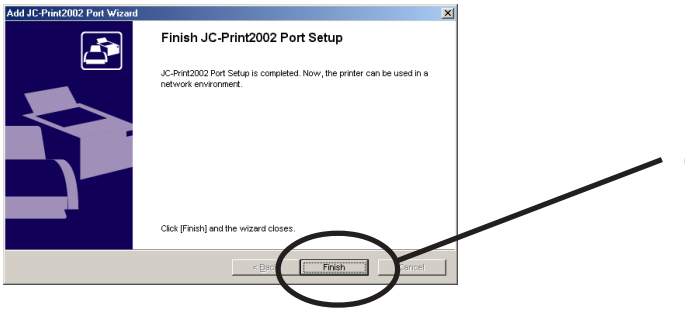
Click ***Finish.***

5. Select the printer you want to use with PRICOM.



Click ***Next.***

6. Port configuration is complete.



Click ***Finish.***

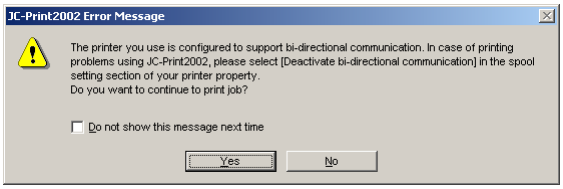
Configuring Printer Driver

This section explains how to configure printer driver.

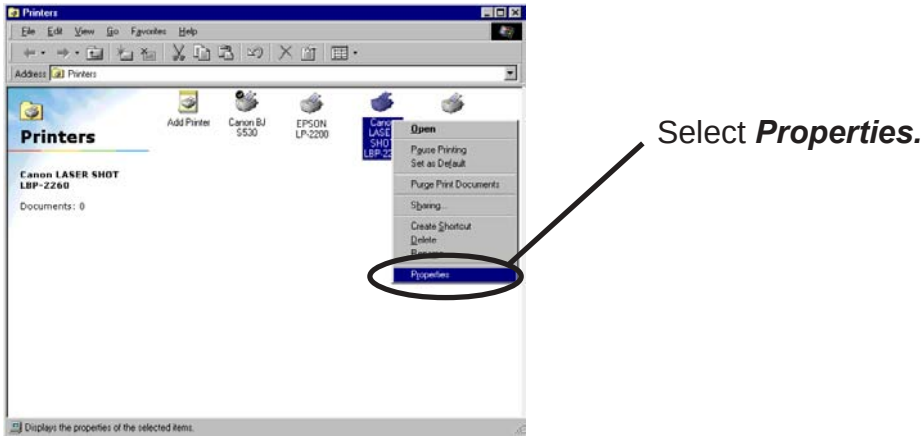
Ex.) Windows 2000

NOTE

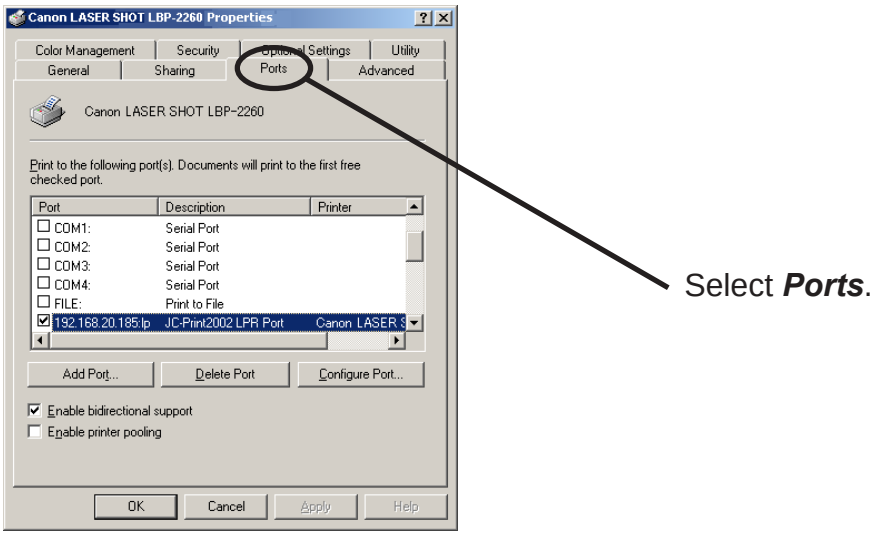
-If you do not configure printer driver, the following error dialog may appear. In this case, click ***No*** and configure printer driver by following steps.



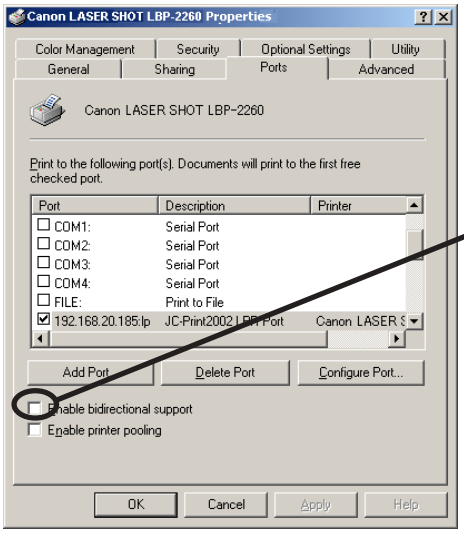
1. Click ***Start***, then ***Settings***, then ***Printer***, then open the printer property.



2. Select ***Ports.***



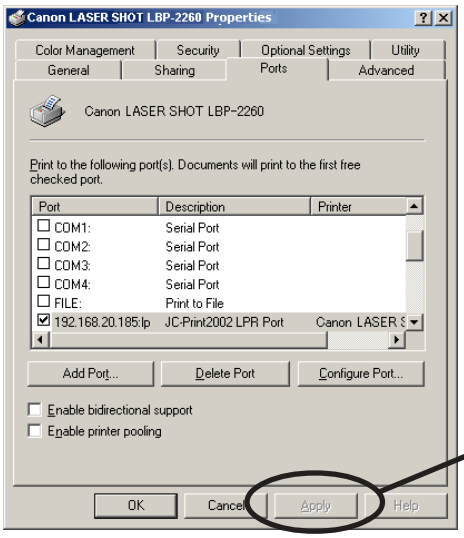
3. Configure bidirectional.



Check off ***Enable bidirectional support***.

TIP -If you use Canon Laser Shot Utility [Print Buddy II] and [NetSpot JobMonitor], check in ***Enable bi-directional support.***

4. Configuration is complete.



Click ***Apply.***

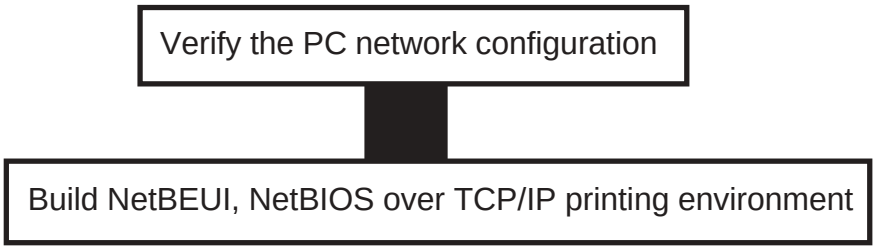
Print Using NetBEUI, NetBIOS over TCP/IP of Windows NT 4.0 and Windows 2000

Print Using NetBEUI, NetBIOS over TCP/IP of Windows NT 4.0

Follow the steps shown below to print from Windows NT 4.0, Windows 2000 and Windows XP environment using NetBEUI, NetBIOS over TCP/IP protocol.

TIP -Only PRICOM 3100 supports printing using NetBIOS over TCP/IP.

NOTE
- Make sure to install printer driver before you start using PRICOM.
- For further information on NetBEUI, NetBIOS over TCP/IP configuration, refer to Chapter 8.



Verify the Network Configuration (NetBEUI)

Make sure that ***Workstation, NetBIOS interface*** and ***NetBEUI protocol*** are added to ***Network*** of Windows NT 4.0.

1. Click ***Start***, then ***Settings***, then ***Control Panel***.

2. Double-click ***Network***.

3. Verify that ***Workstation*** and ***NetBIOS interface*** are added to the ***Services***.

NOTE -If ***Workstation*** is not in the ***Network Service*** list, click ***Add,*** then select ***Workstation*** to add Workstation.

4. Verify ***NetBEUI*** is added to ***Protocol***.

NOTE -If ***NetBEUI*** is not in the list, click ***Add***, then select ***NetBEUI*** from ***Network protocol.***

Verify the PC Network Configuration (NetBIOS over TCP/IP)

Make sure that ***Workstation, TCP/IP*** and ***NetBIOS interface*** are added to ***Network*** of Windows NT 4.0.

1. Click ***Start***, then ***Settings***, then ***Control Panel***.

2. Double-click ***Network*** icon.

3. Verify that ***Workstation*** and ***NetBIOS interface*** are added to the ***Services***.

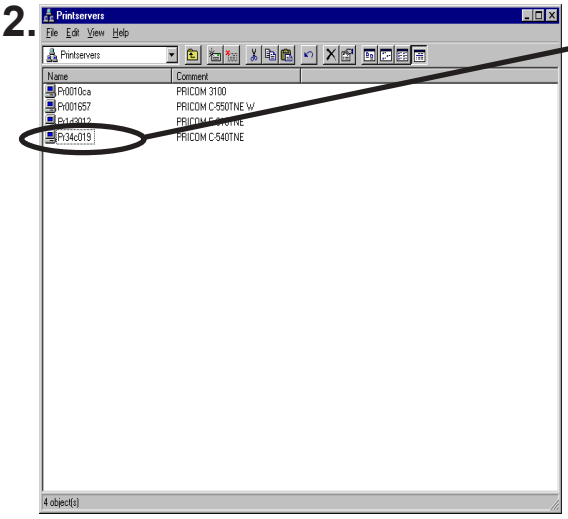
NOTE -If ***Workstation*** is not in the ***Network Service*** list, click ***Add,*** then select ***Workstation*** to add Workstation.

4. Verify ***TCP/IP*** is added to ***Protocol***.

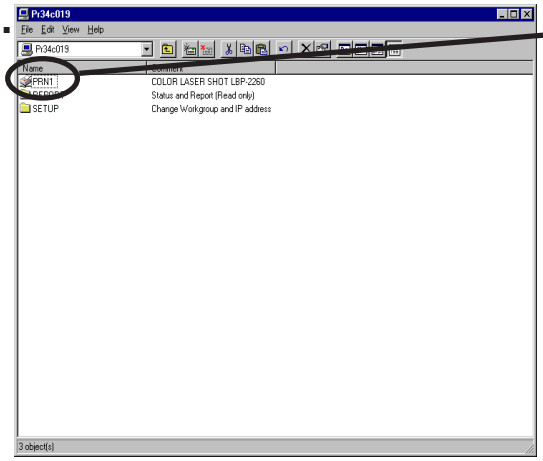
NOTE -If ***TCP/IP*** is not in the list, click ***Add***, then select ***TCP/IP*** from ***Network protocol.***

Print Using NetBEUI, NetBIOS over TCP/IP(When you use the EIO port)

1. Double-click ***Network computer***, then open group name; ***[PrintServers]*** in the Whole Network.

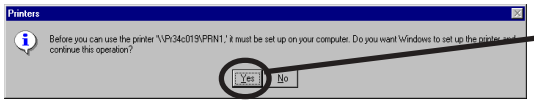
2. 

Double-click the computer (PRICOM).

3. 

Double-click the printer.

4. Confirmation message for printer configuration will be displayed.

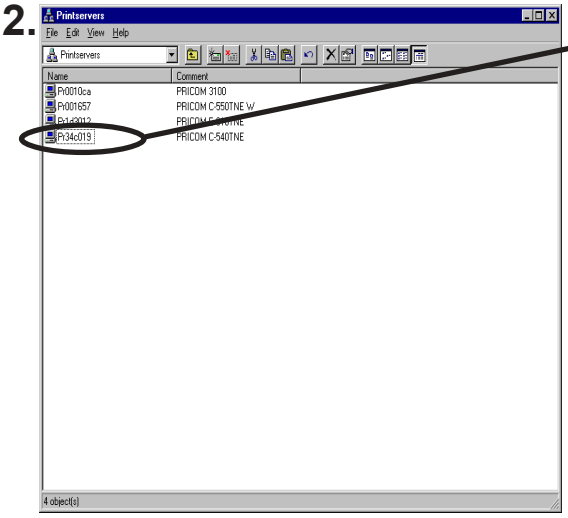


Click ***Yes***.

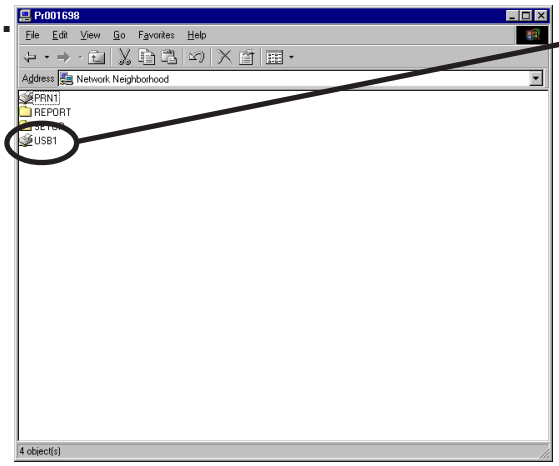
5. Printer add wizard to be started. Follow the instruction given by the wizard to complete configuration. If you get the printer test page, adding printer is complete.

Print Using NetBEUI, NetBIOS over TCP/IP(When you use the USB port)

1. Double-click ***Network computer***, then open group name; ***[PrintServers]*** in the Whole Network.

2. 

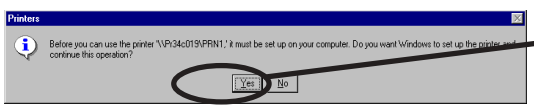
Double-click the computer (PRICOM).

3. 

Double-click the printer icon with “usb1”

NOTE -When you do not use the USB, double-click the icon for which symbol “prn1” is marked.

4. Confirmation message for printer configuration will be displayed.



Click ***Yes***.

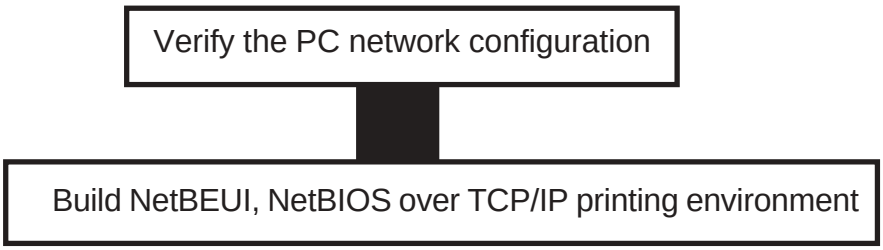
5. Printer add wizard to be started. Follow the instruction given by the wizard to complete configuration. If you get the printer test page, adding printer is complete.

Print Using NetBEUI, NetBIOS over TCP/IP of Windows 2000

Follow the steps shown below to print from Windows 2000 using NetBEUI, NetBIOS over TCP/IP protocol.

TIP -Only PRICOM 3100 supports printing using NetBIOS over TCP/IP.

NOTE
- Make sure to install printer driver before you start using PRICOM.
- For further information on NetBEUI, NetBIOS over TCP/IP configuration, refer to Chapter 8.



Verify Network Configuration

Make sure that ***NetBEUI protocol*** and ***Microsoft network shared service*** are added to the ***Network*** of the Windows 2000.

1. Click ***Start,*** then ***Settings***, then ***Control Panel,*** then ***Network and Internet Connection.***

2. Open ***Properties*** of ***Local area connection.***

3. Verify NetBEUI protocol is added.

NOTE -If ***NetBEUI*** is not in the component list, click ***Install***, then ***Protocol***, then ***NetBEUI protocol***.

4. Verify that ***Microsoft Network Client*** is added.

NOTE -If ***Microsoft Network Client*** is not in component list, click ***Install,*** then ***Client,*** then ***Microsoft Network Client.***

Verify the PC Network Configuration (NetBIOS over TCP/IP)

Make sure that ***Internet Protocol (TCP/IP)*** and ***Microsoft Network Sharing Service*** are added to ***Network*** of Windows NT 4.0 and verify if ***NetBIOS*** is configured to ***Internet Protocol (TCP/IP).***

1. Click ***Start***, then ***Settings***, then ***Control Panel***, then ***Network and Dial-up Connection.***

2. Right-click ***Local Area Connection***, then click ***properties.***

3. Verify Microsoft Network Sharing Services is added.

NOTE

-If ***Microsoft Network Sharing Services*** is not in the list, click ***Install,*** then ***Client,*** then ***Microsoft Network Sharing Services.***

4. Verify ***Internet Protocol (TCP/IP)*** is added.

NOTE

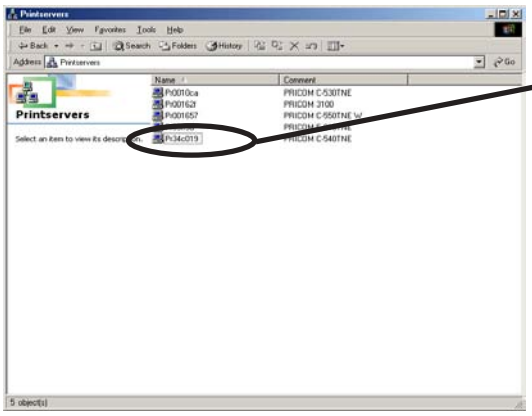
-If ***Internet Protocol (TCP/IP)*** is not in ***Components checked are used by this connection,*** click ***Install,*** then ***Internet Protocol (TCP/IP)*** to add ***Internet Protocol (TCP/IP).***

5. Verify ***Enable NetBIOS over TCP/IP*** is selected by clicking ***Internet Protocol (TCP/IP)***, then ***Properties***, then ***Details***, then ***WINS.***

Print Using NetBEUI, NetBIOS over TCP/IP(When you use the EIO port.)

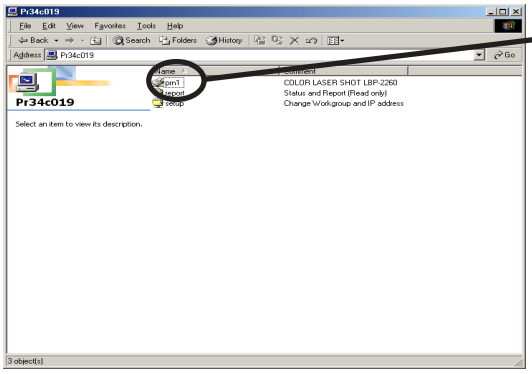
1. Double-click ***My network***, then ***Network***, then ***Microsoft Windows Network*** and open work group name, ***PrintServers.***

2.



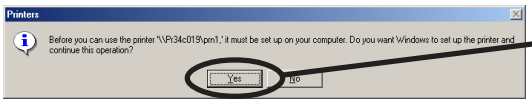
Double-click the computer (PRICOM).

3.



Double-click your computer.

4. Confirmation message for printer configuration will be displayed.



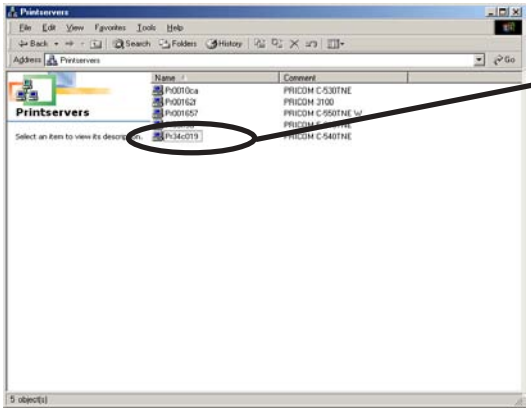
Click ***Yes***.

5. Printer add wizard to be started. Follow the instruction given by the wizard to complete configuration. If you get the printer test page, adding printer is complete.

Print Using NetBEUI, NetBIOS over TCP/IP(When you use the USB port.)

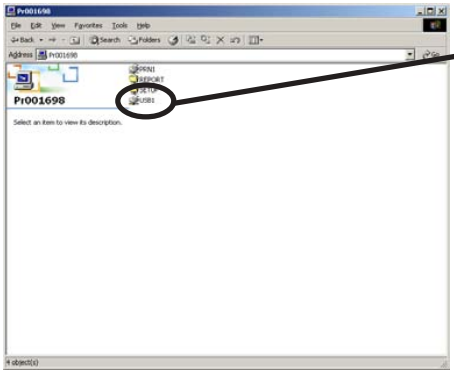
1. Double-click ***My network***, then ***Network***, then ***Microsoft Windows Network*** and open work group name, ***PrintServers.***

2.



Double-click the computer (PRICOM).

3.

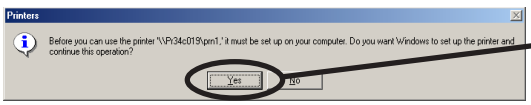


Double-click the printer icon with “usb1”

NOTE

-When you do not use the USB, double-click the icon for which symbol “prn1” is marked.

4. Confirmation message for printer configuration will be displayed.



Click ***Yes***.

5. Printer add wizard to be started. Follow the instruction given by the wizard to complete configuration. If you get the printer test page, adding printer is complete.

Print Using NetBIOS over TCP/IP of Windows XP

Print Using NetBIOS over TCP/IP of Windows XP

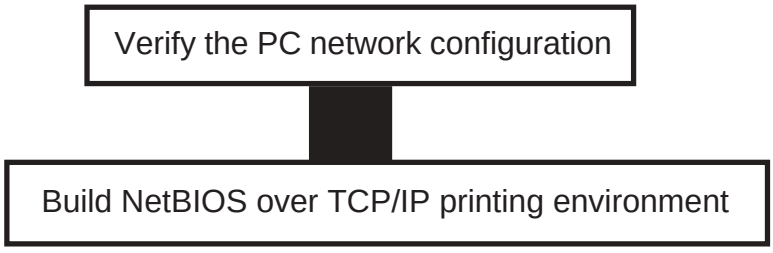
Follow the steps shown below to print from Windows XP using NetBIOS over TCP/IP protocol.

TIP

-Only PRICOM 3100 is object of this section. Other products are not applied to this section.

NOTE

- Make sure to install printer driver before you start using PRICOM.
- For further information on NetBIOS over TCP/IP configuration, refer to Chapter 8.

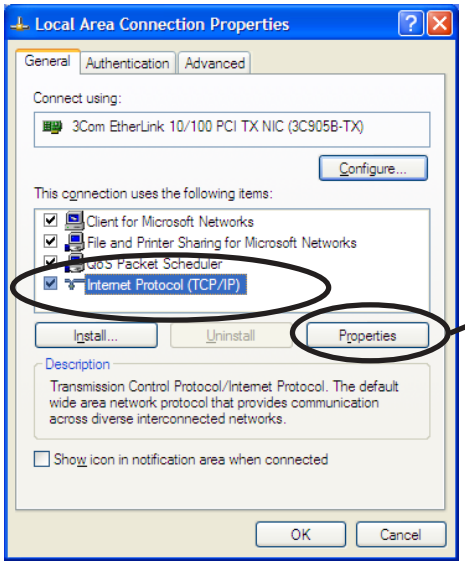


Verify the PC Network Configuration

Make sure that ***NetBIOS*** is configured in ***Internet protocol (TCP/IP)*** and ***Microsoft Network Client*** is added to ***Network.***

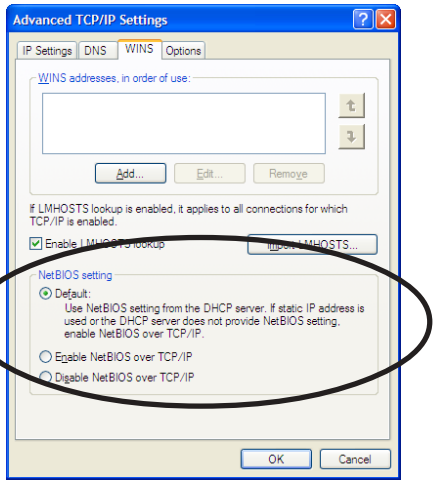
1. Click ***start***, then ***Settings***, then ***Control Panel,*** then ***Network and Internet Connection,*** then ***Network Connection.***

2. Open ***Properties*** of ***Local area connection.***

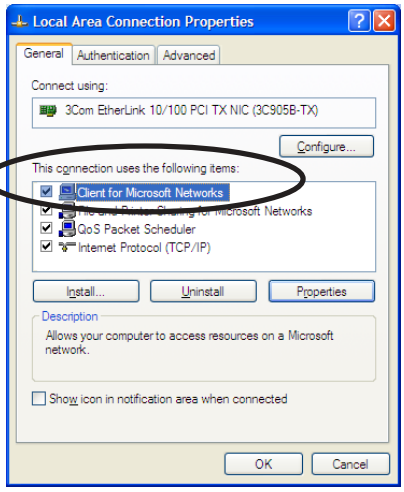


Click ***Properties.***

3. Click ***Internet protocol (TCP/IP)***, then ***Property***, then ***Details***, then ***WINS*** and verify ***Default*** or ***Enable NetBIOS over TCP/IP*** is selected for NetBIOS configuration.

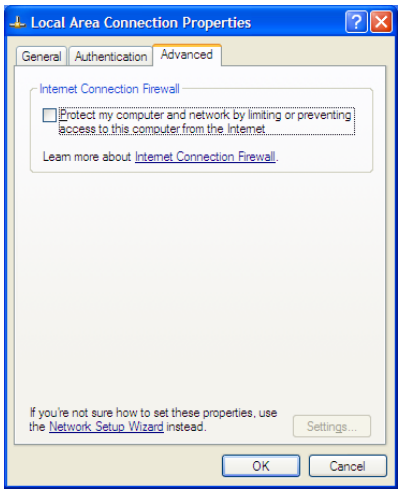


4. Verify that ***Microsoft Network Client*** is added.



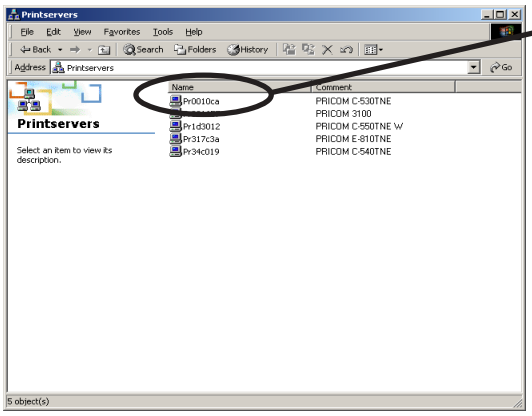
TIP

-When you use TCP/ IP protocol in Windows XP, click ***Local Area Connection Properties,*** then ***Advanced***, then remove the check from ***Protect my computer and network by limiting or preventing access to this computer from the Internet.***

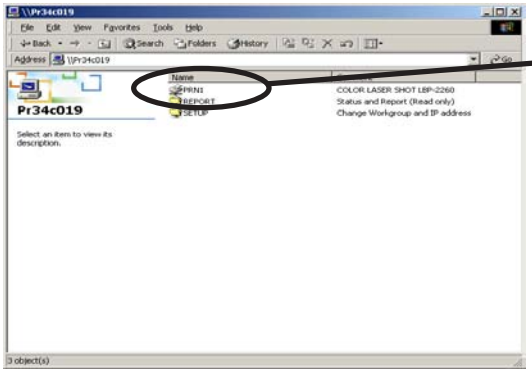


Print Using NetBIOS over TCP/IP(When you use the EIO port.)

1. Double-click ***My network,*** then ***View workgroup computers***, then ***Microsoft Windows Network*** and open work group name, ***PrintServers.***

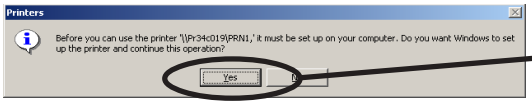
2. 

Double-click the computer (PRICOM).

3. 

Double-click the printer.

4. Confirmation message for printer configuration will be displayed.

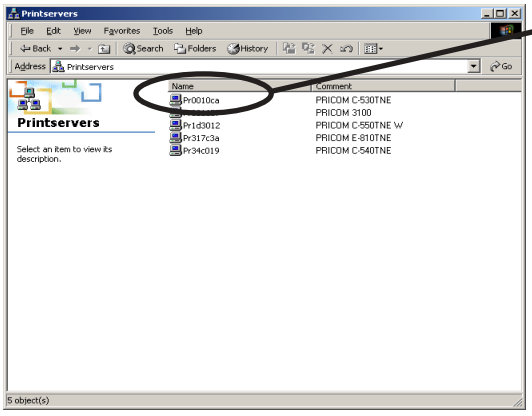


Click ***Yes***.

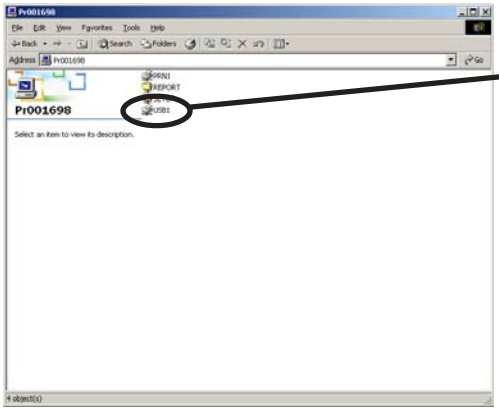
5. Follow the setting instructions given by the printer add wizard until the printer test page is output that means the end of printer adding sequence.

Print Using NetBIOS over TCP/IP(When you use the USB port.)

1. Double-click ***My network,*** then ***View workgroup computers***, then ***Microsoft Windows Network*** and open work group name, ***PrintServers.***

2. 

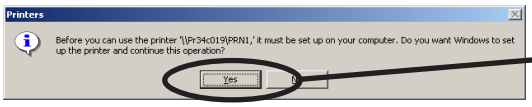
Double-click the computer (PRICOM).

3. 

Double-click the printer icon with “usb1”

NOTE -When you do not use the USB, double-click the icon for which symbol “prn1” is marked.

4. Confirmation message for printer configuration will be displayed.



Click ***Yes***.

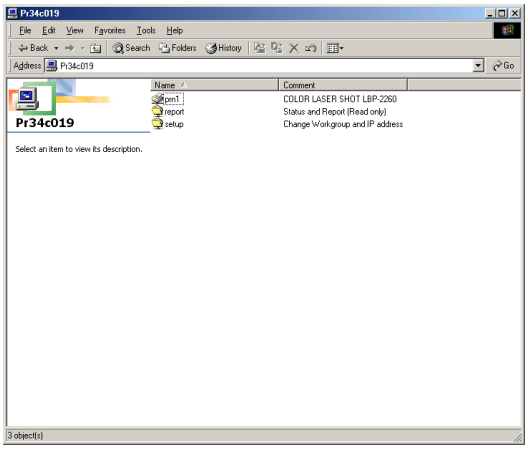
5. Follow the setting instructions given by the printer add wizard until the printer test page is output that means the end of printer adding sequence.

About NetBEUI, NetBIOS over TCP/IP

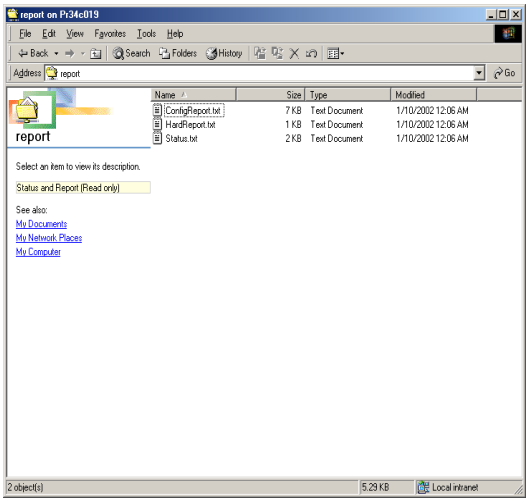
Structure of NetBEUI, NetBIOS over TCP/IP work group

This section explains about structure of NetBEUI, NetBIOS over TCP/IP work group installed in PRICOM.

Ex.): PRICOM Ethernet address: 00:80:92:34:c0:19



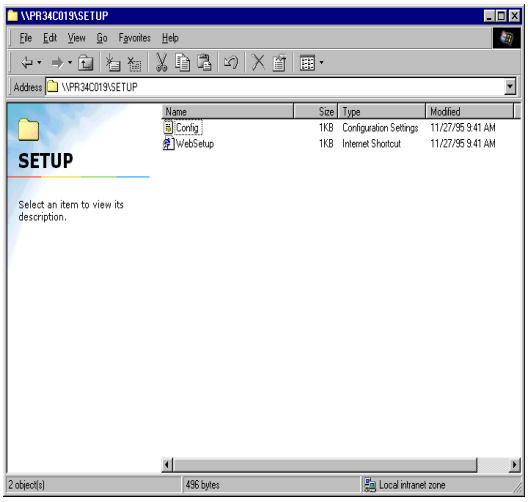
\\Pr34c019: Computer (PRICOM)
\\Pr34c019\prn1: Printer



\\Pr34c019\report\ConfigReport.txt:
Settings report (read only)
\\Pr34c019\report\Status.txt:
Diagnostic report (read only)
System status report (read only)
\\Pr34c019\report\HardReport.txt:
System status report (read only)

TIP

-Only PRICOM 3100 displays [HardReport. txt] in [report] folder.



\\Pr34c019\setup\Config.ini:
Initial setting file (can be edited)
\\Pr34c019\setup\WebSetup:
Shortcut file (read only)

- Configuration report

Outputs the internal information in PRICOM when activated.

- System status report

Outputs the information on PRICOM status when activated.

- Initial configuration file

With the initialization file, ***Work group name*** and ***IP address*** can be described. Use editor like memo pad to edit and save files in the overwrite mode. In a few seconds, PRICOM automatically resets and reboots.

By editing the initialization file and saving the file in the overwrite mode, you can change work group name and IP address.
Ex.)
Workgroup=UserGroup
IP address=192.168.20.126

Specify work group name that already exist in the whole network. In case IP address is to be automatically assigned by using DHCP/BOOTP and RARP server, the IP address typed in [IP address] will be invalid.

- Shortcut file

Once PRICOM is given IP address, shortcut (WebSetup) is created. When double-clicking the shortcut icon, web browser to be activated and PRICOM Web page to be displayed.

NOTE -For the Web browser, refer to Chapter 8.

Print Using Embedded Printing Client Function

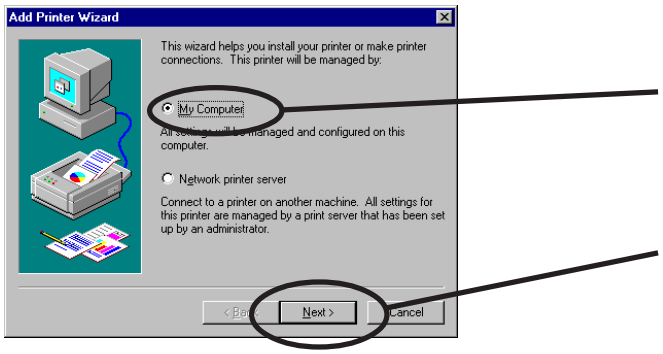
This section explains how to print using embedded printing client function.

Print Using LPR Port of Windows NT 4.0

TIP

-In order to print using LPR port, LPR port must be added. Click ***Start***, then ***Settings***, then ***Control Panel,*** then ***Network***, then select ***Services***, then click ***Add,*** then select ***Microsoft TCP/IP Printing***, then ***OK.*** Component is installed. Restart the computer.

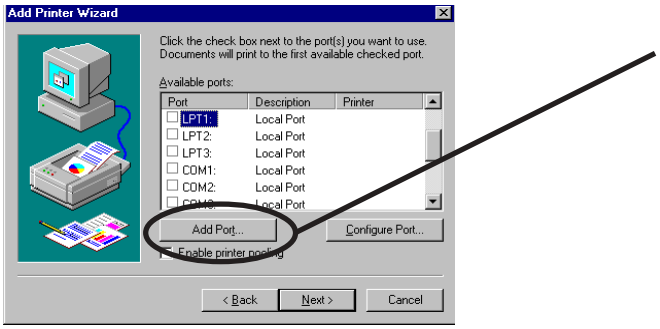
1. Click ***Start***, then ***Settings,*** then ***Printers***, then double-click ***Add Printer***.



Select ***My Computer.***

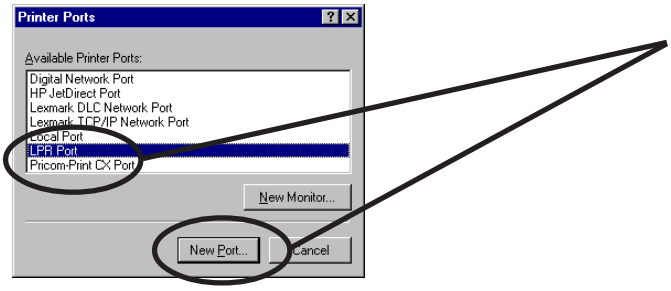
Click ***Next***.

2. Add Printer



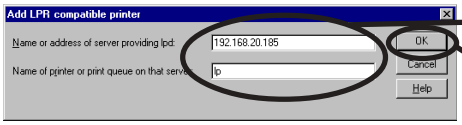
Click ***Add Port***.

3. Select the printer port.



Select ***LPR Port*** and click ***New Port***.

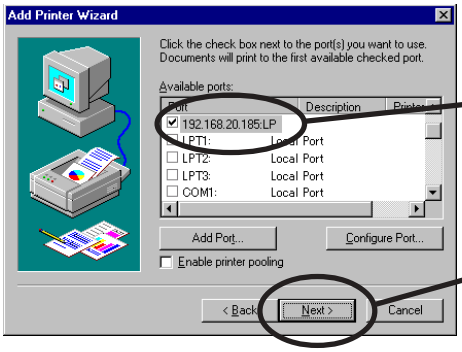
4. Add LPR compatible printer.



Type in the IP address configured to PRICOM and type in lp.

Click ***OK***.

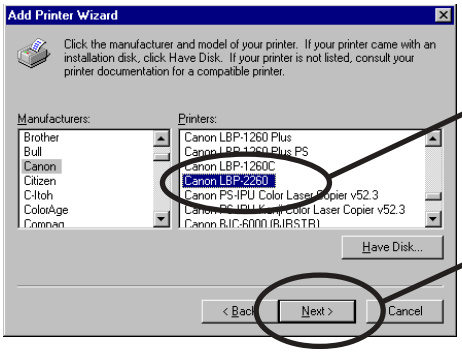
5. Verify the Printer Port.



Verify if the appropriate port is checked.

Click ***Next.***

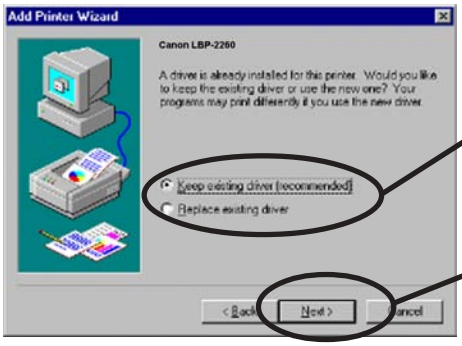
6. Select the printer driver.



Select the printer driver to be used.

Click ***Next.***

7. Verify the printer driver.



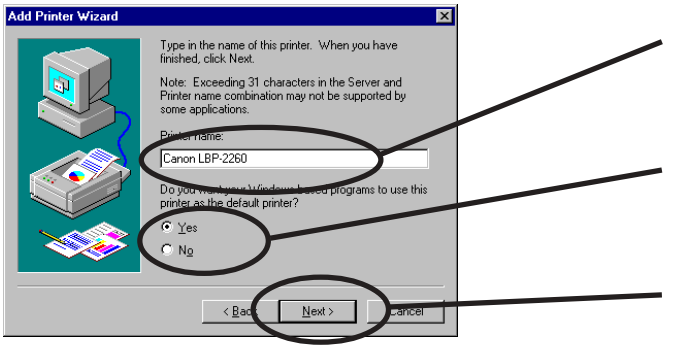
Select ***Keep existing driver (recommended)*** or ***Replace existing driver***.

Click ***Next.***

NOTE

-If installed the latest driver, select ***Replace existing driver***.

8. Register the Printer name.

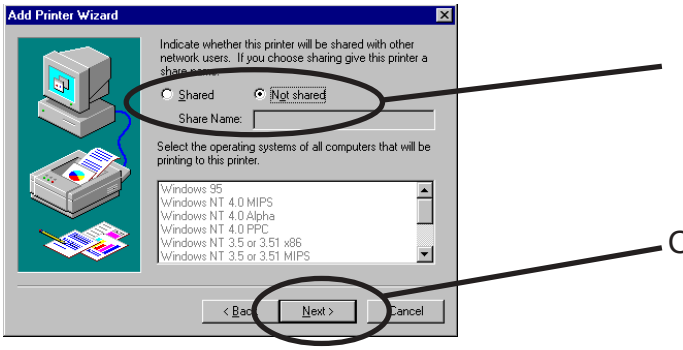


Select if use the printer as the default printer or not.

If you do not specify the printer name, use the printer name already set.

Click ***Next.***

9. Select if the printer to be shared or not .



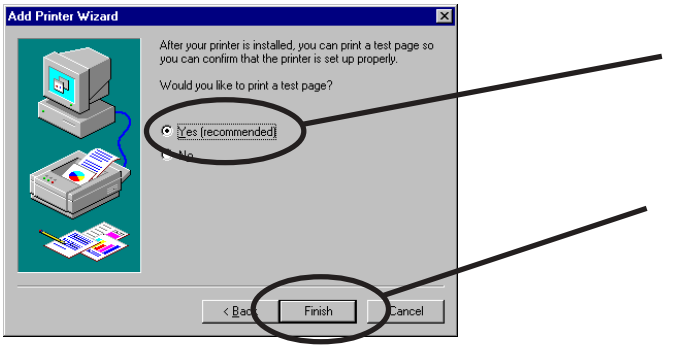
Select ***Shared*** or ***Not shared***.

Click ***Next.***

NOTE

-If the printer is shared with other computers in the same network, select ***Shared.***

10. Select if you want test print.



Select ***Yes***.

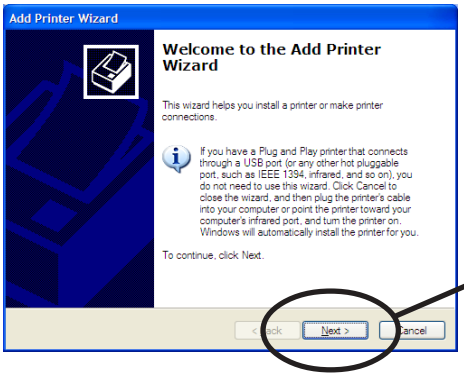
Click ***Finish.***

11. If the test page is printed properly, configuration is complete.

Print Using Standard TCP/IP Port of Windows 2000 and Windows XP

Screens displayed below are for Windows XP. If you use Windows 2000, the screen may vary.

1. Click ***start***, then ***Settings***, then ***Control Panel***, then ***Printers and Other Hadware,*** then ***Add a printer.***.

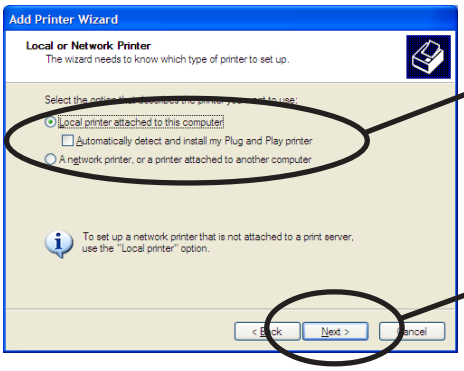


Click ***Next.***

NOTE

-If you use Windows 2000, click ***Start***, then ***Settings,*** then ***Control Panel,*** then ***Printers,*** then ***Add Printer.***

2. Select the printer to be configured.



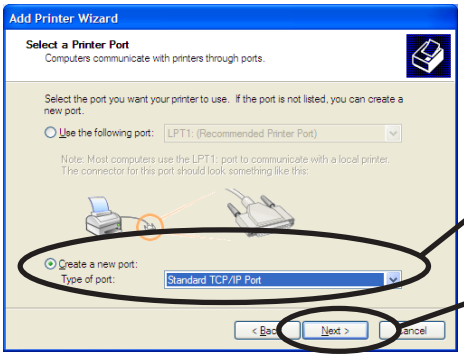
Select ***Local printer attached to this computer*** and remove the check from ***Aotomatically detect and install....***

Click ***Next***.

NOTE

-If you use Windows 2000, select ***Local Printer*** and remove the check from ***Automatically detect and...***

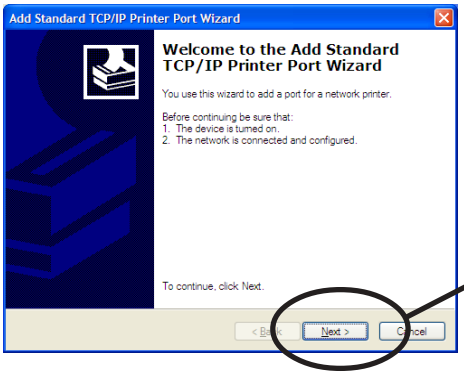
3. Select the printer port.



Check ***Create a new port*** and select ***Standard TCP/IP Port.***

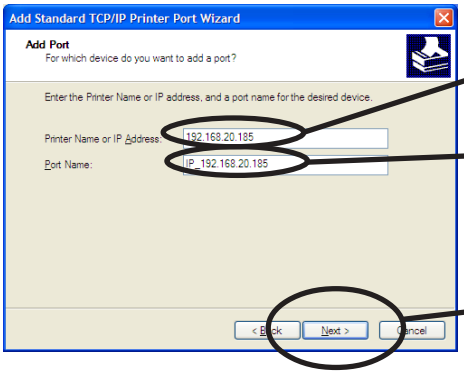
Click ***Next***.

4. Add Standard TCP/IP Printer Port Wizard will be started.



Click ***Next.***

5. Add TCP/IP Printer Port .

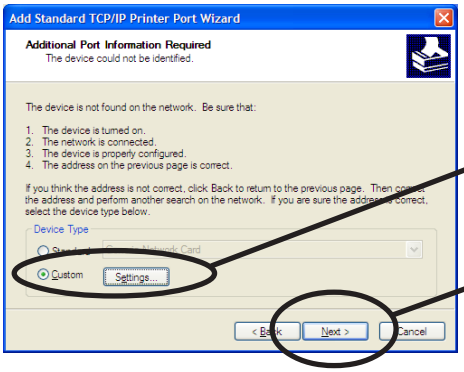


Type in the IP address configured to PRICOM.

If you do not specify the ***Port Name***, use the established code (IP_xxx.xxx.xxx).

Click ***Next.***

6. Identify the device type.

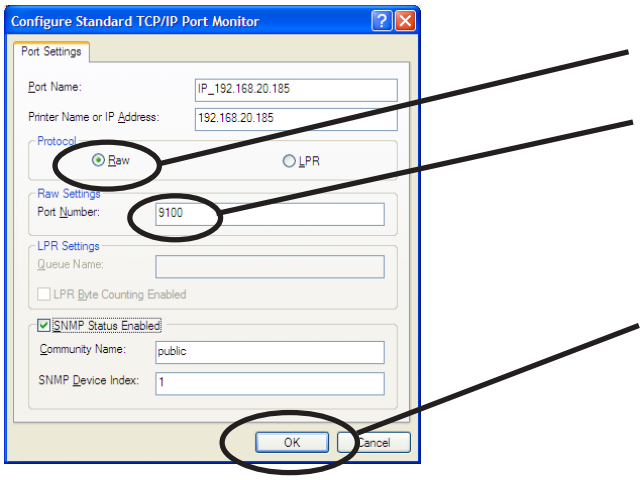


Check ***Custom*** and click ***Settings***.

Click ***Next.***

7. Type in the port information.

(A) Raw Mode



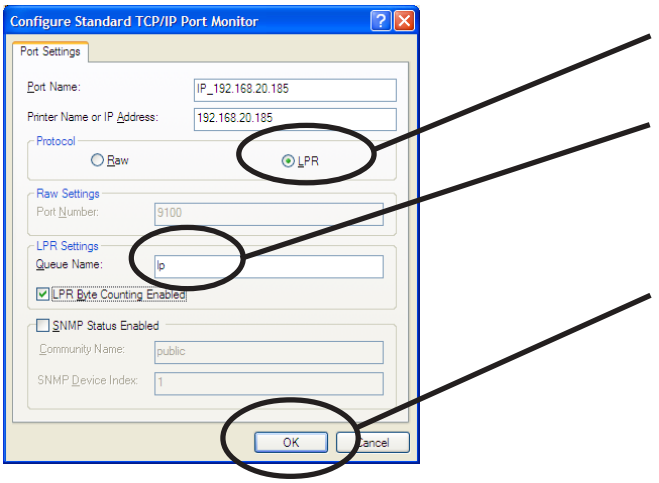
Select ***Raw***.

Type in ***9100***.

Click ***Next.***

NOTE -If you click ***OK***, the screen 6 will be displayed, then click ***Next.***

(B) LPR Mode



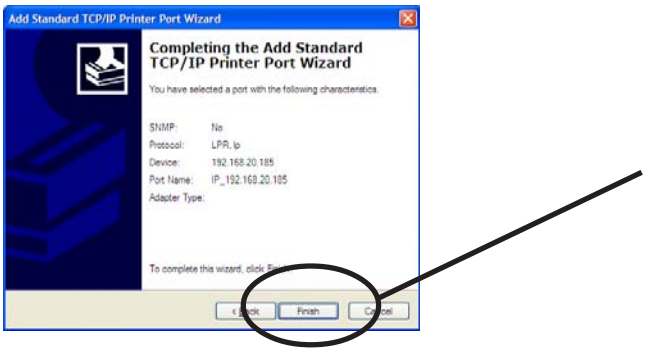
Select ***LPR***.

Type in ***lp*** and check ***LPR Byte Counting Enabled***.

Click ***OK.***

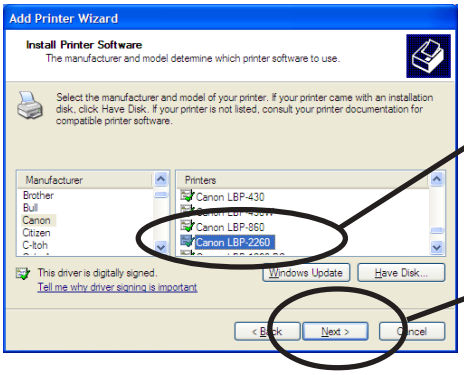
NOTE -If click ***OK***, the screen 6. will be displayed, then click ***Next***.

8. Verify the configuration.



Click ***Finish.***

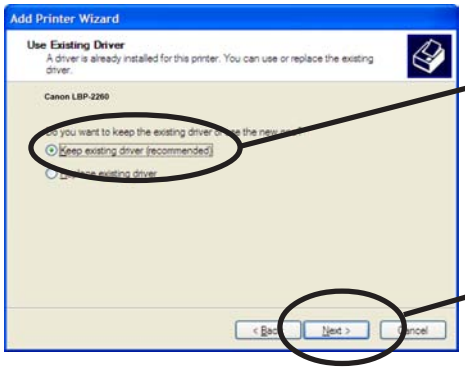
9. Select the printer driver.



Select the printer driver to be used.

Click ***Next***.

10. Verify the printer driver.



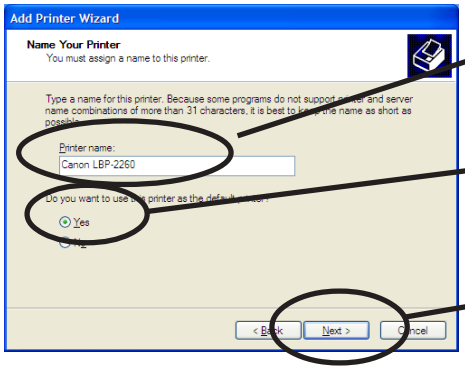
Select ***Keep existing printer driver (recommended)*** or ***Replace existing driver***.

Click ***Next.***

NOTE

-If installed the latest driver, select ***Replace existing driver***.

11. Register the Printer name.

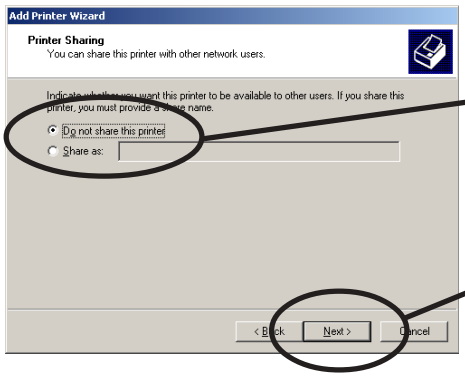


If you do not specify the printer name, use the printer name already set.

Select if use the printer as the default printer or not.

Click ***Next.***

12. Select if the printer to be shared or not.



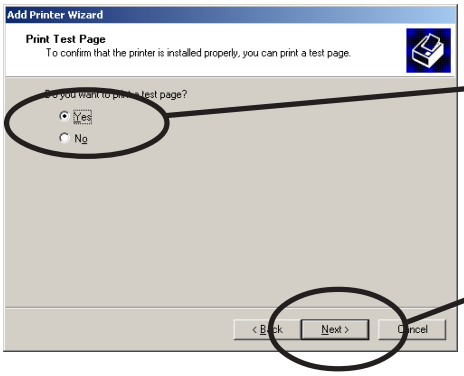
Select ***Do not share this printer*** or ***Shared as***.

Click ***Next.***

NOTE

-If the printer is shared with other computers in the same network, select ***Shared.***

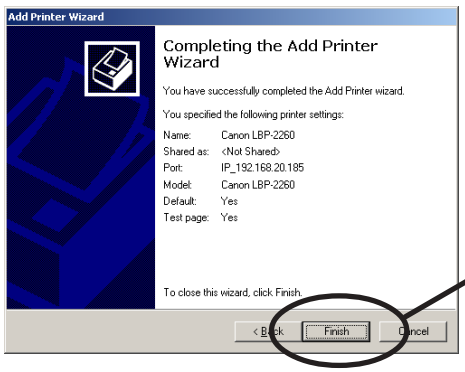
13. Select if you want test print.



Select ***Yes***.

Click ***Next.***

14. Verify the configuration.



Click ***Finish .***

15. If the test page is printed properly, configuration is complete.

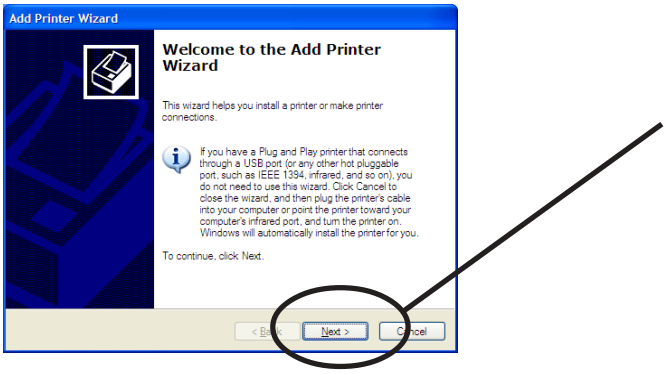
Print Using LPR Port of Windows 2000 and Windows XP

TIP

-In order to print using LPR port, LPR port must be added. Click ***Start,*** then ***Control Panel,*** then ***Add or Remove Prpgrams*** (For Windows 2000, click ***start***, then ***Settings***, then ***Control Panel***, then ***Add or Remove Programs***), then ***Add/Remove Windows Components***. ***Windows Components Wizard*** will be displayed, then click ***Components,*** then ***Other Network File and Printing Services***, then ***Details***, then ***Print Services for Unix***, then ***OK. Windows Components Wizard*** will be displayed. Click ***Finish***.

-Screens displayed below are for Windows XP. If you use Windows 2000, the screens may vary.

1. Click ***start***, then ***Control Panel***, then ***Printers and Other Hardware***, then ***Add a printer***.

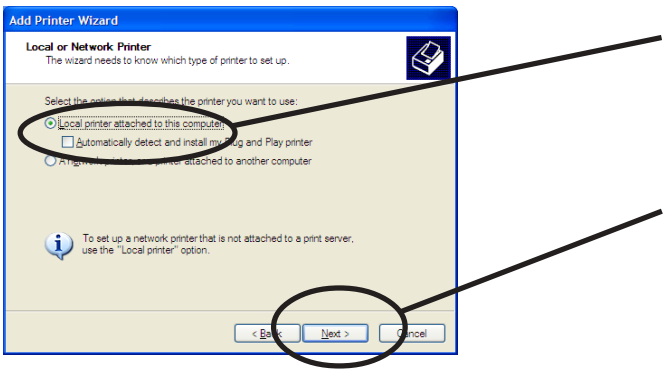


Click ***Next.***

NOTE

-If you use Windows 2000, click ***Start,*** then ***Settings***, then ***Printers***, then double-click ***Add Printer.***

2. Select the printer to be configured.



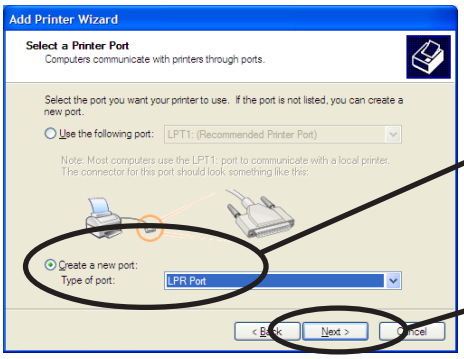
Select ***Local printer attached to this computer*** and remove the check from ***Automatically detect and ...***

Click ***Next.***

NOTE

-If you use Windows 2000, select ***Local printer*** and remove the check from ***Automatically detect and ...***

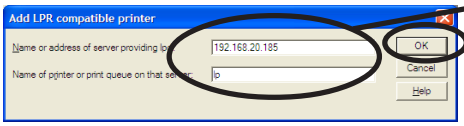
3. Select the printer port.



Check ***Create a new port*** and select ***Standard TCP/IP Port.***

Click ***Next.***

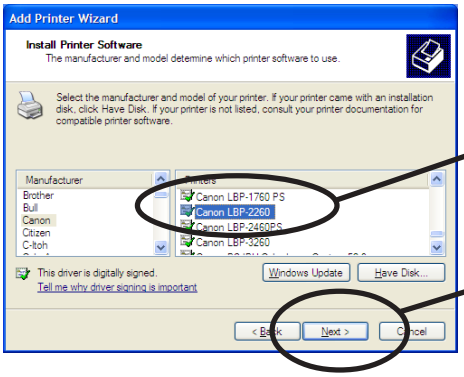
4. Add LPR compatible printer.



Type in the IP address configured to PRICOM and type in lp.

Click ***OK.***

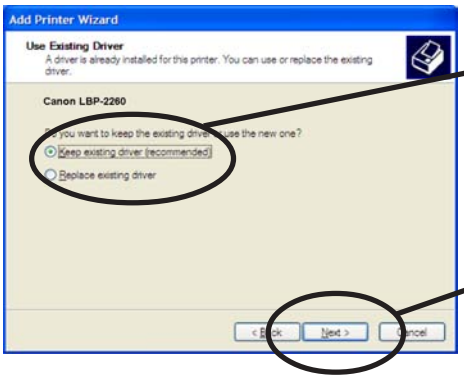
5. Select the printer driver.



Select the printer driver to be used.

Click ***Next.***

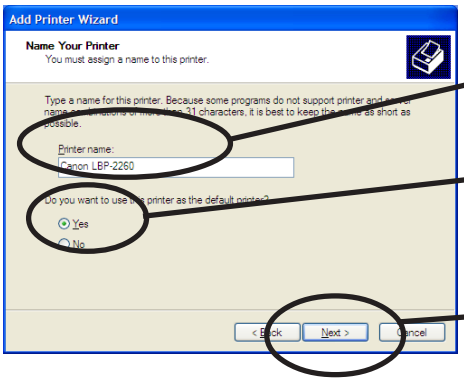
6. Verify the printer driver.



Select ***Keep existing driver (recommended)*** or ***Replace existing driver***.

Click ***Next.***

7. Register the printer name.

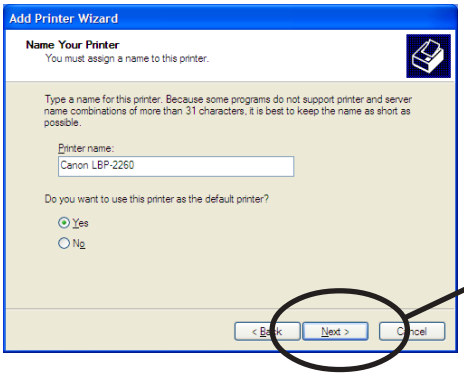


If you do not specify the printer name, use the printer name already set.

Select if use the printer as the default printer or not.

Click ***Next.***

8. Select if the printer to be shared or not .

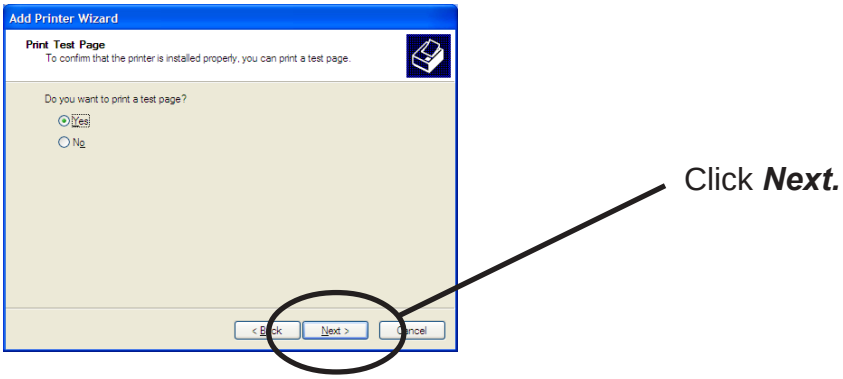


Click ***Next.***

NOTE

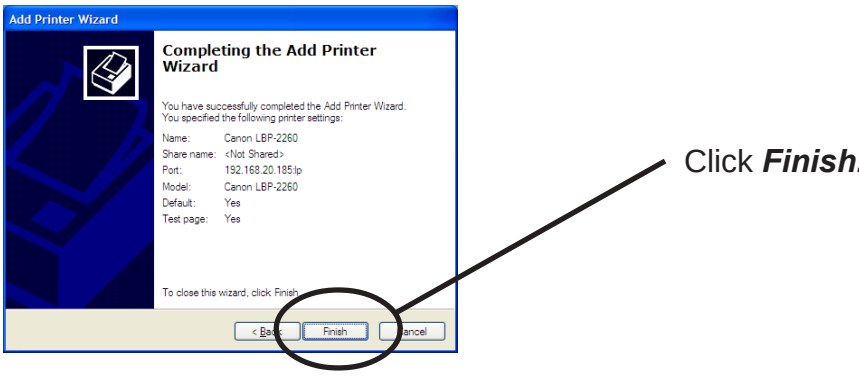
-If the printer is shared with other computers in the same network, select ***Shared as.***

9. Select if you want test print.



Click ***Next.***

10. Verify the configuration.



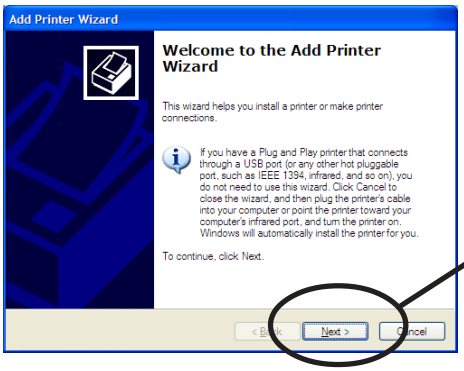
Click ***Finish.***

11. If the test page is printed properly, configuration is complete.

Print Using IPP Port of Windows 2000 and Wiondows XP

TIP -Screens displayed below are for Windows 2000. If you use Windows 2000, the screens may vary.

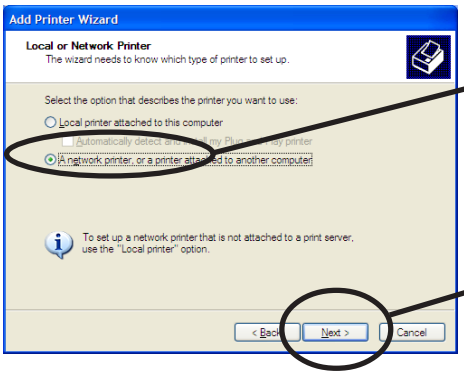
1. Click ***start***, then ***Control Panel,*** then ***Printers and Other Hardware***, then ***Add a printer***.



Click ***Next.***

NOTE -If you use Windows 2000, click ***Start***, then ***Settings,*** then ***Printers***, then double-click ***Add Printer***.

2. Select the printer to be configured.

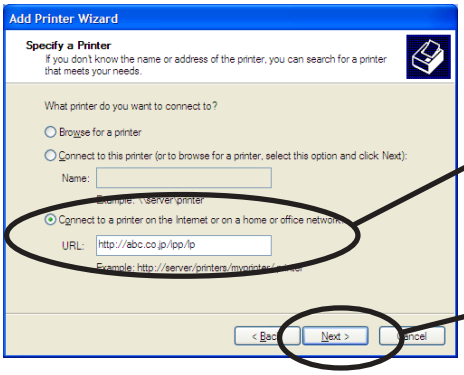


Select ***A network printer or a printer attached to another computer.***

Click ***Next***.

NOTE -If you use Windows 2000, select ***Network Printer***.

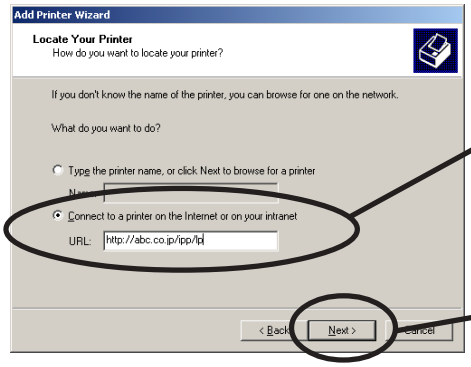
3. Type in PRICOM IP address.



Select ***Connect to a printer on the Internet or on the home/office network.*** Specify URL or PRICOM IP address.

Click ***Next.***

<Windows 2000>



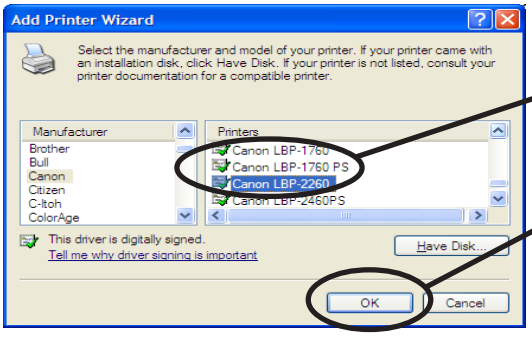
Select Connect to a printer on the Internet or intranet. Specify URL or IP address of PRICOM.

Click ***Next.***

NOTE

Ex.): When URL is “abc.co.jp”,
http://abc.co.jp/ipp/lp or http://abc.co.jp/ipp
Ex.): When IP address is “192.168.20.185”,
http://192.168.20.185/ipp/lp or http://192.168.20.185/ipp

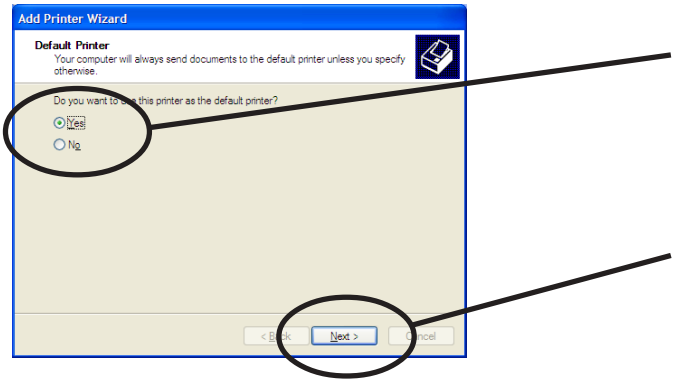
4. Select the printer driver.



Select the printer driver to be used.

Click ***Next.***

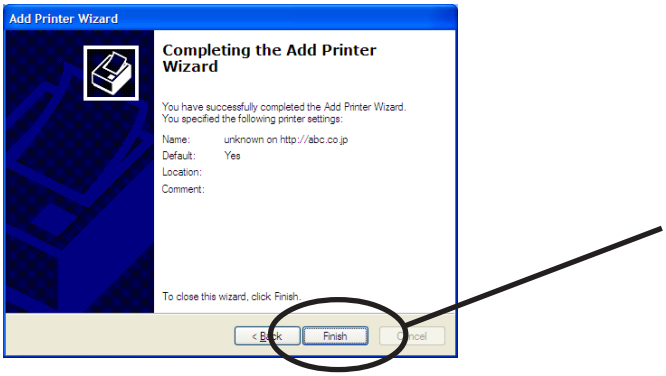
5. Configure the default printer.



Select if you want to use this printer as a default printer.

Click ***Next***.

6. Configuration is complete.



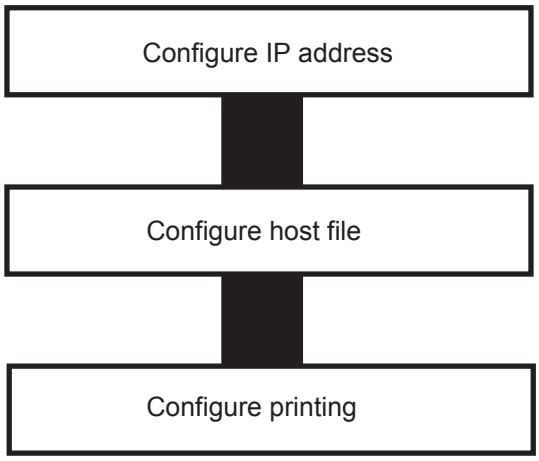
Click ***Finish.***

5. Using PRICOM in UNIX/Linux Environment

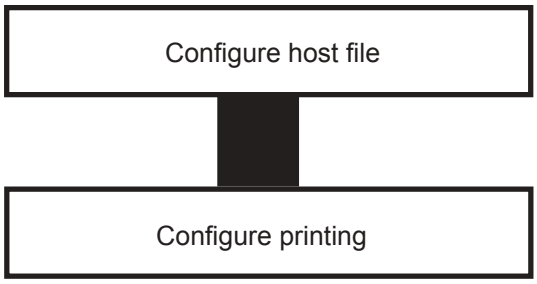
This chapter explains how to configure PRICOM in UNIX/Linux environment and how to print using LPD and FTP.
For further information not covered in this manual, refer to the manual of workstation you use.

<Procedure to execute printing in UNIX/Linux environment.>

In case of initial installation and printing
(Administrator)



In case of printing
(Client)



Configuring IP Address

NOTE -After configuring IP address, configure PRICOM by TELNET.
For information about TELNET, refer to Chapter 8 Functions for Configuration.

Configuring IP Address by BOOTP

Register the combination of IP address and Ethernet address that are to be registered on PRICOM to BOOTP server. IP address will be configured to PRICOM by turning the power on.

TIP -To configure IP address by BOOTP, you need a workstation that is running BOOTP within the network.

The below shows an example of IP address configuration by UNIX BOOTP server.

Example: Ethernet address is “00809200100f”, IP address is “192.168.10.100” and host name is “pbox”.

1. Add following configuration to /etc/bootptab.

```
pbox:\
ht=ether:\                  # Target hardware type is ETHERNET
ha=00809200110f:\               # Target hardware address
ip=192.168.10.100:\         # Target IP address
gw=192.168.10.254:\         # Default gateway address (If required)
sm=255.255.255.0:               # Target subnet mask (If required)
```

2. Add following configuration to /etc/inetd.conf.

```
bootps dgram udp wait root /etc/bootpd bootpd
```

3. Reboot inetd.

```
kill -1 1
```

4. Reset PRICOM and printer.

Configuring IP Address by RARP

Add the combination of IP address and Ethernet address that are to be registered on PRICOM to UNIX /etc/ethers and activate RARPD. IP address will be configured to PRICOM by turning the power on.

TIP

-To configure IP address by RARP, you need a workstation that is running within the network.

The below shows an example of IP address configuration by UNIX RARP server.

Example: Ethernet address is “00809200110f”, IP address is “192.168.10.100” and host name is “pbox”.

1. Add following configuration to /etc/ethers.
   00:80:92:00:11:0f 192.168.10.100 #pbox

2. Reboot RARPD.
   rarpd -a

3. Reset PRICOM and printer.

Configuring IP Address by ARP

Register the combination of IP address and Ethernet address on ARP table and execute PING.

TIP

- IP address configured in this method is temporary and will not be registered to PRICOM. Be sure to register IP address by TELNET or utility.

Example: Ethernet address is “00809200110f”, IP address is “192.168.10.100” and host name is “pbox”.

1. Switch on PRICOM.

2. Register the combination of IP address and Ethernet address on the ARP table by using ARP command.
   arp -s 192.168.10.100 00:80:92:00:11:0f temp

3. Command PING.
   ping 192.168.10.100

4. If you get reply from PRICOM, configuration is complete.
   192.168.10.100 is alive.

Configuring Host File

Register host name and IP address to UNIX or Linux hosts file.

NOTE

-Make sure to contact network administrator when editing hosts file.
-Editing hosts file may not be required if using IP administration system like DNS.

1. Log in to UNIX/Linux machine by “root”.

   # login root

2. Register PRICOM host name and IP address to /etc/hosts file.

   To edit host file, use an editor, e.g. “vi”.
   Example: The IP address is “192.168.10.100”, host name is “pbox”

```
192.168.10.98     venus     # UNIX-A
192.168.10.99     mars      # UNIX-B
192.168.10.100    pbox      # Print-Server
```

3. Switch on printer. Verify the network connection by using ping command.

   # ping pbox

TIP

-If there is no response or error is indicated, there may be problems with IP address configuration, host file editing or network status. Contact network administrator.

Printing by LPD

This section explains how to print using LPD protocol of TCP/IP.
For further information on “lpr” and “lp” commands, refer to your workstation manual.

NOTE

LPD protocol:
LPD (Line Printer Daemon) is a protocol that enables you to execute printing to a printer on the network.

Remote-Printer Queue
PRICOM has three remote printer queues.
For printing files using printer driver, use "lp". For printing text files using shift-JIS KANJI code, use "sjis". For printing text files using EUC KANJI code, use "euc".

Remote Printer	Function
lp	Direct output port
sjis	Shift- JIS KANJI code
euc	EUC KANJI code

Using PRICOM in Solaris Environment

Solaris 2.6/7/8

This section explains how to print from Solaris2.6/7/8.

The below command and path instruction may vary depending on OS version. Refer to your workstation manual.

TIP

-Remote printer can not be configured with PRICOM.

1. Create Printer Queue

1-1 Log in to UNIX machine by “root”.

```
# login root
```

1-2 Register print server name.

Example: Register the print queue name by “pboxlp”:

```
# lpadmin -p pboxlp -m netstandard -o protocol=bsd
          (Print queue name)          -o dest=pbox:lp -v /dev/null
                                        (Host name)  (Remote printer name)
```

NOTE

-The “lp” following “:” represents PRICOM remote printer name..

EUC kanji text data can be directly printed as configuring the below example.

```
# lpadmin -p pboxeuc -m netstandard -o protocol=bsd
                                    -o dest=pbox:euc -v /dev/null
                                      (Specify euc port)
```

1-3 Enable print queue.

```
#/usr/sbin/accept pboxlp
#/usr/bin/enable pboxlp
```

2. Printing

2-1 This section explains how to print using [lp] command. For more details, refer to Solaris manual.

```
# lp -d pboxlp <Name of print file>
```

This causes the banner page to be automatically printed.
To disable the banner printing feature, add the following option, “-o nobanner”.

```
# lp -d pboxlp -o nobannert <Name of print file>
```

Alternatively, type,

```
# lpadmin -p pboxlp -o nobanner
```

directly edit the filter file generated under /etc/lp/interfaces.
Either of these options disables banner print function.
Example: Using an editor e.g. vi, open the file shown below. Change “nobanner=no” to “nobanner=yes”.

```
# vi /etc/lp/interfaces/pboxlp
nobanner=no ---> nobanner=yes
```

3. Cancel the print request.

3-1 Use “cancel” command to cancel the current print job request.

TIP

-Depending on the timing or Solaris specification, canceling attempt will fail.

4. Check the printer status

4-1 Use “lpstat” to verify the printer status.

```
# lpstat -p pboxlp
```

TIP

-Depending on the UNIX specification, the command will fail to correctly display the printer status.

Solaris 2.3x-2.5x

This section explains how to print from Solaris 2.5 or below.
Command absolute path and configuration method may vary depending on OS version. Refer to your workstation manual for more details.

TIP -Remote printer can not be used with PRICOM.

1. Prepare the print queue.

1-1 Log in to the UNIX machine by “root”.

```
# login root
```

1-2 Cancel the print scheduler.

```
# /usr/sbin/lpshut
```

1-3 Register the print server.

Example: Register the host name “pbox”:

```
# /usr/sbin/lpsystem -R0 -t bsd pbox
```

1-4 Configure the print queue.

Example: Register the print queue name “pboxlp”:

```
#/usr/sbin/lpadmin -p pboxlp -s pbox!lp
```

(Name of print queue) (Name of the host) (Name of logical printer)

NOTE When using csh, replace “/!” or “\!” with “!”.
The “lp” following “!” represents the name of the PRICOM logical printer.
EUC kanji text data can be directly printed as it is by the following setup.

```
#/usr/sbin/lpadmin -p pboxeuc -s pbox!euc
```

(Specify euc port)

1-5 Activate the print scheduler.

```
#/usr/bin/sh /etc/init.d/lp start
```

1-6 Enable the print queue.

```
#/usr/sbin/accept pboxlp
#/usr/bin/enable pboxlp
```

2. Printing.

2-1 Print using "lp" command.

lp -d pboxlp <Print file name>

3. Cancel the print request.

3-1 Use the “cancel” command to cancel the current print job request.

cancel pboxlp- <Name of print file>

4. Check the printer status.

4-1 Use the “lpstat” to verify the printer status.

lpstat -p pboxlp

TIP

-Depending on the UNIX specification, the command will fail to correctly display the printer status.

TIP

[Limits]

When running PRICOM with Solaris 2.x, following limits occurs due to Solaris specifications.

1) If, after starting printing, the printer goes off line and cannot receive data for quite a while, timeout occurs on the Solaris side and then the printing continues (re-connection). This means that the data stream to the printer is discontinued, and the first page will be sent again.
2) When the printer status is displayed in the form “lpstat -p<printer name>”, optional character string returned to show the status (e.g. PrinterReady) cannot be interpreted by the Solaris. As a result, “Faulted” is displayed followed by unintentional characters.
3) When a print-related command is sent to PRICOM while the Solaris is sending data from the same machine, the command cannot function as it should. This is because Solaris cannot output another packet until it finishes the transmission of the current data. Thus, “system not responding” will be displayed in response to “lpstat -p <printer name>.
4) Certain commands such as lpstat following cancel command will result in error. In such case, printer scheduler daemon may not be running, so verify using “lpstat -r”. If “scheduler is not running” is displayed, reboot the printer scheduler daemon by typing in as below.
/bin/sh /etc/init.d/lp start
5) Even if “cancel” is used to delete a job that does not exist, no error occurs with Solaris.

Running PRICOM in HP-UX 9.x/10.x Environment

This section explains how to print from Hewlett-Packard HP-UX.
Command absolute path and configuration method may vary depending on OS version. Refer to your workstation manual for more details.

1. Set the remote spooler.

When HP-UX machine is not configured to remote spooler, follow with the below configuration.

1-1 Log in to the UNIX machine by “root”.

```
# login root
```

1-2 Cancel the printer spooler.

```
#/usr/lib/lpshut
```

1-3 Register remote spooler by adding the line shown below to /etc/inetd.conf file.

```
printer stream tcp nowait root /usr/lib/rlpdaemon -i
```

1-4 Reboot inetd.

```
#/etc/inetd -c
```

2. Prepare the print queue.

2-1 Log in to the UNIX machine through “root”.

```
# login root
```

2-2 Configure print queue.

Example: Register the print queue name as “pboxlp”:

```
#/usr/lib/lpadmin -ppboxlp -mrmodel -ormpbox
                  (Print queue name)    (Host name)

        -orplp -ocmrcmodel -osmrsmodel -ob3 -v/dev/null
       (Remote printer name)
```

NOTE

-The “lp” following “-orp” represents the name of PRICOM remote printer.
-SJIS kanji text data can be directly printed by configuring as below.

```
#/usr/lib/lpadmin -ppboxsjis -mrmodel -ormpbox
                  -orpsjis -ocmrcmodel -osmrsmodel -ob3 -v/dev/null
                 (Specify sjis port)
```

2-3 Enable the print queue.

#/usr/lib/accept pboxlp

#/usr/bin/enable pboxlp

2-4 Boot the printer spooler.

#/usr/lib/lpsched

3. Prepare for printing.

3-1 Use the print command “lp”.

lp -d pboxlp <Name of print file>

4. Cancel the print request.

4-1 Use the “cancel” command to cancel the current print job request.

cancel pboxlp- <job number>

5. Check the printer status

5-1 Use the “lpstat” to verify the printer status.

lpstat -p pboxlp

TIP

-Depending on UNIX specification, the command may fail to display the printer status correctly.

Using setnetlp Tool

TIP -setnetlp utility is available for HP-UX, ver. 10.10 or below.

Example:
IP address: 192.168.10.100
Host name: pbox
These are already registered to /etc/hosts and to be registered by “pboxlp” as a queue name.

1. Log in by root and execute /usr/sbin/setnetlp. Below menu will be displayed. Select [1) Add Printer]

```
# /usr/sbin/setnetlp


    ####################################
    #           MAIN MENU              #
    #  Network Printer Configuration   #
    ####################################

       1) Add Printer
       2) Remove Printer

       q) Quit

Please enter a selection: 1
```

2. The below menu will be displayed. Select [1) LP destination name:]

```
Please enter a selection: 1

     Configurable Parameters:            Current Settings
     ------------------------            ----------------
     0) Done. Make Configuration now!
     1) Lp destination name:             [(N/A)]
     2) Remote System name:              [(N/A)]
     3) Remote Printer name:             [(N/A)]
     4) Local Model Script:              [(N/A)]

     q) Quit

Select an item for change or select "0":1
```

3. Registered printer list will be displayed. Type in printer name to be configured following [Please enter a lp destination name:].

```
Currently used names:
----------------------------------------------------------
pbox1lp    pbox3lp

Please enter a lp destination name: pboxlp
```

4. Select [2) Remote System name]. Type in the IP address configured to PRICOM, or the host name registered to /etc/hosts after [Please enter a remote system name/ IP address:].
Host name is typed for this example.

```
Select an item for change or select "0":2
Please enter a remote system name/IP address: pbox
```

5. Select [Remote Printer name]. Type in [lp] following [Please enter a remote printer name:]

```
Select an item for change or select "0":3
Please enter a remote printer name: lp
```

6. Select [4) Local Model Script]. Model file list and prompt will be displayed. Type in model file name to be configured following [Please enter a model file:]. [PS.nlio] that is generally used by Japanese postscript is used for this example.

```
Select an item for change or select "0":4
Valid Models:
-----------------------------------------------------
ESCP            colorpro        hp2228a         hp2934a         laserjet4
HPGL1           deskjet         hp2235a         hp33440a        laserjet4Si
HPGL2           deskjet1200C    hp2276a         hp33447a        laserjet4v
HPGL2.cent      deskjet1600CM   hp2300-1100L    hp3630a         laserjet5Si
LIPS3           deskjet500      hp2300-840L     hp5000c30       laserjetIIISi
LIPS4           deskjet500C     hp2560          hp5000f100      paintjet
PCL1            deskjet550C     hp2563a         hp7440a         paintjetXL300
PCL2            deskjet850C     hp2564b         hp7475a         postscript
PCL3            deskjet855C     hp2565a         hp7550a         print_model.sh
PCL4            draftpro        hp2566b         hp7570a         quietjet
PCL4.nloo       dumb            hp2567b         hp7595a         rmodel
PCL5            dumbplot        hp256x.cent     hp7596a         rmodel.asx
PCL5.asian      fonts           hp2631g         hpC1208a        ruggedwriter
PCL5.nloo       hp2225a         hp2684a         hpc1200aj       sharedprint
PS.nlio         hp2225d         hp2686a         hpc1208a        thinkjet
colorlaserjet   hp2227a         hp2932a         laserjet

Please enter a model file: PS.nlio
```

NOTE
-Select “LIPS4 (LIPS3)” when using Canon LBP series.
-Select “ESCP” when using Epson LP series.

7. When everything is complete, the below to be displayed. Select [0) Done. Make configuration now!:] if there is nothing you want to change.

```
     Configurable Parameters:              Current Settings
     ------------------------              ----------------
     0) Done. Make Configuration now!
     1) Lp destination name:               [pboxlp]
     2) Remote System name:                [pbox]
     3) Remote Printer name:               [lp]
     4) Local Model Script:                [PS.nlio]

     q) Quit

Select an item for change or select "0":0
```

8. Make sure that the machine is not performing printing sequence, and then type in “y”.

```
Select an item for change or select "0":0

WARNING: This operation requires lp spooler be shut down.
The spooler will be running again after this operation is done.
If there are jobs currently being printed, those are reprinted in
their entirely after spooler is started again.

OK to continue? (y/n, default-n): y
```

9. This completes the printer addition procedure. Press [Return] key.

```
Printer, pboxlp, has been added.
Press the return-key to return to configuration menu...
```

10. The display returns to registration confirmation screen. Enter “q” twice to quit the setnetlp tool.

```
     Configurable Parameters:              Current Settings
     ------------------------              ----------------
     0) Done. Make Configuration now!
     1) Lp destination name:               [pboxlp]
     2) Remote System name:                [pbox]
     3) Remote Printer name:               [lp]
     4) Local Model Script:                [PS.nlio]

     q) Quit

Select an item for change or select "0":q
```

11. Execute test print to verify the proper printing operation.

Example: Printing Japanese text file

To print Japanese text file, the following options are required. (For further information, refer to HP-UX manual.)

Character code	lp option
Shift JIS	japanese
Japanese EUC	japanese.euc

11-1 Shift JIS text test print

Command examples for test print is shown below.

#lp -d pboxlp -ojapanese “en quad” location of the text

11-2 Japanese text test print

Command example for test print is shown below.

#lp -d pboxlp -ojapanese.euc “en quad” location of the text

NOTE

To delete printer registered, the below command should be typed.

#/usr/sbin/setnetlp –x <destination>

<destination> is a registered printer name.

Using PRICOM in AIX 4.x.x Environment

This section explains how to print from IBM AIX.
Command absolute path and setting method may vary depending on OS version. Refer to your workstation manual for more details.

1. Prepare the print queue.

1-1 Log in to the UNIX machine through “root”.

```
# login root
```

1-2 Add a print server.

Example: To add a host named “pbox”.

```
# ruser -a -p pbox
```

1-3 Start the remote printer daemon.

```
# startsrc -s lpd
# mkitab 'lpd:2:once:startsrc -s lpd'
```

1-4 Add a print queue by using smit command:

1-4-1 Once the command starts, shift to the option “Add printing queue”.

```
# smit mkrque
```

1-4-2 Among “Connection types”, select “remote”(a printer connected to a remote host).

1-4-3 Select “Standard processing” among “remote printing type".

1-4-4 Under “Add a standard remote queue”, configure the following items.
In addition, modify other options to match the conditions of the operating environment.

Example: To register the print queue under the name “pboxlp”.

Queue to be registered [pboxlp]
Host name of the remote server [pbox]
Name of the queue on the remote server [lp]
Type of print spooler on the remote server [BSD]
Printer name description on the remote server [any comment]

NOTE

-“lp” in the “Queue name on the remote server” line is PRICOM remote printer name.
-SJIS kanji text data can be directly printed by typing “sjis” into “Queue name on the remote server”.

2. Printing

2-1 Print using command “lp”.

lp –d pboxlp <print file name>

3. Cancel the print request.

3-1 Use the “cancel” command to cancel the current print job request.

cancel pboxlp- <job number>

4. Check the printer status.

4-1 Use the “lpstat” to verify the printer status.

TIP

-Depending on UNIX specification, the command may fail to display the printer status correctly.

Using PRICOM in BSD UNIX Environment

This section explains how to print from BSD UNIX.
Command absolute path and setting method may vary depending on OS version. Refer to your workstation manual for more details.

1. Prepare the print queue.

1-1 Log in to the UNIX machine by “root”.

```
# login root
```

1-2 Register the PRICOM to /etc/printcap file.

Example: To register a print queue by the name “pboxlp”.

```
pboxlp:\                              ----(1)
:lp=:rm=pbox:rp=lp:\                  ---(2)
:sd=/usr/spool/pboxlp:\               ---(3)
:lf=/usr/spool/pboxlp/pboxlp_errs:    ---(4)
```

<Description of parameters>

(1) Describes the printer name.
(2) lp: Device file name to connect printer.
No name designation required on the network.
rm: remote printer host name.
Type the host name registered to /etc/hosts file.
rp: Remote printer name.
PRICOM remote printer name; select either lp, sjis or euc.
(3) sd: Spool directory name. Must be the absolute path.
84) lf: Error log file name. Must be the absolute path.

1-3 Create the spool directory and error log file registered to /etc/printcap file.

Example: To create the spool directory “pboxlp” and error log file “pboxlp_errs”.

```
# mkdir /usr/spool/pboxlp                  Create the spool directory
# touch /usr/spool/pboxlp/pboxlp_errs      Create the error log file
# chown -R daemon /usr/spool/pboxlp        Change the owner to daemon
# chgrp -R daemon /usr/spool/pboxlp        Change the group to daemon
```

1-4 Check whether the lpd (printer daemon) is activated.

```
# ps aux \ grap lpd
```

If lpd is not working, run the following command using a super user account.

```
# /usr/lib/lpd&
```

1-5 Enable the print queue configured.

```
# lpc restart pboxlp
```

2. Start printing.

2-1 Use the “lpr” command.

```
# lpr -P pboxlp <print file name>
```

3. Cancel the print request.

3-1 The print job request can be cancelled by using “lprm” command.

```
# lprm -Ppboxlp <job number>
```

4. Check the printer status.

4-1 The printer status can be checked by using “lpq” command.

TIP

-Certain UNIX specifications fail to display the status correctly.
-lpq short format is UNIX compatible but the long format is specific to PRICOM to display the printer status.

Example: In case of short format

```
# lpd -P pboxlp
```

Example: In case of long format

```
# lpd -l -P pboxlp
```

Using PRICOM in Linux Environment

This section explains how to print from Linux.
Command absolute path and setting method may vary depending on OS version. Refer to your workstation manual for more details.

NOTE -For print queue creating tool of Red Hat Linux and Turbo Linux, refer to “Using Red Hat Linux print queue creating tool” and “Using Turbo Linux print queue creating tool”, respectively.

1. Prepare the print queue.

1-1 Log in to the Linux machine through “root”.

```
# login root
```

1-2 Register the PRICOM to /etc/printcap file.

Example: To register a print queue by the name “pboxlp”.

```
pboxlp:\                                    ---(1)
        :lp=:rm=pbox:rp=lp:\                ---(2)
        :sd=/usr/spool/pboxlp:\             ---(3)
        :lf=/usr/spool/pboxlp/pboxlp_errs:  ---(4)
```

<Description of parameters>

(1) Describes the printer name.
(2) lp: Device file name to connect printer.
No name designation required on the network.
rm: Host name for the remote printer
Type the host name registered to /etc/hosts file.
rp: Remote printer name.
PRICOM remote printer name; select either lp, sjis or euc.
(3) sd: Spool directory name. Must be the absolute path.
(4) lf: Error log file name. Must be the absolute path.

1-3 Create the spool directory and error log file registered to /etc/printcap file.

Example: To create the spool directory “pboxlp” and error log file “pboxlp_errs”.

```
# mkdir /usr/spool/pboxlp                   Create the spool directory
# touch /usr/spool/pboxlp/pboxlp_errs       Create the error log file
# chown -R daemon /usr/spool/pboxlp         Change the owner to daemon
# chgrp -R daemon /usr/spool/pboxlp         Change the group to daemon
```

1-4 Check whether the lpd (printer daemon) is activated.

```
# ps aux / grap lpd
```

If lpd is not working, run the following command using a super user account.

```
# /usr/lib/lpd&
```

1-5 Enable the print queue configured.

```
# lpc restart pboxlp
```

2. Start printing.

2-1 Use the “lpr” command.

```
# lpr -P pboxlp <print file name>
```

3. Cancel the print request.

3-1 The print job request can be cancelled by using “lprm” command.

```
# lprm –Ppboxlp <job number>
```

4. Check the printer status.

4-1 The printer status can be checked by using “lpq” command.

Certain Linux specifications fail to display the status correctly.
Short format of lpq is UNIX compatible but the long format to show the printer state is specific to the PRICOM.

Example: In short format

```
# lpd -P pboxlp
```

Example: In long format

```
# lpq -l -P pboxlp
```

Using Print Queue Creation Tool of Red Hat Linux

TIP

-This section explains how to print using print queue creation utility of Red Hat Linux 7.1.
Note that some steps may vary depending on Red Hat Linux version.

Example: IP address “192.168.10.100” and Host name “pbox” are registered to etc/hosts file and print queue is to be registered by the name “pboxlp”.

1. Select ***Main menu***, then ***Programs***, then ***System***, then ***Setting printer***.

2. Click ***New*** in the [printconf.gui] screen.

3. Click ***Name and alias***, then type ***pboxlp*** in ***Printer name***, then click ***Add.***

4. Type ***pboxlp*** in ***Alias***, then click ***OK.***

5. Click ***Printer type***, then select ***LPD***. Type ***pbox*** in the server and ***lp*** in the printer.

6. Select ***Printer driver*** and ***Printer option*** that correspond with your operating environment.

7. After configuration is complete, click ***OK*** in [Printer edit].

8. Verify that the printer created is displayed and selected in the [printconf.gui]. Click ***Apply***.

9. Verify the dialog message, “lpd has been successfully rebooted”, then Click ***OK.***

10. Click ***Test*** in [printconf.gui] screen. When you get test page, the configuration is complete.

Using the Print Queue Creation Tool of Turbo Linux

TIP -This section explains how to print using print queue creation utility of Turbo Linux6.0.
Note that some steps may vary depending on Turbo Linux version.

Example: IP address “192.168.10.100” and Host name “pbox” are registered to etc/hosts file and print queue is to be registered by the name “pboxlp”.

1. Select ***Main menu***, then ***Turbo Linux tool***, then ***Turbo Centro***.

2. Click ***Turboprintcfg*** in the ***Turbo Centro-GT***.

3. Click ***Add*** in ***Setting printer screen***.

3-1 Select ***Remote LPD queue*** in ***Add printer***.

3-2 Type ***pboxlp*** in ***New queue name***.

3-3 Click ***Change*** in ***LPD configuration*** of ***Change printer configuration.***
3-3-1 Type “pbox” in Host name.
3-3-2 Type “lp” in Queue name.

3-4 Click ***Change*** in Printer type, then select the printer driver that corresponds with your operating environment.

3-5 Select **Paper size** and ***Color depth*** that correspond with your operating environment.

4. Click ***OK*** in the [Printer configuration].

5. Click ***Save and Finish*** to complete the configuration.

Printing Using FTP

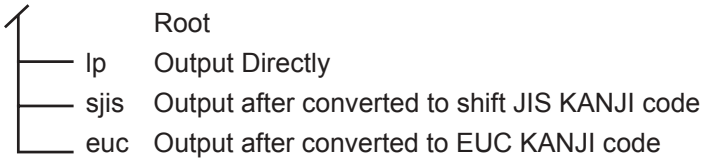
This section explains how to print using FTP of TCP/IP.
For further information on “ftp” command, refer to your workstation manual.

NOTE

About FTP
FTP (File Transfer Protocol) is a protocol used to transfer a file by TCP/IP. By transferring data to PRICOM logical directory, printing can be executed.

Logical directory
PRICOM is provided with 3 logical directories for correct printing and should be transferred by [cd] command.
To print a file using a printer driver, go to “lp” directory; to print a text file after converting it into shift JIS KANJI code file, go to “sjis” directory; to print a text file after converting it to EUC KANJI code text file, go to “euc” directory. And then transfer the converted file.

<PRICOM logical directory structure>



Printing

1. Log in to PRICOM.

TIP

-When printing using “ftp” command, any input to “User” and “Password” will not disturb printing job unless “root” is used in “User”. When the “User” name is “root”, type the password configured in environment settings.

Example: To log in to a printer whose host name is “pbox”
(or to log in to a printer having IP address “192.168.10.100”).

#ftp pbox (or **ftp 192.168.10.100**)
Connected to pbox
220 PRICOM xxxxx Ver 1.0.0 FTP Server.
User(silex:root): root
331 Password required.
Password:
230 User Logged in.
ftp>

2. Using “cd” command to move to destination directory.

TIP

-PRICOM has hierarchical structure for destination directory. Print data to the root directory is processed as output to “lp”.

Example: To move to lp directory and verify the current directory.

ftp>cd /lp
250 Command Ok.
ftp>pwd
257 "/lp" is current directory.
ftp>

3. Changing transfer mode.

NOTE -There are two kinds of transfer modes. The “ASCII” mode converts LF code to CR+LF code, and the “BINARY” mode transfers file contents. To transfer binary-converted file from the printer driver, configure the transfer mode to “BINARY” (otherwise, ASCII mode is used).

Example: To change transfer mode to BINARY and verify the current mode.

ftp>type binary
200 Type set to I.
ftp>type
Using binary mode to transfer files.
ftp>

4. Transfer the print data to PRICOM using “put” command in file form.

There are two formats for transferring a file using “put” command.

Example: To transfer print data “test.prn”.

ftp>put test.prn

To transfer print data to the directory specified by “/users/test/test.prn”.

ftp>put /users/test/test.prn /lp

NOTE -When printing data by specifying the directory, specify the destination logical directory. Not necessary to move directory using the cd command.

5. Use “quit” command to log out from PRICOM.

ftp>quit

Checking the status

NOTE

-By using “stat” of "quote" command, IP address, use name for log in and transfer mode can be verified.
-By specifying the directory (lp, sjis, euc) following “stat”, the printer status can be checked.

Example: To display the Ethernet board status.

ftp>quote stat
211-FTP server status:
Connected to: 192,168,10,100
User logged in: guest
Transfer type: BINARY
Data connection:Closed.
211 End of status.
ftp>

To display the printer status (directory name: lp).

ftp>quote stat /lp
211-FTP directory status:
Ready
211 End of status.
ftp>

6. Using PRICOM in NetWare

This chapter explains how to configure PRICOM and NetWare server to print from NetWare environment.

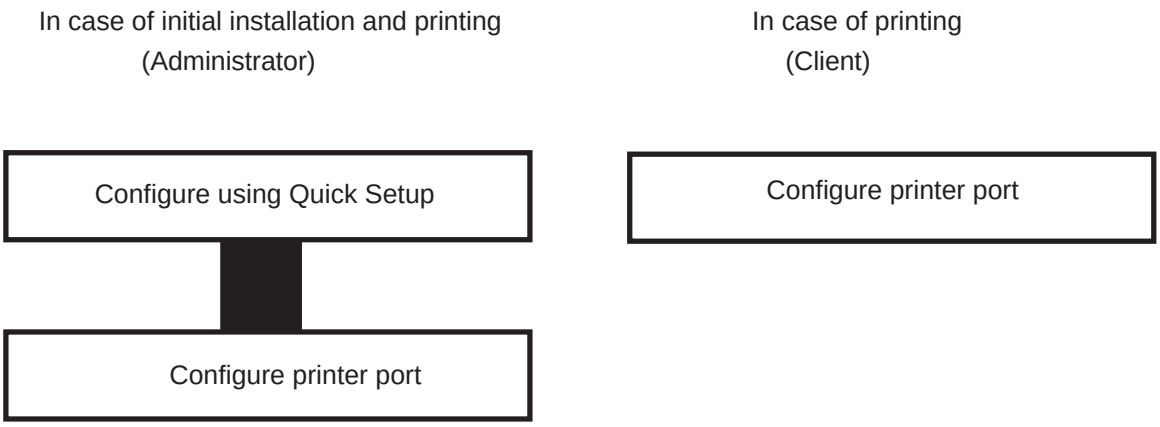
TIP

-Make sure the Novell client software has already been installed on the client and NetWare server is on the network.
-Make sure to install printer driver before you start using PRICOM.

NOTE

-NetWare server can be configured by either silex configuration utility (Quick Setup or AdminManager) or Novell utility, PCONSOLE.
-When configuring by AdminManager, refer to Chapter 8.

<Preparation for printing in NetWare environment>



Printing in NetWare Environment

Verifying NetWare Environment

When printing from NetWare client, configuration may vary depending on NetWare environment. For further information, contact your network administrator.

When the client is connected to the NetWare server using bindery mode:

→ go to 6.3

When the client machine is connected to the NetWare server using NDS mode:

→ go to 6.11

TIP

-Only PRICOM 3100 supports NDS connection.

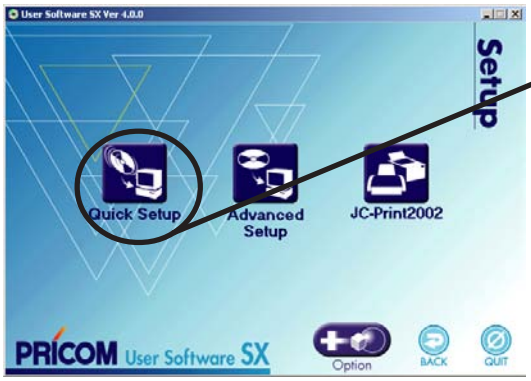
Using Bindery Mode

Configuration Using Quick Setup

1. Insert the User Software SX in the CD-ROM drive of your Windows PC. The main menu screen will be displayed.

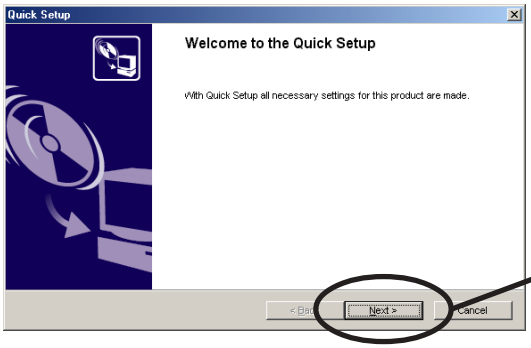
Select ***Setup.***

2. The below screen will be displayed.



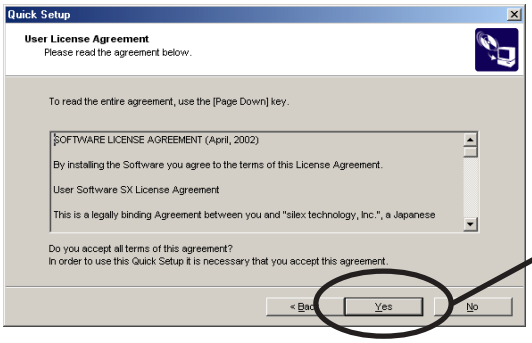
Select ***Quick Setup.***

3. Quick Setup loads.



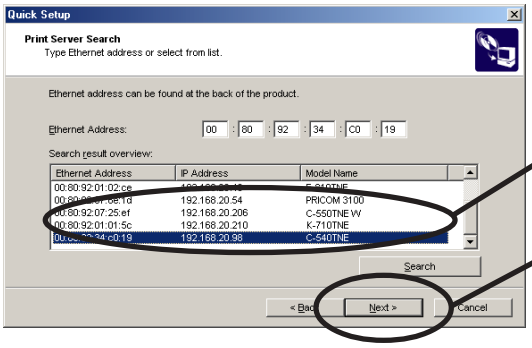
Click ***Next.***

4. Confirm the Software License Agreement.



Read the agreement and click ***Yes*** if you accept it.

5. Select PRICOM to be configured.



Select PRICOM to be configured.

Click ***Next.***

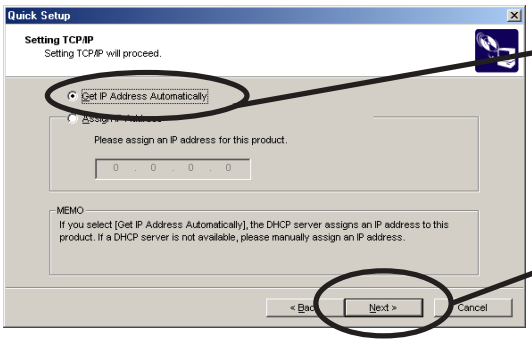
NOTE

-If PRICOM does not appear in the list, click ***Search***. You can search PRICOM by typing in Ethernet address directly.

6. Assign an IP address.

When you have DHCP server in your environment.

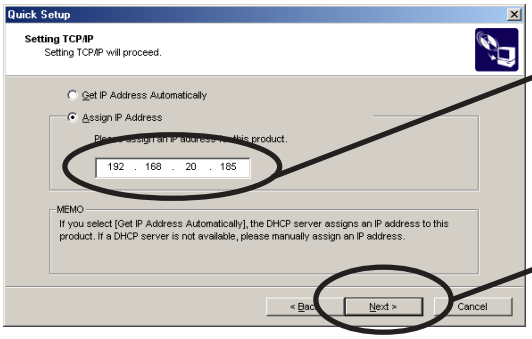
(A) Obtain an IP address from DHCP server automatically.



Select ***Get IP address automatically.***

Click ***Next.***

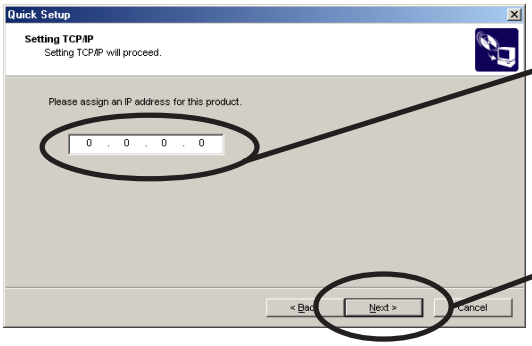
(B) Assign an IP address manually.



Assign the optional IP address.

Click ***Next.***

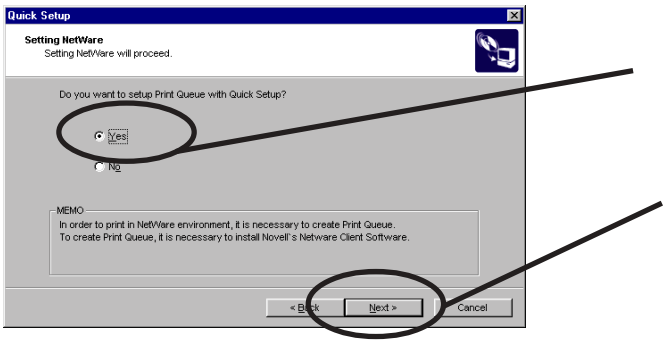
When you do not DHCP server in your environment.



Assign the optional IP address.

Click ***Next.***

7. Configure NetWare.

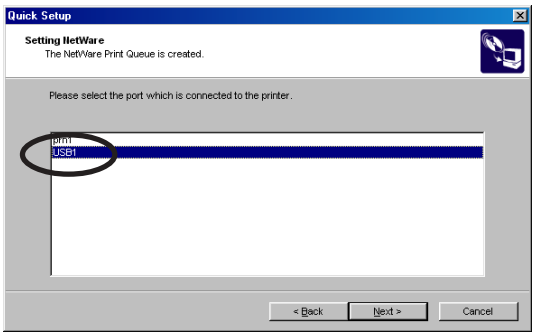


Click ***Yes.***

Click ***Next.***

.

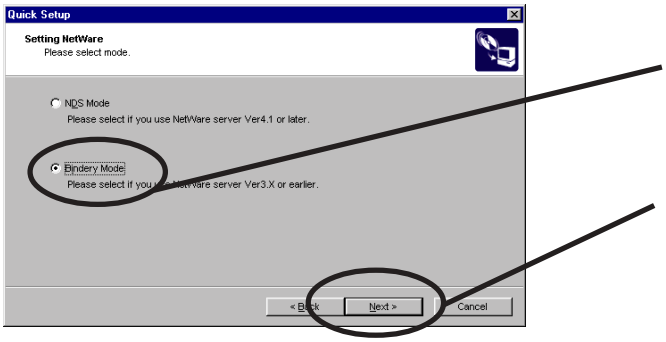
8. Select the port where the printer is connected.
Select “USB1.”



-When you do not use the USB port, select “lp.”

NOTE

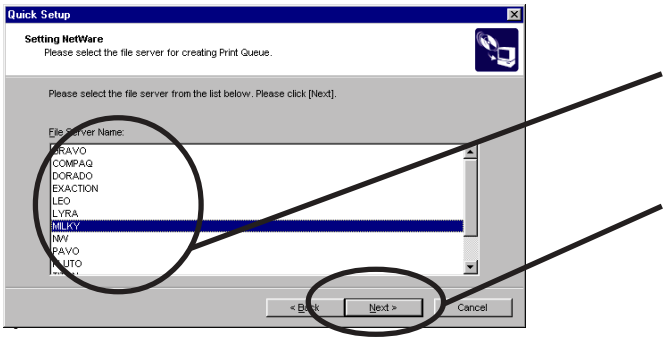
9. Select the operation mode of the NetWare server.



Select ***Bindery mode.***

Click ***Next.***

10. Select the file server to create a print queue.



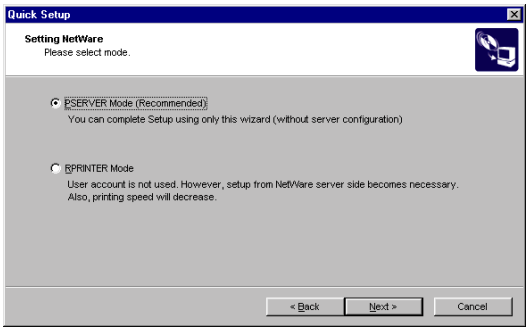
Select the file server.

Click ***Next.***

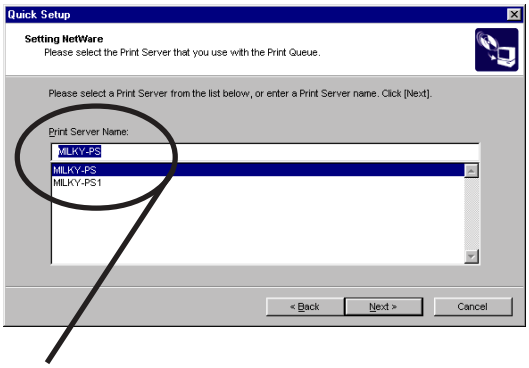
TIP

-The next screen to be displayed vary depending on NetWare server selected.
NetWare 3 or below will go to ->10 (A)
NetWare 4 or above will go to ->10 (B)
-When NetWare 4 or above file server is selected, print server mode will be automatically selected.

10(A). Select printing mode. **<NetWare 3 or below>**

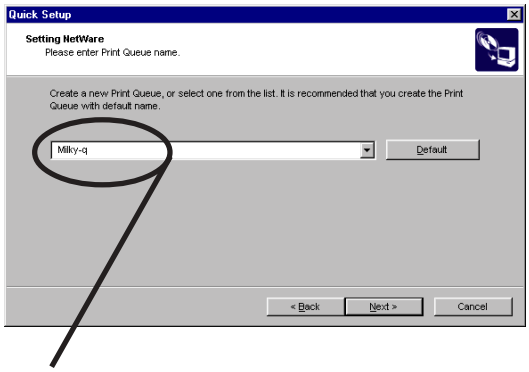


<Remote printer mode>

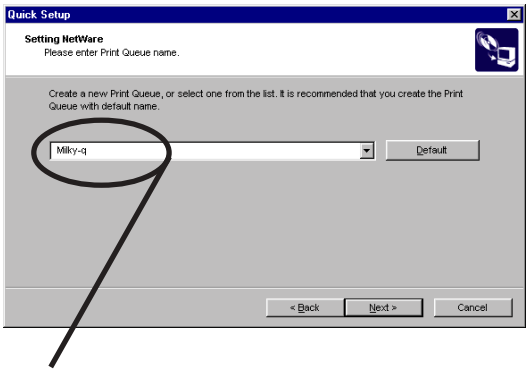


Select print server.

<Print server mode>

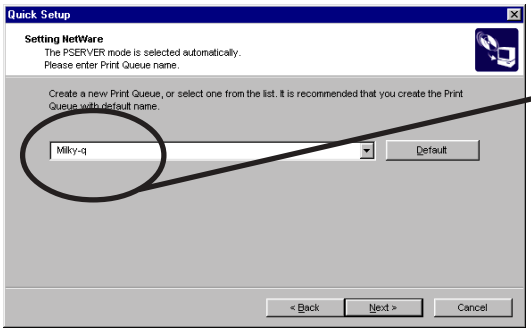


Type print queue name.



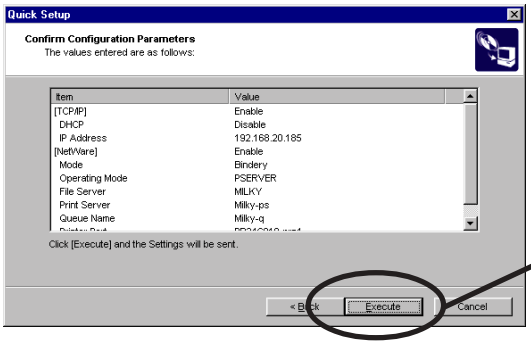
Type print queue name.

10(B). Type print queue name. **<NetWare 4 or above>**



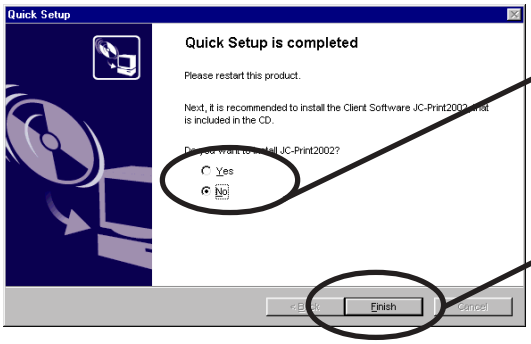
Type the print queue name.

11. Verify the configuration parameters.



Click ***Execute.***

12. Setup is complete.



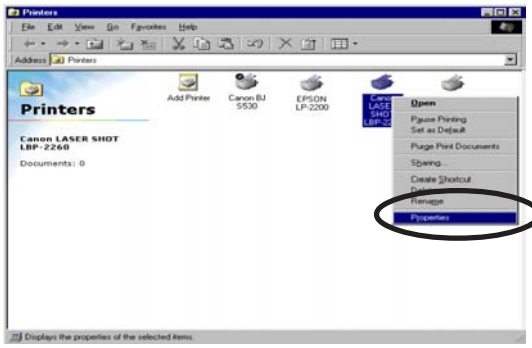
Select ***No.***

Click ***Finish.***

Configuring Printer Port

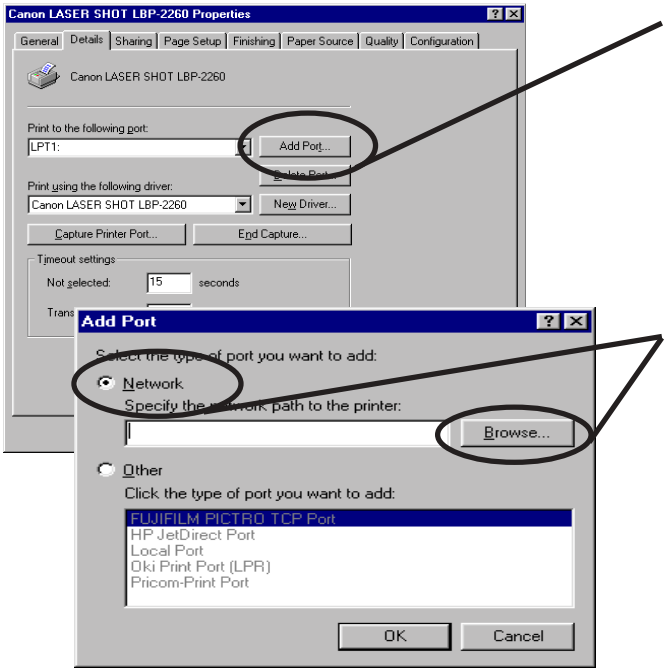
This section explains how to configure printer port to printer in Windows 95/98/Me.
For configuring printer port in Windows NT 4.0, Windows 2000 or Windows XP, refer to the below description.

1. Click ***Start***, then ***Settings***, then ***Printe***r. Open the ***Properties*** of printer you use.



Select ***Properties*** of the printer to be used.

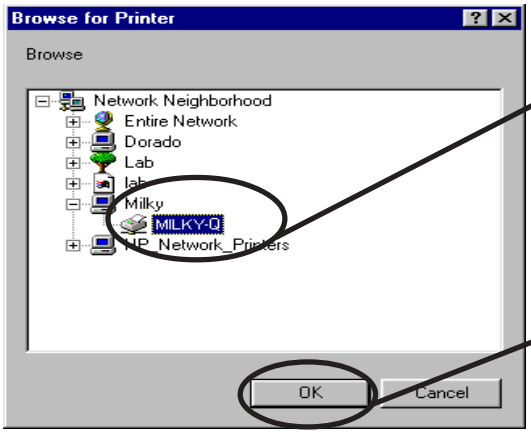
2. Move to ***Details.***



Select ***Add Port.***

Select ***Network*** and Click ***Browse.***

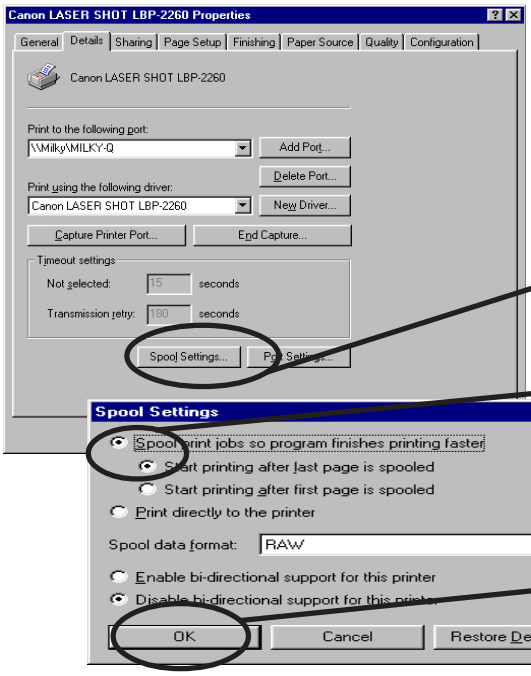
3. Assign a print queue to the printer port.



Select the print queue to use.

Click ***OK.***

4. Configure spool settings.



Select ***Spool Settings.***

Select ***Start printing after the last page is spooled.***

Click ***OK.***

5. Configuration is complete. Click OK and close Properties.
Now, the printer can be used in NetWare environment.
Execute test print and confirm if it's printed properly.

Using NDS Mode

TIP

-Only PRICOM 3100 supports NDS connection.

Configure Using Quick Setup

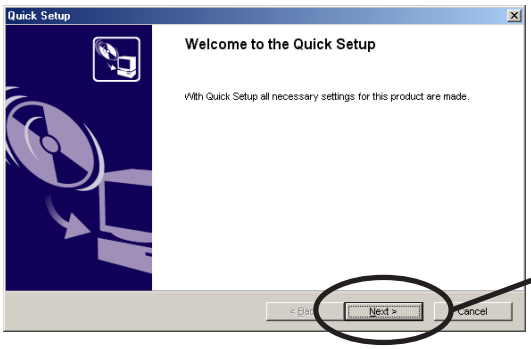
1. Insert the User Software SX in the CD-ROM drive of your Windows PC. The main menu screen will be displayed.

Select ***Setup.***

2. The below screen will be displayed.

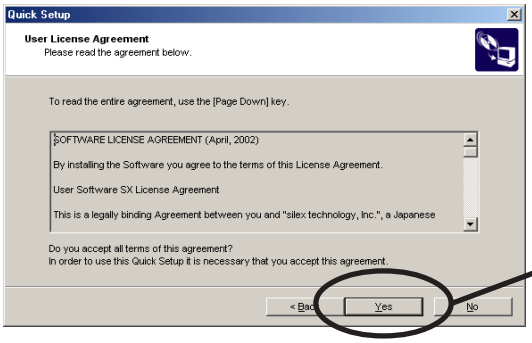
Select ***Quick Setup.***

3. Quick Setup loads.



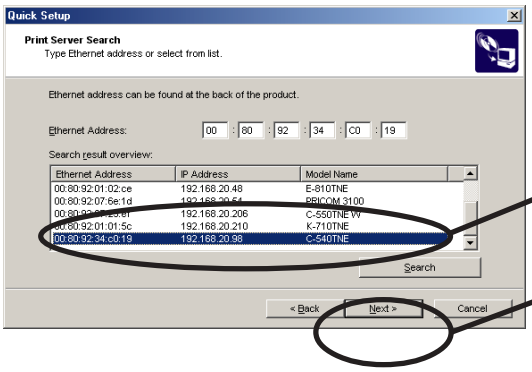
Click ***Next.***

4. Confirm the Software License Agreement.



Read the agreement and click ***Yes*** if you accept it.

5. Select PRICOM to be configured.



Select PRICOM to be configured.

Click ***Next.***

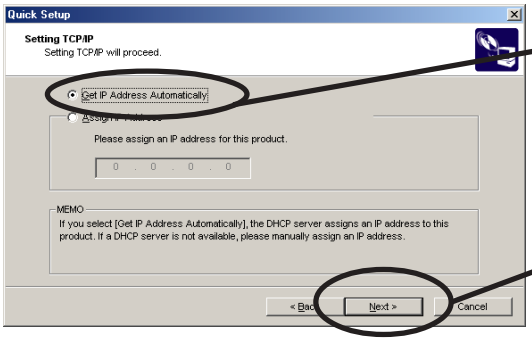
NOTE

-If PRICOM does not appear in the list, click ***Search***. You can search PRICOM by typing in Ethernet address directly.

6. Assign an IP address.

When you have DHCP server in your environment

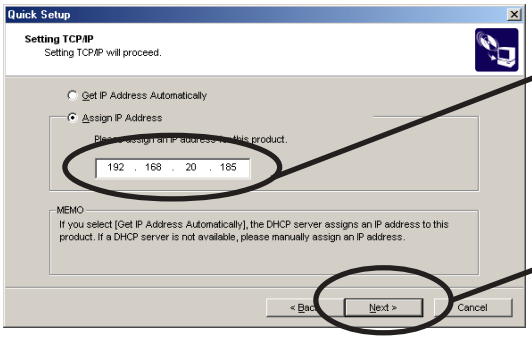
(A) Obtain an IP address from DHCP server automatically.



Select ***Get IP address automatically.***

Click ***Next.***

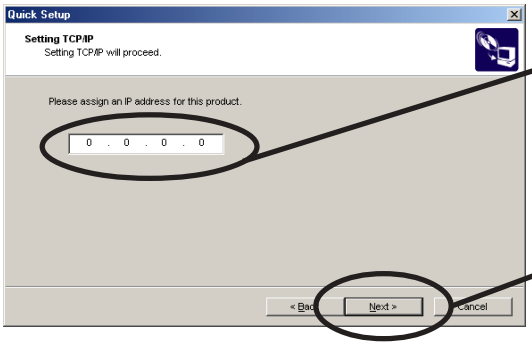
(B) Assign an IP address manually.



Assign the optional IP address.

Click ***Next.***

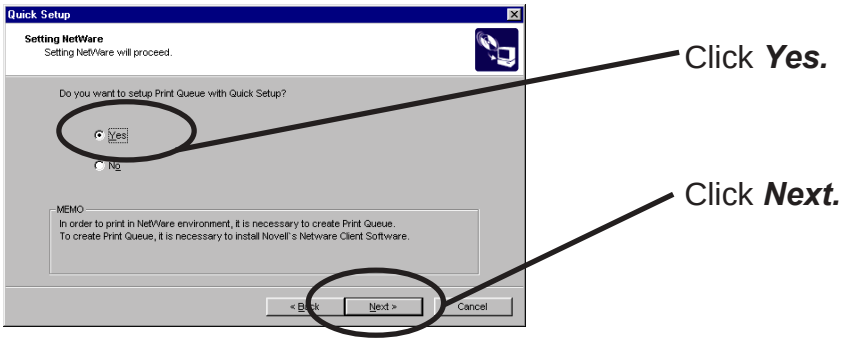
When you do not DHCP server in your environment.



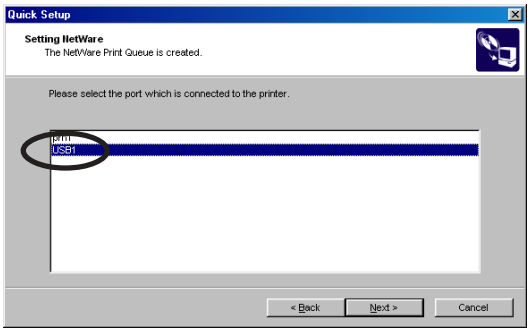
Assign the optional IP address.

Click ***Next.***

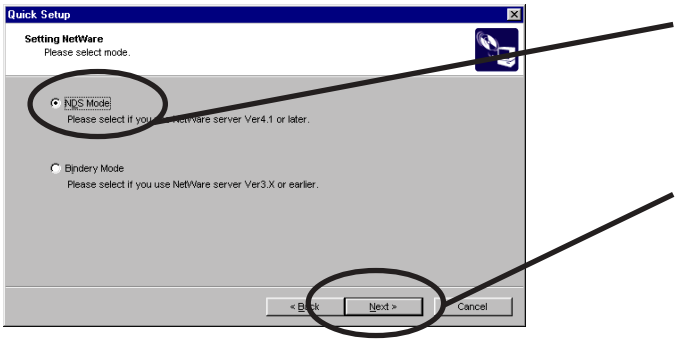
7. Configure NetWare.



8. Select the port where the printer is connected.
Select “USB1.”



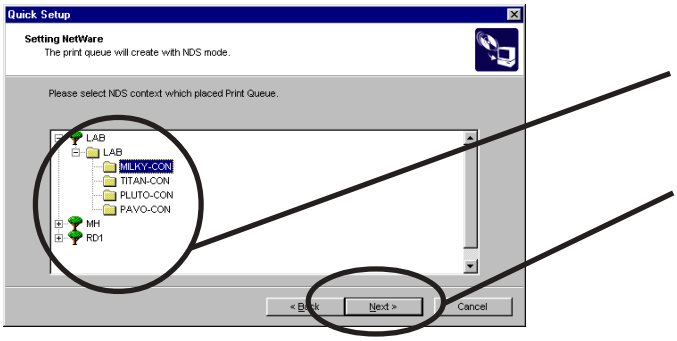
8. Select the operation mode of NetWare server.



Select ***NDS mode.***

Click ***Next.***

9. Select the NDS context for which the print queue is to be created.



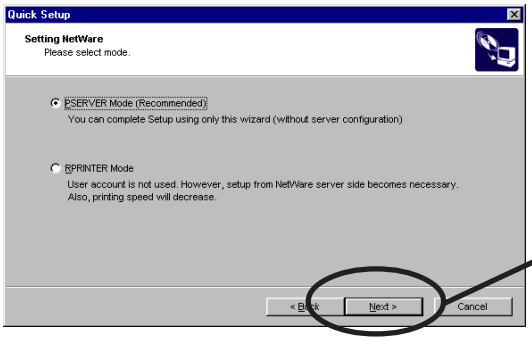
Select NDS context.

Click ***Next.***

TIP

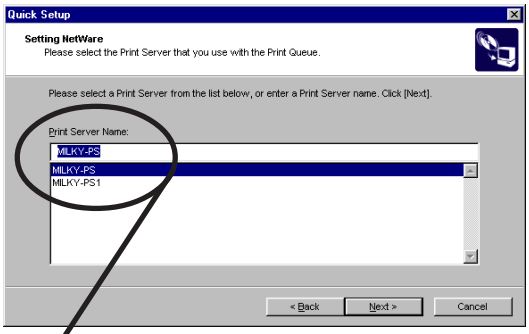
-The next screen to be displayed vary depending on if NDS supported or not.
NDS support will go to ->10 (A)
NDS non-support will go to ->10 (B)
-When NDS non-support, remote printer mode will be automatically selected.

10(A). Select printing mode. **<NDS support>**



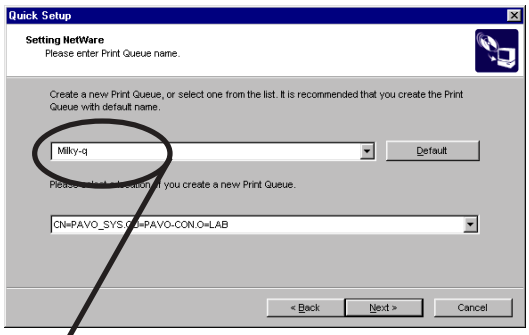
Click ***Next.***

<Remote printer mode >

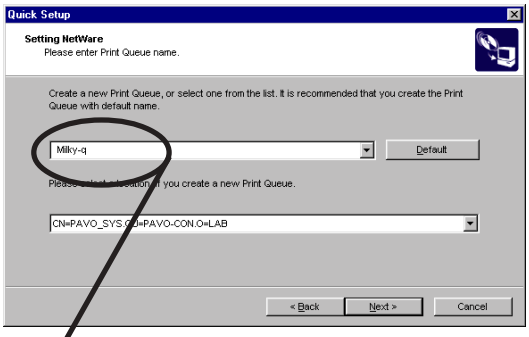


Select print server.

<Print server mode>

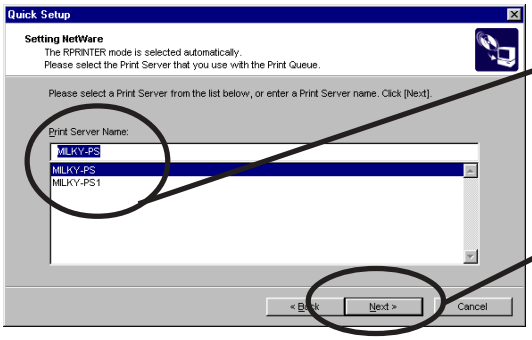


Type print queue name.



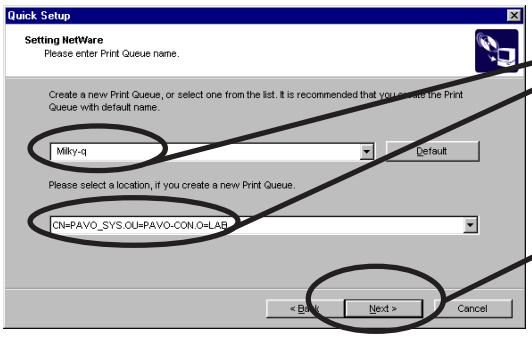
Type the print queue name.

10(B). Select the print server. **<NDS non-support>**



Select the print server.

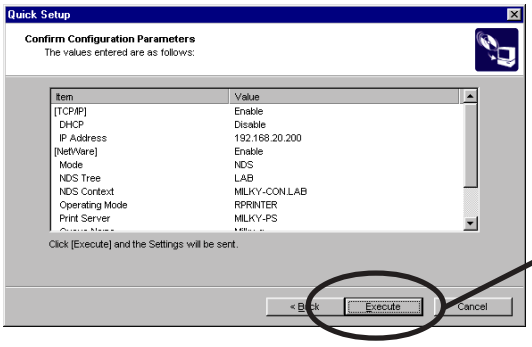
Click ***Next.***



Type the print queue name.

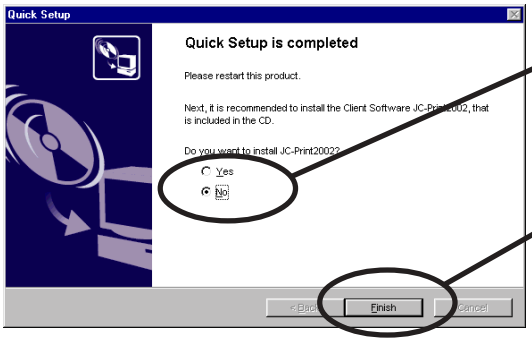
Click ***Next.***

11. Verify the configuration parameters.



Click ***Execute.***

12. Configuration is complete.



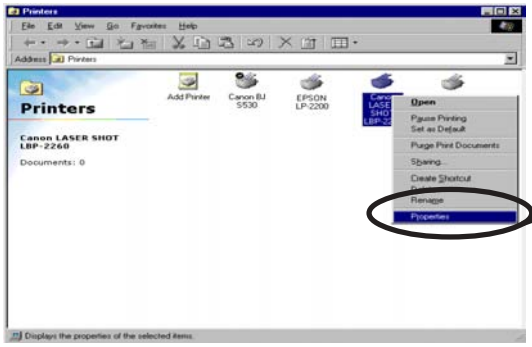
Select ***No.***

Click ***Finish.***

Configuring Printer Port

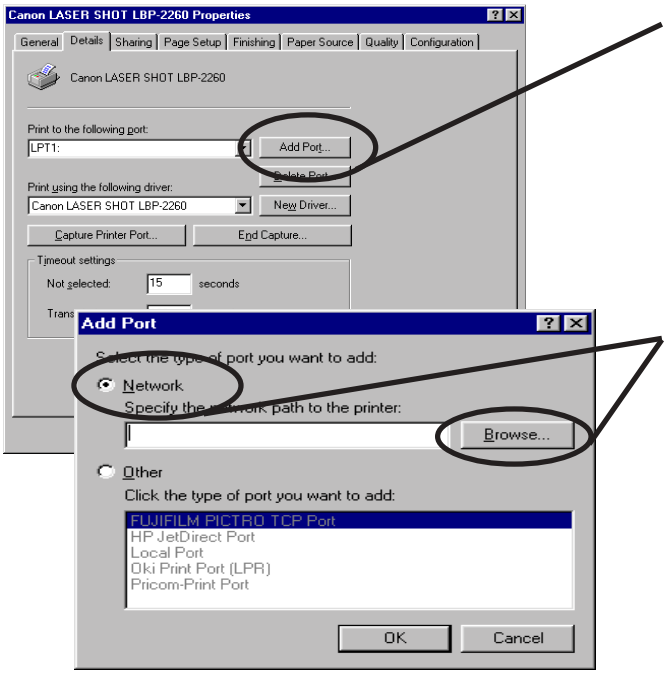
This section explains how to configure printer port to printer in Windows 95/98/Me.
For configuring printer port in Windows NT 4.0, Windows 2000 or Windows XP, refer to the below description.

1. Click ***Start***, then ***Settings***, then ***Printer***. Open the ***Properties*** of printer you use.



Select ***Properties*** of the printer to be used.

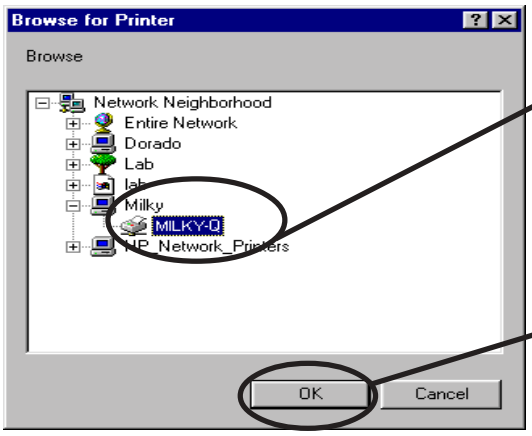
2. Move to ***Details.***



Select ***Add Port***.

Select ***Network*** and Click ***Browse.***

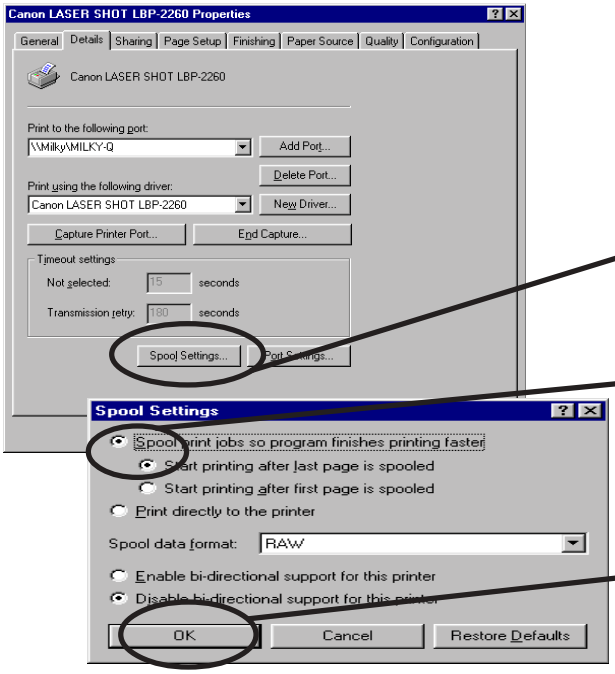
3. Assign a print queue to the printer port.



Select the print queue to use.

Click ***OK.***

4. Configure spool settings.



Select ***Spool Settings.***

Select ***Start printing after the last page is spooled.***

Click ***OK.***

5. Configuration is complete. Click OK and close Properties.
Now, the printer can be used in NetWare environment.
Execute test print and confirm if it's printed properly.

Printing Mode

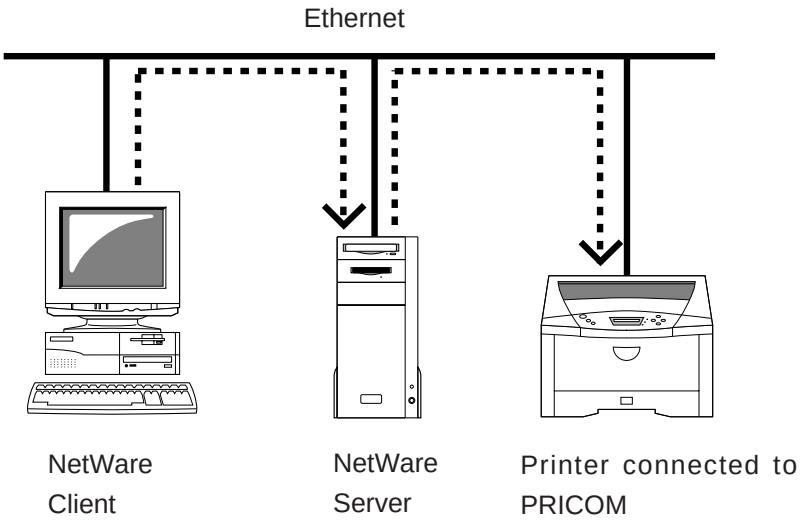
This section explains about print server mode and remote printer mode.

Print Server Mode

When PRICOM is used in print server mode, no other print server (PC on NetWare server or a PC exclusively used for print server) is required. PRICOM operates in the following way when in the print server mode.

1. A print job is spooled from the client to the NetWare server.
2. PRICOM derives a job directly from the NetWare server.
3. Printing starts.

<Job flow>



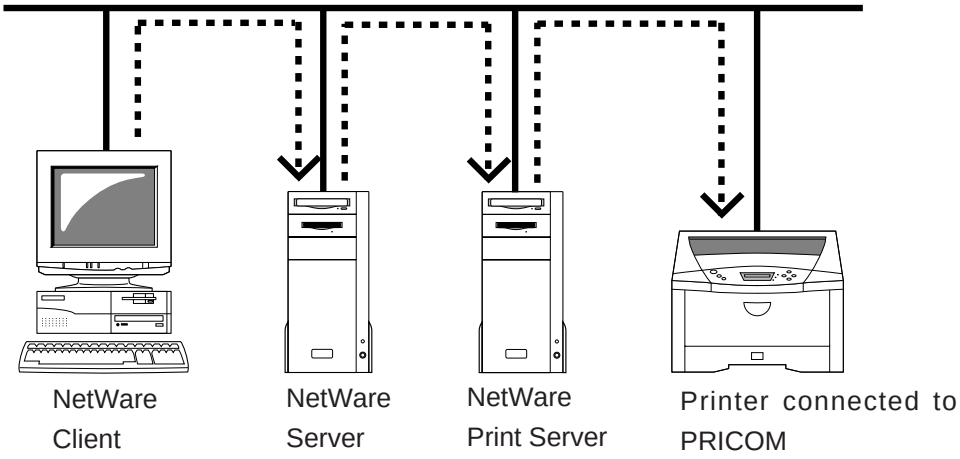
Remote Printer Mode

When using PRICOM in remote printer mode, other print servers (PC on NetWare server or a PC exclusively used for print server) are required. This mode makes use of NetWare normal printing feature (PSERVER.EXE/PSERVER.NLM). Printing in remote printer mode proceeds as follows.

1. Spool the print job from the client to NetWare server.
2. The Print server (PC on NetWare server or a PC exclusively used for print) derives the job from the Netware server.
3. The Print server transfers the job to the printer assigned to the print queue.
4. Printing starts.

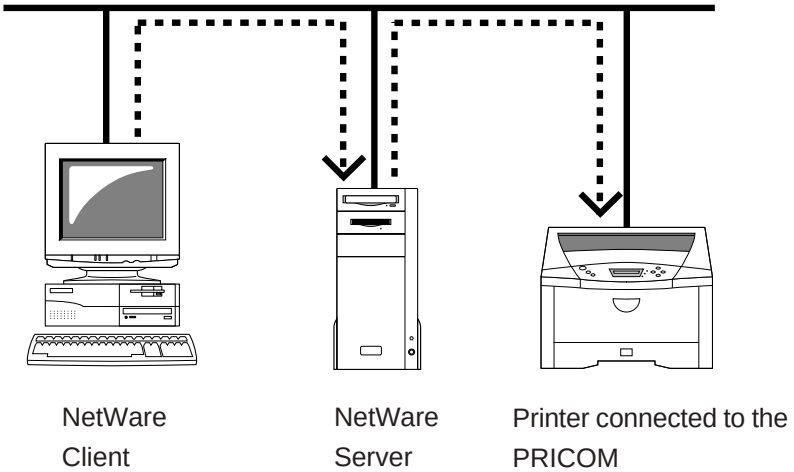
<When PSERVER.EXE>

One PC functions as a print server.



<When PSERVER.NLM>

NetWare server functions as a print server



7. Using PRICOM in Macintosh

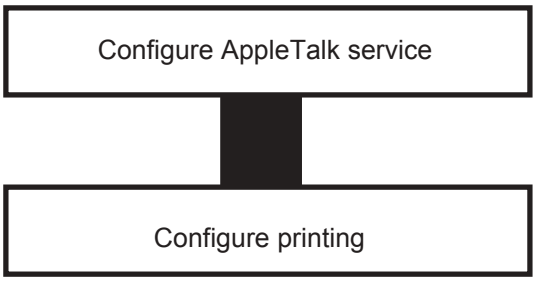
This chapter explains how to configure PRICOM to print from Macintosh and how to configure in details or modify the configuration using AdminManager (Macintosh).

TIP

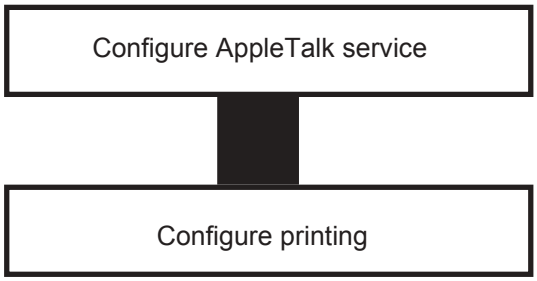
-PRICOM is designed to work with Macintosh/Power Macintosh operating on MacOS 7.6 or above. AppleTalk Phase1 is not supported. As to Mac OS X, v10.1 or above is supported.

<Procedure to print in Macintosh environment>

In case of initial installation and printing (Administrator)



In case of printing (Client)



Printer Configuration and Printing

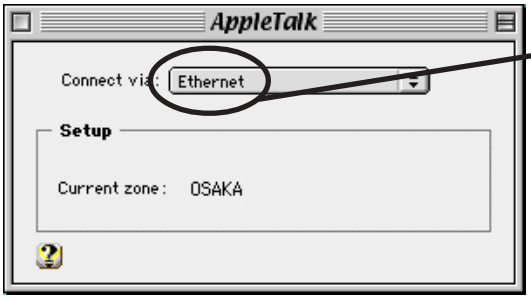
This section explains how to configure PRICOM to print using AppleTalk.

TIP -Configuration method may vary depending on Macintosh in use. For further information, refer to your Macintosh manual.

Mac OS 7/8/9

Configure AppleTalk Service

1. Click ***Apple menu***, then ***Control Panel***, then ***AppleTalk.***



Select ***Ethernet.***

2.

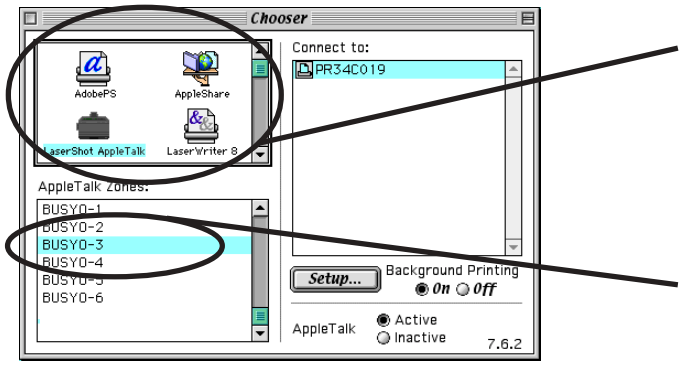
Once AppleTalk directory has been selected and close the dialog, configuration confirmation

Click ***Save.***

Printing

1. Select Apple menu, then Chooser.

2. Select the driver for the printer connected to PRICOM. If zone is found, select the zone to which PRICOM belongs. PRICOM name will appear.



Select ***printer driver.***

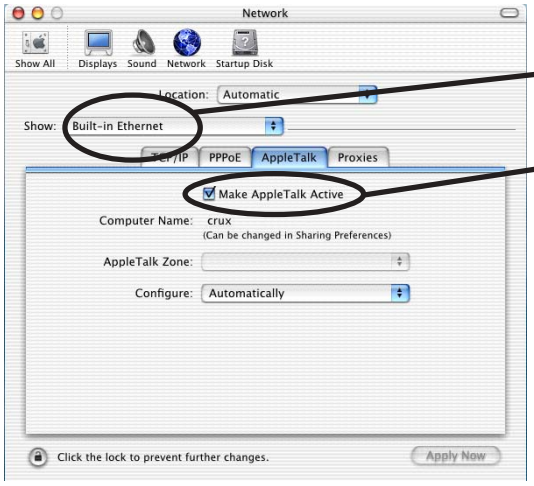
Select ***zone name***

3. Now, PRICOM can print on the network from Macintosh environment. Make sure that printing can be executed properly using application such as SimpleText.

Mac OS X

Configure AppleTalk Service

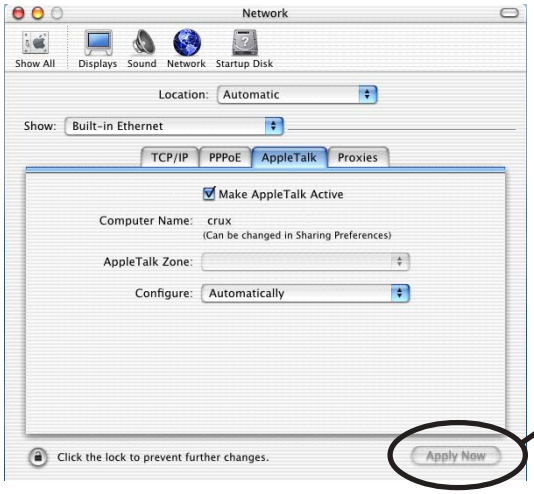
1. Click ***Apple menu***, then ***System Preferences***, then ***Network***.



Select the netwok port to be used.

Check in ***Make AppleTalk Active***.

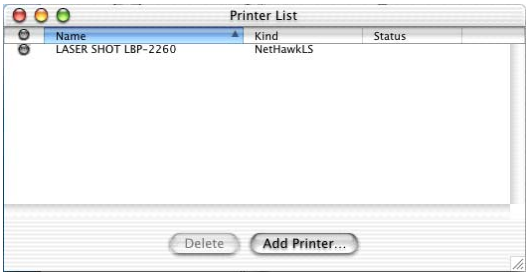
2. AppleTalk Service configuration is complete.



Click ***Apply Now***.

Printing

1. Click ***Go,*** then ***Applications***, then ***Print Center,*** then ***Printer List*** ater selecting Finder to select the printer connected to PRICOM.



NOTE -If the printers connected to PRICOM are not displayed, click Add printer and add printer as following the steps.

2. Now, PRICOM can print on the network from Macintosh environment. Make sure that printing can be executed properly using application such as SimpleText.

AdminManager (Macintosh)

When setting PRICOM in Macintosh environment, use AdminManager (Macintosh).

TIP

-If OpenTransport 1.1.2 or later version is not installed on the Macintosh PC, AdminManager (Macintosh) cannot run. Download the OpenTransport 1.1.2 or higher version from Apple Web site and install it on your PC.
-AdminManager (Macintosh) bundled with PRICOM uses TCP/IP protocol. TCP/IP and MacTCP must be configured.

TCP/IP (MacTCP) Configuration

This section explains how to configure TCP/IP (MacTCP) to your PC.

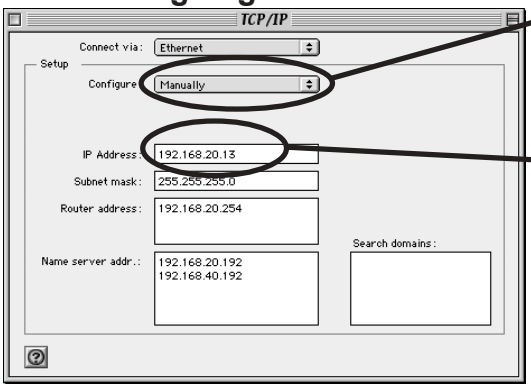
TIP

-The below description is for Mac OS 7/8/9. If you use Mac OS X, the displayed screen may vary.

1. Click ***Apple menu***, then ***Control Panel***, then ***TCP/IP (MacTCP)***.

2. Assign an IP address.

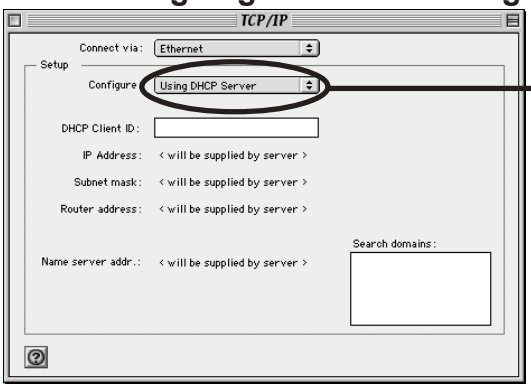
When assigning IP address manually.



Select ***Manually.***

Enter the IP address.

When assigning IP address using DHCP/BOOTP/RARP server.



Select either ***Using DHCP Server***, ***Using BOOTP Server*** or ***Using RARP Server***.

NOTE

-For detail configuration of DHCP BOOTP/RARP server contact network administrator.

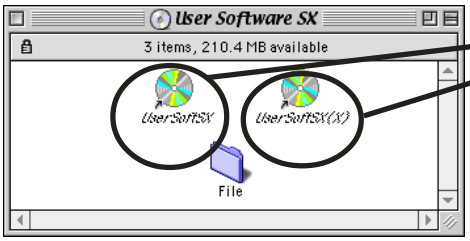
3. Configuration of TCP/IP (MacTCO) is complete.

Installing AdminManager

This section explains how to install AdminManager to your Macintosh.

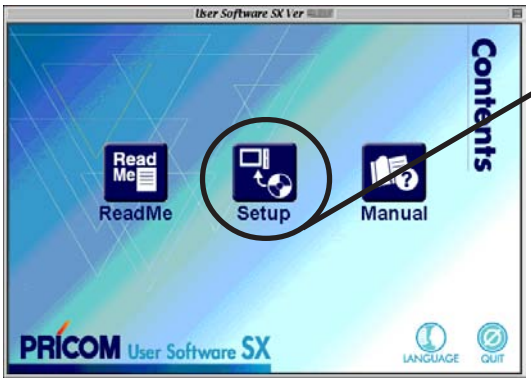
1. Insert the User Software SX in the CD-ROM drive of your Macintosh PC. The main menu screen will be displayed.

2. Select UserSoftSX.



Double-click either of the icons corresponding to your OS version.
UserSoftSX (X): Mac OS X
UserSoftSX : Mac OS 7/8/9

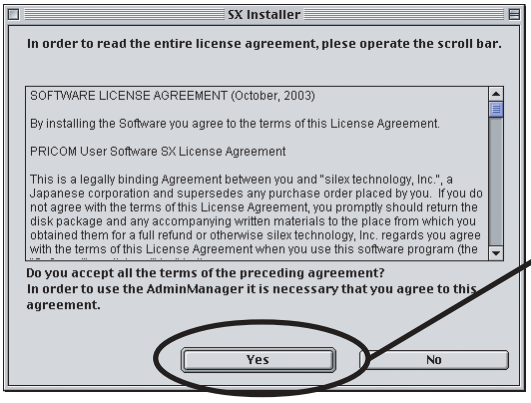
3. The below screen will be displayed.



Click ***Setup.***

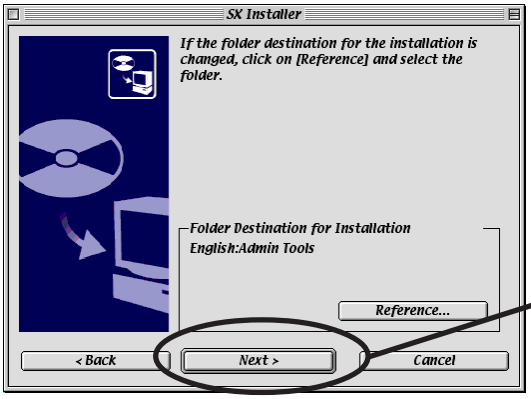
TIP -If you select the language you want to use in the ***Language*** of Mac OS X, memu screen will be displayed.

4. Confirm the Software License Agreement.



Read the agreement and click ***Yes*** if you accept it.

5. Select the folder destination for installation.



Click ***Next.***

NOTE

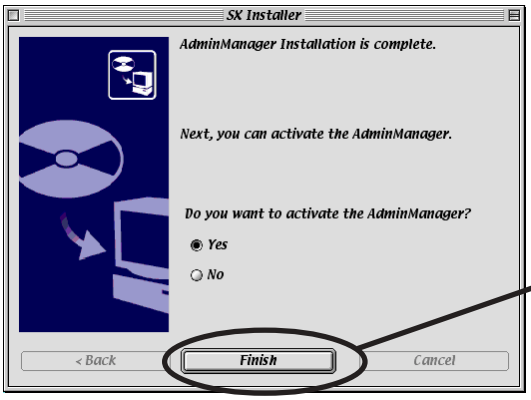
-If you want to change the folder destination, click ***Reference***, then specify the folder destination for installation.

TIP

-You can install AdminManager only to the authorized folder in Mac OS X.

6. Installation is complete.

You can activate AdminManager following the installation.

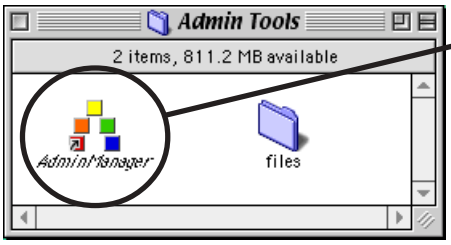


Click ***Finish.***

Assigning the IP Address to PRICOM

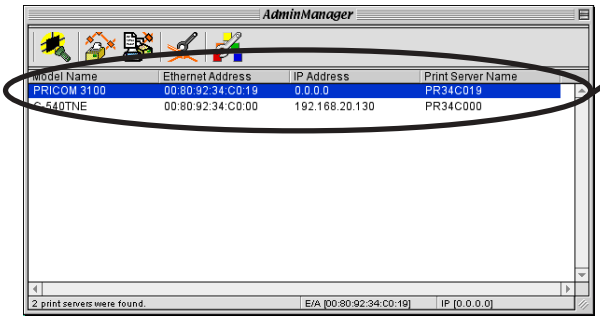
You need to assign the IP address to PRICOM if you want to configure PRICOM using AdminManager.

1. Open the folder containing the AdminManager and then double-click the AdminManager.



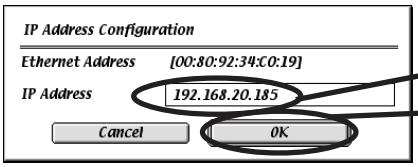
Double click ***AdminManager***

2. When AdminManager starts, products in the network are automatically searched and the list will be displayed.



Select PRICOM to be configured and double-click it.

3. Assign the IP address.



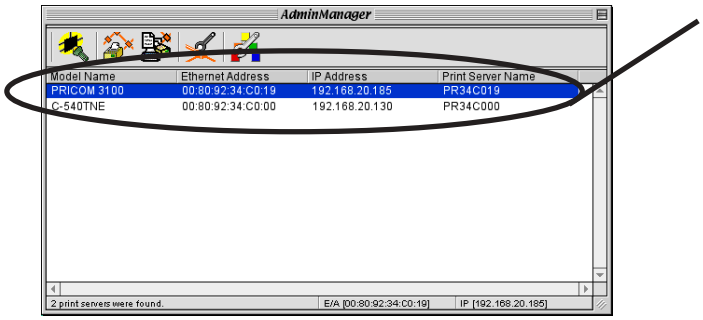
Type the IP address.

Click ***OK.***

4. Restart PRICOM.

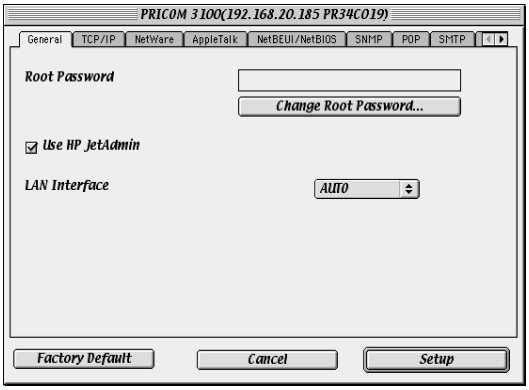
5. Click ***File***, then ***Search*** and research PRICOM.

6. Select PRICOM from the list.



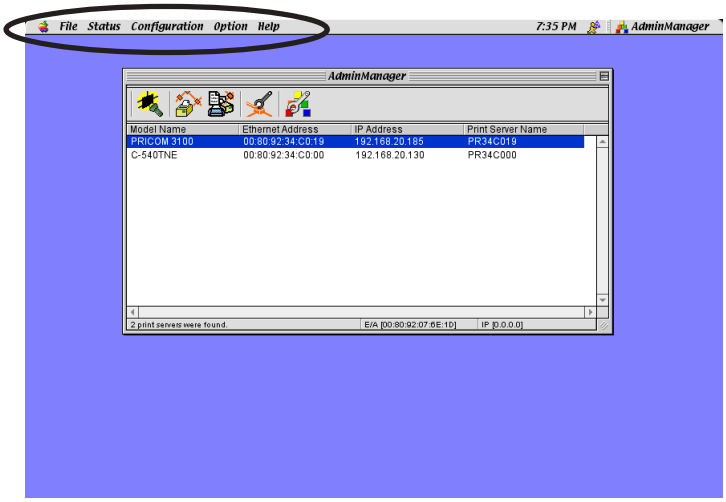
Select PRICOM to be configured and double click it.

7. AdminManager configuration screen will appear.



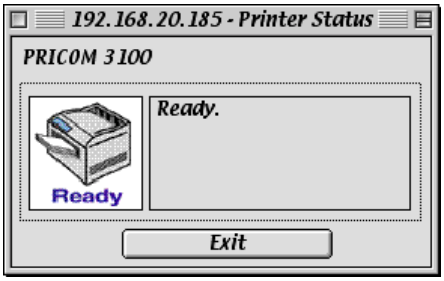
Structure of Menu Bar

<Menu screen>

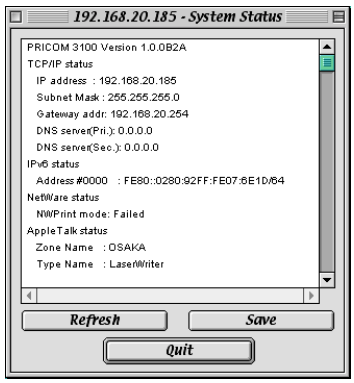


	Item	Description
Apple Menu	About	Displays AdminManager version
File	Search	Searches PRICOM in the network
	Exit	Quit the AdminManager
Status	Printer Status	Displays printer status monitor
	System Status	Displays system status monitor
Configuration	Print Server Configuration	Configure various option of PRICOM
	Restart	Reboots PRICOM
	Diagnostic Status Page	Performs self-diagnostic print of PRICOM
	Set IP address	Manual configuration of IP address
Option	Search using TCP/IP Protocol	Search PRICOM using TCP/IP
	Search using AppleTalk Protocol	Search PRICOM using AppleTalk
	Environment Setting	Configure AdminManager environment
Help	About Balloon Help	Displays information about using the items in the Help menu.
	Show balloons	Displays description of balloon help (Mac OS 7/8/9 only)

<Printer status>

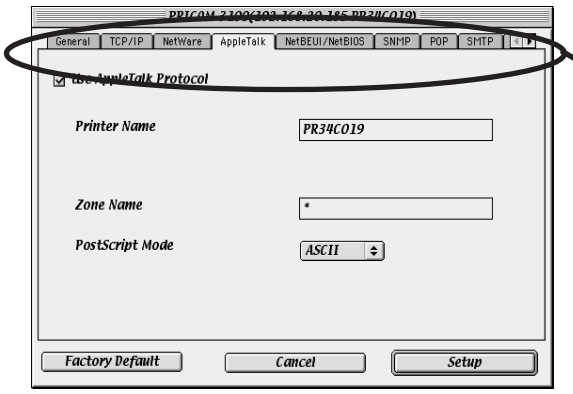


<System status>



Menu

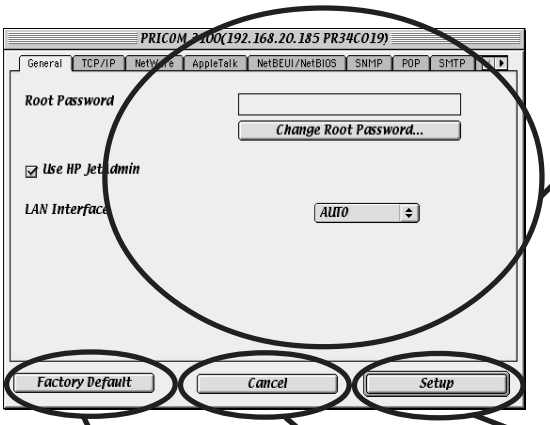
This section explains about menu.



Select the item to be configured.

NOTE

-Use the scroll bar in case the item to be configured does not appear.



Detail configuration for each configured items will be displayed. Configure corresponding to your need.

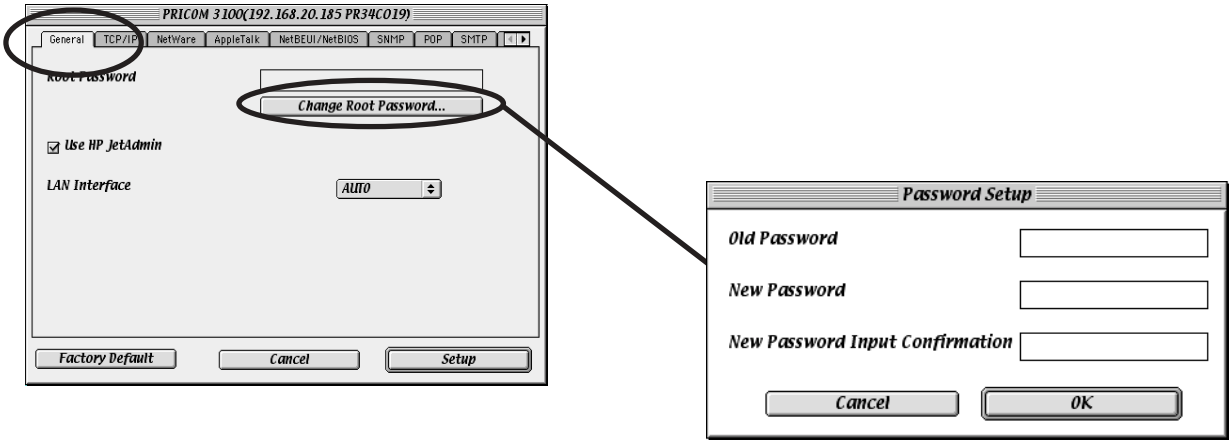
Factory Default
Reset PRICOM to factory default.

Cancel
Quit the process without saving the configuration.

Setup
Quit the process after saving the configuration.

General Configuration

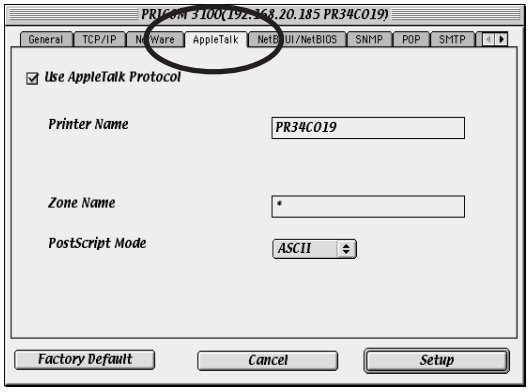
If you click ***General*** *on PRICOM configuration screen,* the below screens will be displayed.



Tab	Item	Description	Factory Default
General	Root Password	Please enter the password.(in ASCII TEXT) This password will be used for configuration changes via Telnet, Web page and Setup Tools.	-
	Change Root Password	The input screen for root password opens.	-
	Use HP JetAdmin	Please select whether you want to use HEWLETT PACKARD's JetAdmin/WebJetAdmin.	DISABLE
	LAN Interface	Please select the network speed. It is recommended to select "AUTO". If you select "AUTO", the network speed will be detected automatically. If the HUB did not link when you switched on your print server (you can check the HUB's LINK LED), please try a different network speed manually.	AUTO

AppleTalk Configuration

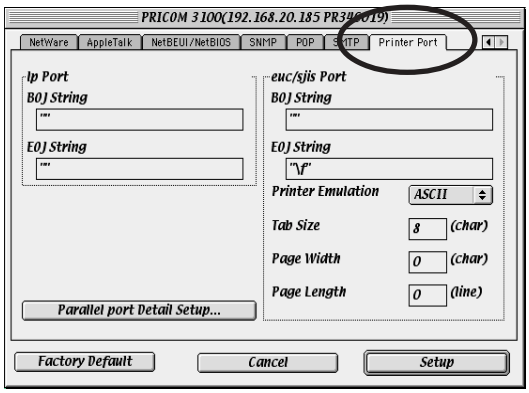
If you click ***AppleTalk*** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item	Description	Factory Default
AppleTalk	Use AppleTalk Protocol	Enable/ Disable AppleTalk Protocol operations.	ENABLE
	Printer Name	Set the AppleTalk printer name. The name set here can be seen in the Chooser. The special symbols in AppleTalk protocol ("="; ":"; "@" and "*") must be excluded from the string.	PRxxxxxx (The last 6 digits of Ethernet address)
	PostScript Mode	When the PostScript printer supports binary mode, PostScript data can be sent in binary. Select BCP or TBCP in accordance with the mode of your printer. Use TBCP when PS binary data is printed by a particular printer. Select ASCII (default) when a printer other than a PostScript one is connected.	ASCII
	Zone Name	The print server sets the zone name where it belongs. If the value is blank, this product will belong to the default zone, set in the AppleTalk Router within the network.	*

Printer Port Configuration

If you click ***Printer Port*** *on* PRICOM configuration screen, the below screen will be displayed.



Tab	Item		Description	Factory Default
Printer Port	lp Port	BOJ String	Specify the string to be transmitted to the printer before output to the direct output port (lp port). Specify the string when a control code, etc. needs to be sent before printing.	-
		EOJ String	Specify the string to be transmitted to the printer after output to the direct output port (lp port). Specify the string when a control code, etc. needs to be sent after printing.	-
	euc/sjis Port	BOJ String	Specify the string to be transmitted to the printer before output to the port via a Kanji filter (sjis/euc). Specify the string when a control code, etc. needs to be sent before printing. (Kanji - double sized character for Japanese)	-
		EOJ String	Specify the string to be transmitted to the printer after output to the port via a Kanji filter (sjis/euc). Specify the string when a control code, etc. needs to be sent after printing. (Kanji - double sized character for Japanese)	\f
		Printer Emulation	Configure to correspond with the PDL(Printer Description Language). The printing data will be converted to a code that corresponds to the printer emulation in outputting to the output port via Kanji filter (sjis/euc). (Kanji - double sized character for Japanese)	ASCII
		Tab Size	Specify the number of characters to convert the tab code (0x09) to half size (single-byte) space (0x20) in outputting via a Kanji filter. When the value is 0, the tab is not converted. The value is from 0 to 16. (Kanji - double sized character for Japanese)	8

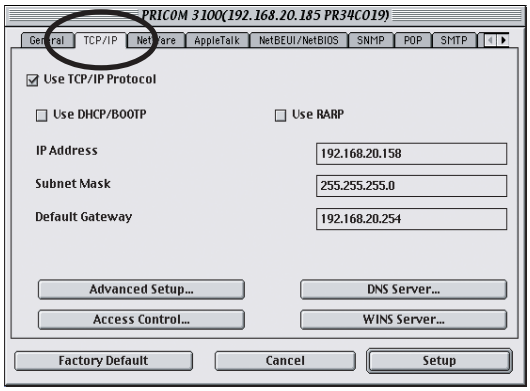
Tab	Item		Description	Factory Default
Printer Port	euc/sjis Port	Page Width	Specify the number of characters in a line when outputting via Kanji filter. The value is from 0 to 255. (Kanji - double sized character for Japanese)	0
		Page Length	Specify the number of lines on a page when outputting via Kanji filter. The value is from 0 to 255. (Kanji - double sized character for Japanese)	0
	parallel port Detail Setup	Bi-directional Mode	Specify the operation mode of the parallel port. You can obtain printer status from a printer that supports bi-directional transmission by setting the bi-directional mode.	NONE
		Parallel Port I/F Timing	Specify the transfer speed of data for the parallel port. Specify the appropriate mode because processing depends on the capacity of the printer connected.	Standard

Configuring Other Protocols

You can configure other protocols using AdminManager.
When using PRICOM only in Macintosh environment, the following configuration is not required.

TCP/IP Configuration

If you click ***TCP/IP*** on PRICOM configuration screen, the below screen will be displayed.



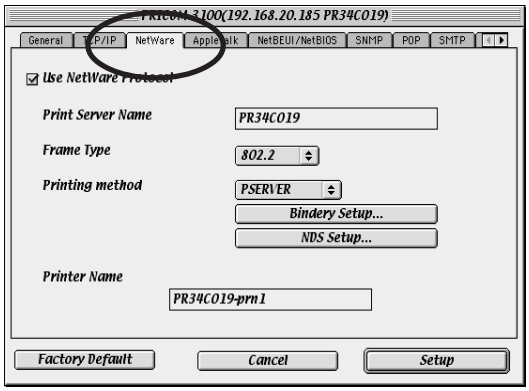
Tab	Item	Description	Factory Default
TCP/IP	Use TCP/IP Protocol	Enable/Disable TCP/IP protocol operations. This has influence on the configuration of Setup Tools, LPR, FTP, TELNET, SNMP, HTTP and other protocols over TCP/IP.	ENABLE
	Use DHCP/BOOTP	Enable/Disable DHCP/BOOTP protocol operations. DHCP/BOOTP is a protocol, via which IP address gets assigned by the BOOTP server or DHCP server. If you use DHCP/BOOTP server, the DHCP/BOOTP server must be in the same segment as the print server. This print server detects DHCP and BOOTP automatically. If more than 1 address get returned, the IP address which is returned first will be used.	ENABLE
	Use RARP	Enable/Disable RARP protocol operations. RARP is a protocol, via which IP address gets assigned by the RARP server. If you use RARP server, the RARP server must be in the same segment as the print server.	ENABLE
	IP Address	Setting the Print Server IP address. The IP address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0

Tab	Item		Description	Factory Default
TCP/IP	Subnet Mask		Setting the print server subnet mask. The subnet mask must be 4 numbers, each between 0-255 (eg. 255.255.255.0). However, entering 0.0.0.0 would not be valid, and the subnet mask corresponding to the IP address would be used automatically.	0.0.0.0
	Default Gateway		Setting the default gateway address. The default gateway address must be 4 numbers, each between 0-255 (eg. 192.168.100.240). If you use a gateway, the gateway must be in the same segment as the print server. However, entering 0.0.0.0 would not be valid.	0.0.0.0
	Use FTP/LPD Banner		You can select to use a banner page when printing with LPR and FTP. (A banner page is print cover page with print job explanations.)	DISABLE
	DNS Server	Primary Server	Setting the DNS server (primary) address. When POP/SMTP server name is configured directly at IP address, the DNS server's setting is not necessary. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Secondary Server	Setting the DNS server (secondary) address. When POP/SMTP server name is configured directly at IP address, the DNS server's setting is not necessary. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
	WINS Server	Primary Server	Setting the WINS server (primary) address. WINS server will resolve the IP address from the host name. Therefore you can use a hostname instead of the IP address when printing. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Secondary Server	Setting the WINS server (secondary) address. WINS server will resolve the IP address from the host name. Therefore you can use a hostname instead of the IP address when printing. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Scope ID	The scope ID defines the computer group that recognized the registered host name.	-

Tab	Item		Description	Factory Default
TCP/IP	Advanced Setup	Use IPv6 Function	Enable IPv6 if you use IPv6.	DISABLE
		Use NetworkPnP	Enable NetworkPnP if you use NetworkPnP.	ENABLE
		Use Rendezvous	Enable Rendezvous if you use Rendezvous.	ENABLE
		Rendezvous Name	Specify a Rendezvous name.	"RDVxxxxxx" (xxxxxx is the last 6 figures of the Ethernet address)
		Use ThinPrint	Enable/Disable ThinPrint operations. (Only TCP/IP model)	ENABLE
		ThinPrint Port Number	Configure the port number to use ThinPrint. (Only TCP/IP model)	4000
	Access Control	Set IP filter	Setting of IP filter operations. Available options are "ALLOW" and "DENY". If you select "ALLOW", only the data from the set IP address range are accepted. If you select "DENY", the data from the set IP address range can not be received.	DENY
		IP Address range	Setting IP filter range. IP addresses to be filtered can be set to maximum 4 address ranges. If address range setting is not required, please enter the address range from "0.0.0.0" to "0.0.0.0".	0.0.0.0

Netware Configuration

If you click ***Netware*** on PRICOM configuration screen, the below screen will be displayed.

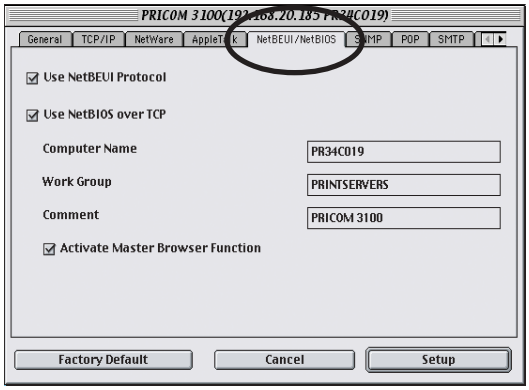


Tab	Item				Description	Factory Default
NetWare	Use NetWare Protocol				Enable/Disable NetWare protocol.	ENABLE
	Print Server Name				Specify the print server name for the print server when starting in PSERVER mode. Because this configuration is used as the identifier on the network in the NetWare protocol, the print server name set must be different from other names in the NetWare environment. It is used as a login name in connecting to the NetWare server.	PRxxxxxx (The last 6 digits of Ethernet address)
	Frame Type				Select the default frame type of the print server. If the set frame type does not work, it will be changed to a different frame type automatically.	802.2
	Printing method				Select the primary operation mode (PSERVER mode / RPRINTER mode) of the print server. If the set mode does not work, the print server starts in a different mode.	PSERVER
		PSERVER			Send the job via NetWare.	
			Bindery Setup	NetWare File Server to be connected	Set the name of the file server primarily connected to. The print server logs into the file server set here when operating in PSERVER mode. The print server searches the file server automatically and logs in if the value is blank.	-

Tab	Item		Description			Factory Default
NetWare	Printing method	PSERVER	Bindery Setup	Login Password	Set the password that is authenticated when the print server logs into the file server as a PSERVER mode. When the password is set for the print server, the same password must be set to the corresponding file server. If the print server is connected to two or more file servers, the same password must be set to	-
				Job Polling Interval	Set the interval for the print server to query the file server for jobs in units of seconds. Usually the value should be the	4
			NDS Setup	NDS Tree Name	Specify the name of the NDS tree connected to. Because the tree name is obtained automatically, it is usually unnecessary to specify it here. When there are two or more trees on the same network it is necessary to specify the	-
				NDS Context	Specify the NDS context connected to in PSERVER mode. The context which created the print server on the file server should be specified here.	-
		RPRINTER	Job management can be performed via NetWare server.			
			RPRINTER Setup	NetWare Print Server to be connected	Set the name of the print server primarily connected to. This product connects to the print server set here when operating in RPRINTER mode. This product searches print server automatically and connects if the value is blank.	-
				Job Timeout	Set the timeout value (in units of seconds) for the print server to determine the end of the job when operating in RPRINTER mode. Usually the value should be the	10
	Printer Name		Set the printer name under print server information within the NetWare server. It must be the same as the "Printer Name" registered in the NetWare server.			PRxxxxxx-Prn1 (The last 6 digits are Ethernet address)

NetBEUI/NetBIOS Configuration

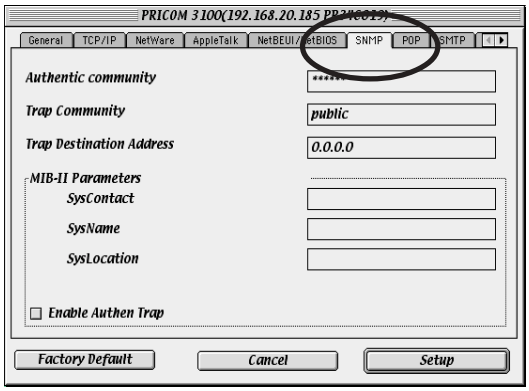
If you click ***NetBEUI/NetBIOS*** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item	Description	Factory Default
NetBEUI/NetBIOS	Use NetBEUI Protocol	Enable/ Disable NetBEUI protocol operations.	ENABLE
	Use NetBIOS over TCP	Enable/ Disable NetBIOS over TCP operations.	ENABLE
	Computer Name	Specify a computer name. The name set here is shown as a computer in Windows Explorer. The name must be different from those of other computers.	PRxxxxxx (The last 6 digits are Ethernet address)
	Work Group	Specify the workgroup that this print server belongs to. Enter the default workgroup name or an existing workgroup name. A new workgroup name that does not exist in the network is not shown as Workgroup.	PRINTSERVERS
	Comment	Set the description of the print server. The information set here is shown as the description (comments) of the print server in Windows Explorer.	PRICOM XXXXX
	Activate Master Browser Function	In NetBEUI or NetBIOS over TCP, you can specify whether to activate the master browser function.	ENABLE

SNMP Configuration

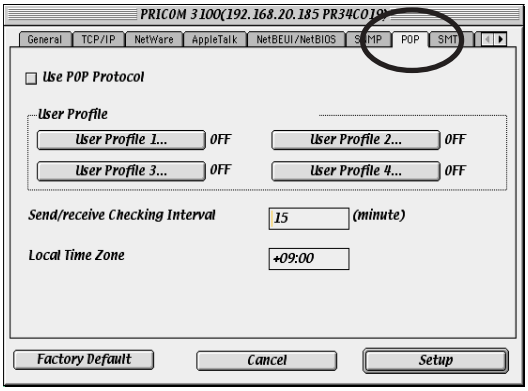
If you click ***SNMP*** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item		Description	Factory Default
SNMP	Authentic community		Specify the authentication community name of SNMP. This community name is authenticated when an SNMP set request is received.	public
	Trap Community		Specify the trap community of SNMP. This community name is used when the print server send a trap.	public
	Trap Destination Address		Specify the destination IP address of the SNMP trap. The value is a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx.xxx". When the value is "0.0.0.0"(default), this item is disabled and a trap will not be generated in any case.	0.0.0.0
	MIB-II Parameters	SysContact	Specify the SysContact of the MIB-II object. The e-mail address of the network administrator is used.	-
		SysName	Specify the SysName of the MIB-II object. The host name or domain name of the print server is used.	-
		SysLocation	Specify the SysLocation of the MIB-II object. The location of the print server is used.	-
		Enable Authen Trap	Select whether to allow or disallow the "EnableAuthenTrap" of the MIB-II object. If a violation of the community occurs "allow" is the setting, the SNMP trap is sent to the IP address specified in "TRAP Address".	DISABLE

Mail Receiving Function (POP) Configuration

If you click ***POP*** on PRICOM configuration screen, the below screen will be displayed.

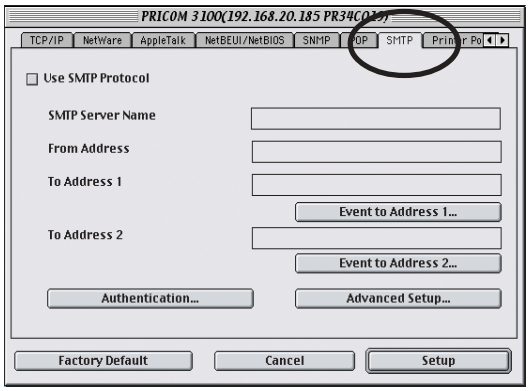


Tab	Item			Description	Factory Default
POP	Use POP Protocol			Enable/Disable POP protocol operations. If operation is disabled, the e-mail RECEIVE function will be not available.	DISABLE
	User Profile (1-4)	Use Ures Setup			ENABLE
			POP Server Name	Setting the hostname or the IP address of the e-mail server. If you use a domain name, you need a DNS server setup.	-
			POP User Name	Setting of Login name (User name) for e-mail account.	-
			POP Password	Enter password for e-mail server connection.	-
			POP Port Number	Setting POP port number. It is recommended to use the default port number (110).	110
	Advanced Setup		Use APOP	Enable/ Disable APOP setting at server. In order to use APOP, it is necessary that the e-mail server supports APOP.	DISABLE
			Delete Mail after Retrieval	The excluded E-mail is not deleted even if the item of "Delete Mail after Retrieval" is checked.	DISABLE
			Return a read receipt	The transmitting propriety of a notice that a POP e-mail has been received and is printing is setup. This notice e-mail will transmit based on the SMTP setup.	DISABLE
			Mail Retrieval Limit	E-mails with a size lager than specified are excluded from being processed.If you set "0", the size is not limited.	0
			Filter Setting	With filter configuration, it is possible that only specific e-mails are printed. When null (empty string: default) is set, all e-mail is printed. You can configure filters by means of strings connected by "OR"("|") or "AND"("&") and featuring four kinds of the items: "Subject"("S:string"), "To Address"("T:string"), "Carbon Copy"("C:string") and "From Address"("F:string").	-

Tab	Item	Description	Factory Default
POP	Send/receive Checking Interval	Mail retrieval interval to the mail server is set in minutes.	15
	Local Time Zone	Setting the time zone. For use in Japan, please enter "+09:00".	+9:00

Mail Transmitting Function (SMTP) Configuration

If you click ***SMTP*** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item		Description	Factory Default
SMTP	Use SMTP Protocol		Enable/Disable SMTP protocol operations. If "Disable" is selected, e-mail "send" function is not available.	DISABLE
	SMTP Server Name		Setting SMTP server host name. Entering domain name or IP address as host name. If a domain name is used, it is necessary to configure the DNS server.	-
	From Address		Setting the sender address (From Address). Usually the e-mail address of the network administrator is set.	-
	To Address (1-2)		Setting e-mail destination address (To Address).	-
	Event to Address (1-2)	Offline	E-mail is sent while the printer is off line.	OFF
		Paper Empty	E-mail is sent when the printer is out of paper.	OFF
		Printer Error	E-mail is sent when abnormal conditions are encountered in the printer.	OFF
		Check Interval	In regular intervals the existence of events is checked. This interval is defined in minutes. If more than one event occurs within this interval, a bundled report is sent.	10
	Advanced Setup	SMTP Port Number	Setting the SMTP port number. It is recommended to use the default value (=25).	25
		Signature	Specify the signature string to be added at the end of an e-mail.	---------- PRICOM XXXXX [00:80:92:XX:XX:XX] ---------- (The last 6 digits of Ethernet address)
	Authentication	Use SMTP Authentication	Enable or disable SMTP authentication.	DISABLE
		User Name	Specify a SMTP user name.	-
		Password	Specify a SMTP password.	-

Printing Using Rendezvous

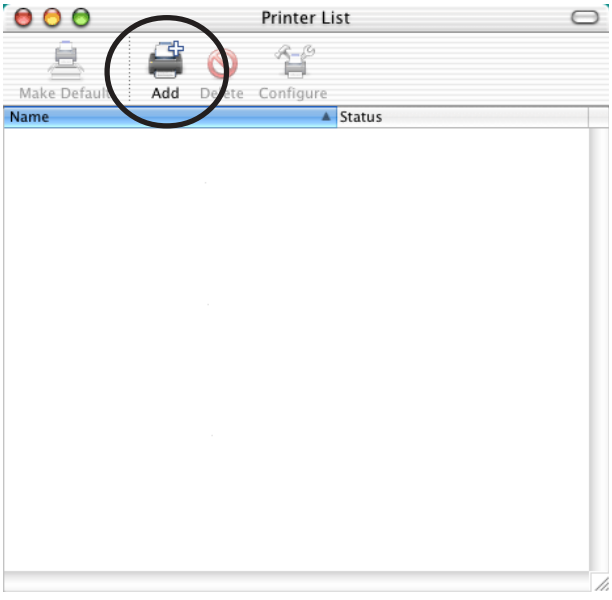
It is possible to print from a Macintosh using Rendezvous. Rendezvous is supported in MacOS X Ver10.2.3 and newer.

TIP

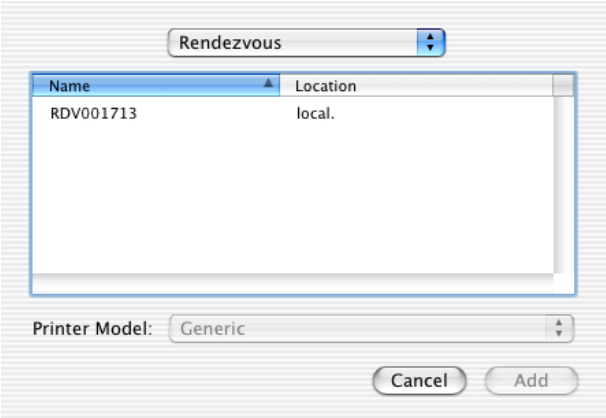
-In order to print from a MAC, the printer must support postscript printing.

1. From **HDD** of the Macintosh, select - **Utility** - and then select **Print Center**.

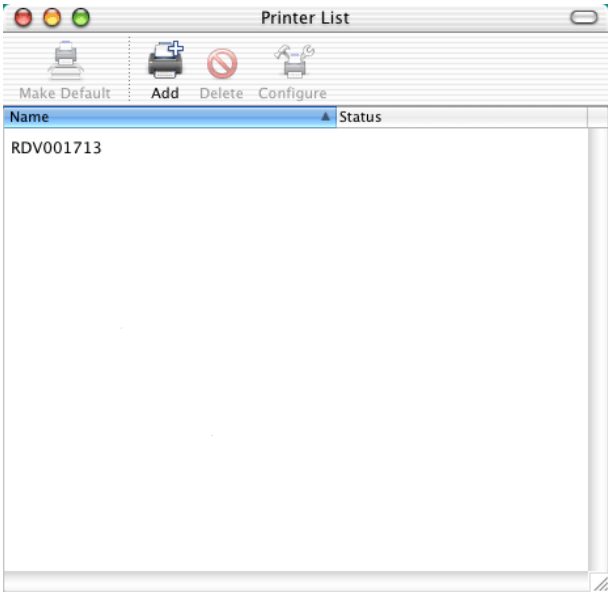
2. Click **Add**.



3. Change the protocol to Rendezvous. After a while, a port list with this product will be displayed.



4. Choose the port with the printer connected to this product to complete the printing setup.



The printing setup is complete. Verify it works correctly by sending a test document (for example from Apple Text).

8. Functions for Configuration

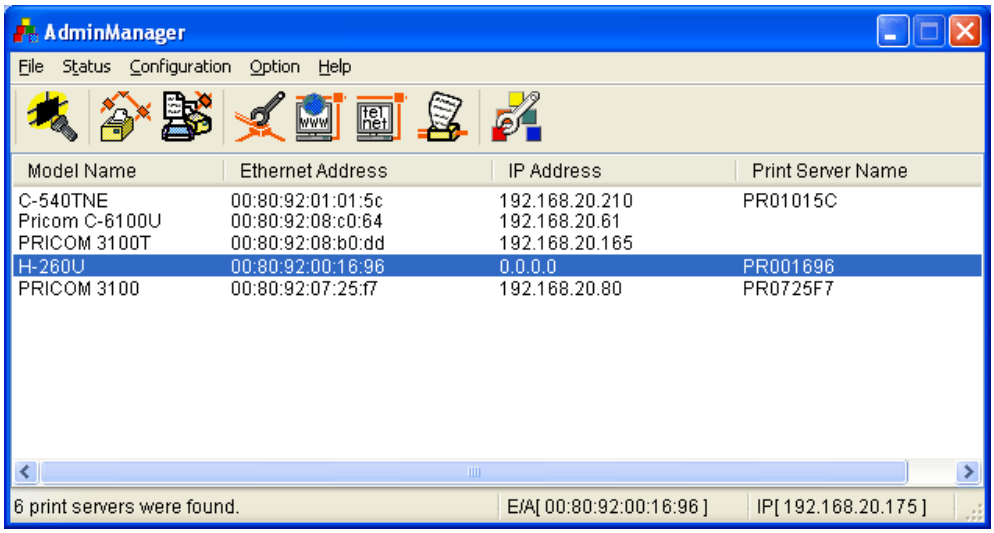
This chapter explains how to configure options in details by using AdminManager, Web browser or TELNET.

Configuration by Using AdminManager

By using AdminManager, you can specify or modify PRICOM detail configuration. AdminManager also has convenient additional features such as, remote rebooting, self-diagnostic printing, printer status monitoring and NetWare queuing wizard.

TIP

-Remote rebooting and remote self-diagnostic printing may not be available on some PRICOM models.
-To use AdminManager, TCP/IP or IPX/SPX protocol must have been installed on your PC. Contents displayed on the AdminManager may vary depending on PRICOM you use.
-When you use TC/IP protocol in Windows XP, click ***Local Area Connection Properties,*** then ***Advanced***, then remove the check from ***Protect my computer and network by limiting or preventing access to this computer from the Internet.***



Starting AdminManager

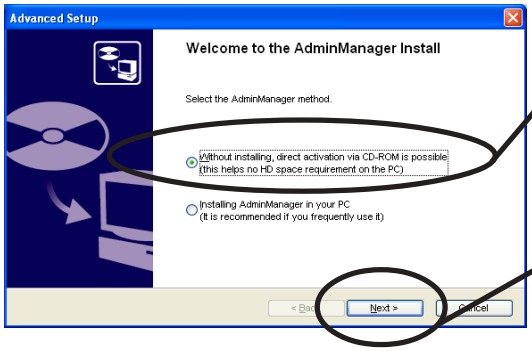
1. Insert the User Software SX in the CD-ROM drive. The main menu screen will be displayed.

Click ***Setup.***

2. The below screen will be displayed.

Click ***Advanced Setup.***

3. Installation confirmation screen will be displayed.



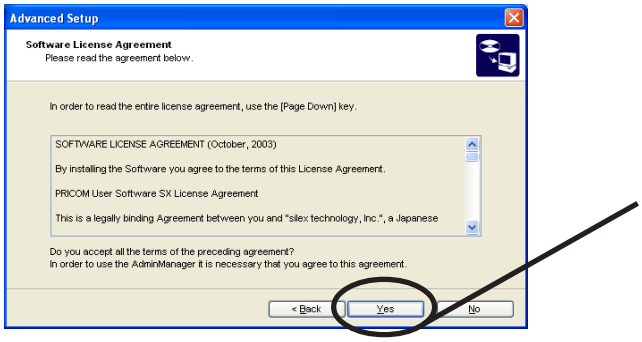
Select ***Without installing, direct activation via CD-ROM is possible.***

Click ***Next.***

NOTE

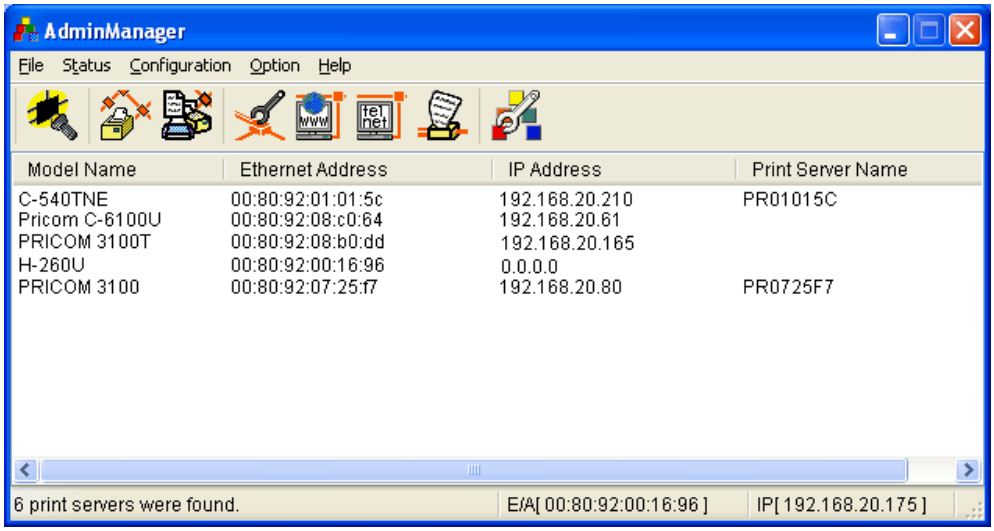
-If you intend to use the AdminManager frequently, select ***Installing AdminManager in your PC***.

4. Confirm the Software License Agreement.



Read the agreement and click ***Yes*** if you accept it.

5. AdminManager will start.



Searching PRICOM Using AdminManager

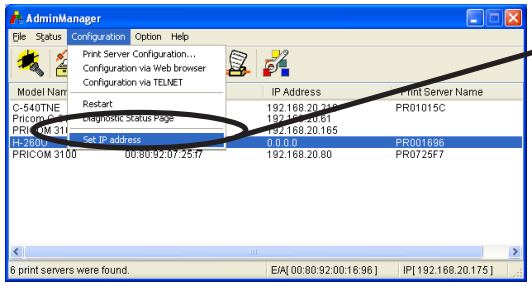
Before setting up PRICOM, verify that it can be discovered by AdminManager. If not, select Settings, then assign an IP address.

Assigning an IP address
Assign an IP address manually.

NOTE

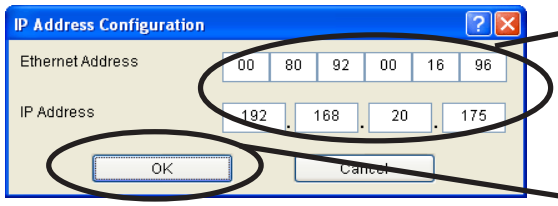
-Before assigning an IP address, verify PRICOM Ethernet address. The address can be found on the self-diagnostic print sheet. (e.g. 00:80:92:34:c0:19)

1.



On the AdminManager menu bar, select ***Settings***, then ***Set IP address*** to start IP address configuration tool.

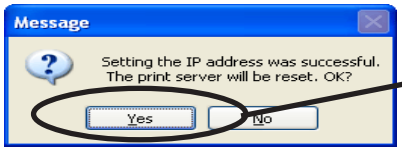
2.



Enter Ethernet address and IP address of PRICOM to be configured.

Click ***OK.***

3.



To validate the IP address, reset PRICOM.

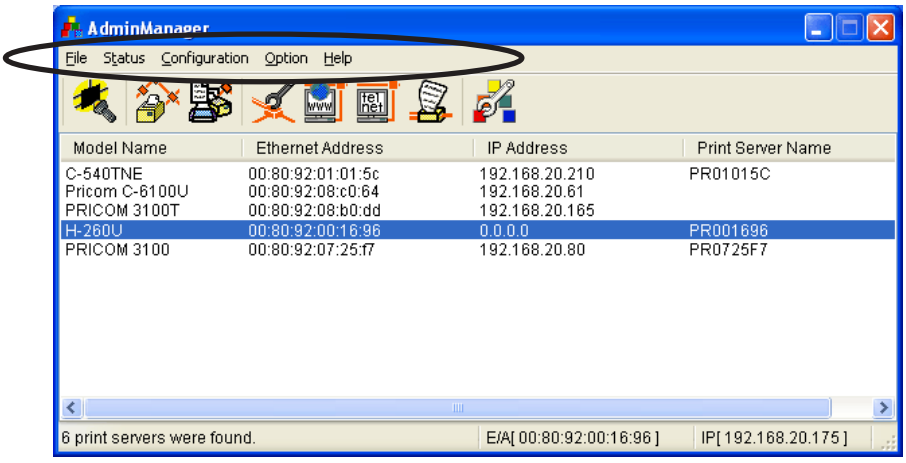
TIP

-Restart process of AdminManager may not work depending on printer type. In that case, switch off and on the printer power.

Functions of AdminManager

AdminManager menu structure

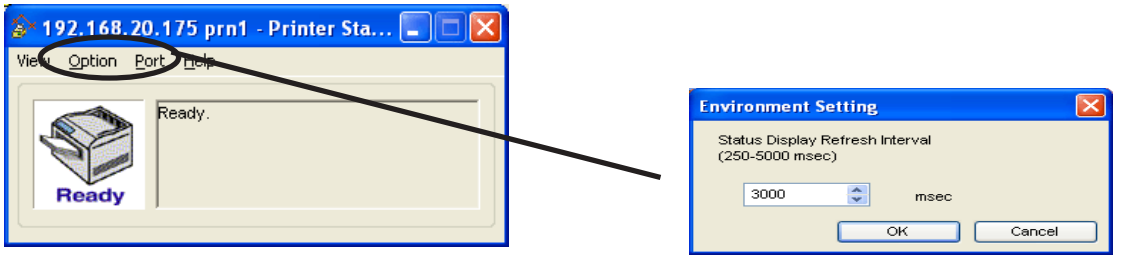
TIP -The menu options displayed on AdminManager may vary depending on the model or operating environment.



Menu	Item	Explanation
File	Search	Search PRICOM in the network
	Exit	Quit the AdminManager
Status	Printer Status	Display the system status monitor
	System Status	Display the printer status monitor
	Configuration summary	Display PRICOM internal configuration information
Configuration	Print Server Configuration	Configure various parameters of PRICOM
	Configuration via Web browser	Start PRICOM Web site
	Configuration via TELNET	Start TELNET
	Restart	Restart PRICOM
	Diagnostic Status Page	Start PRICOM self-diagnostic print
	Set IP address	Manually assign the IP address
Option	Search using TCP/IP Protocol	Search PRICOM using TCP/IP
	Search using IPX/SPX Protocol	Search PRICOM using IPX/SPX
	Environment Setting	Configure AdminManager environment
Help	About	Display AdminManager version

Printer status

You can monitor the status of printer connected to PRICOM by AdminManger. You can also specify the refresh time of printer status on the environment configuration screen.



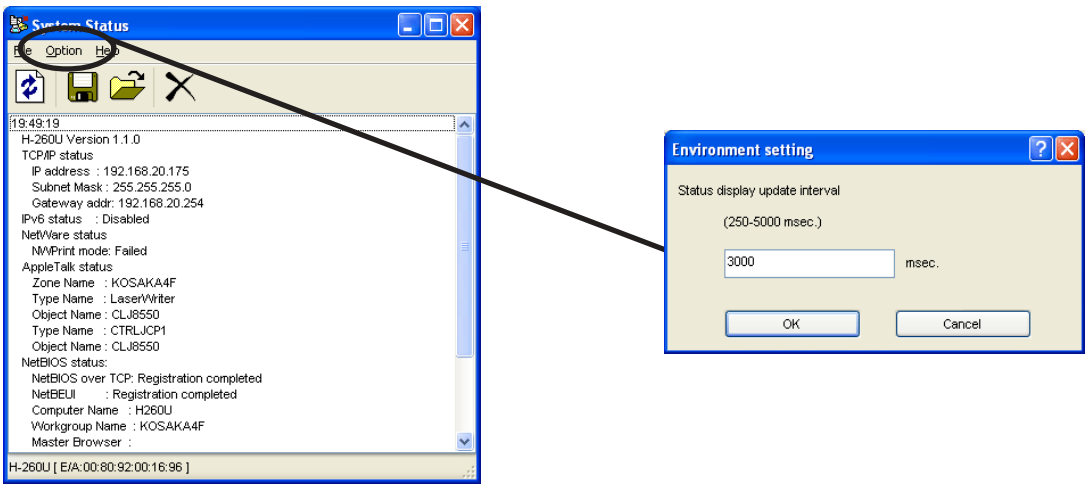
Printer status environment configuration.

TIP

-Printer status may not be obtained properly depending on the printer model.

System status

Operating status of the PRICOM selected on AdminManager screen is displayed. The operating status can be saved onto a file (log registration) and referenced later. You can also specify the refresh time of printer status on the environment configuration screen.

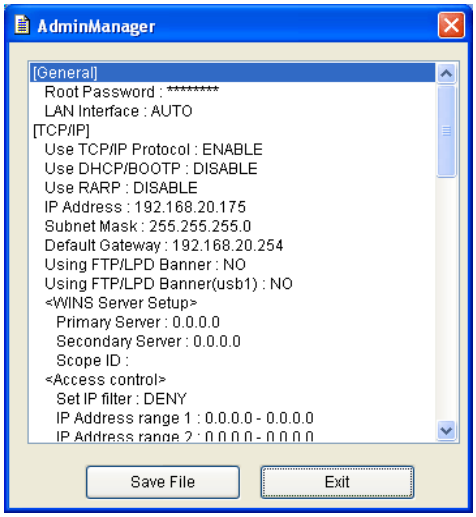


TIP

-The displayed contents may vary depending on the PRICOM you use.

Configuration Parameters List

The list of PRICOM configuration parameters will appear. These configuration can be printed to file and managed.



TIP

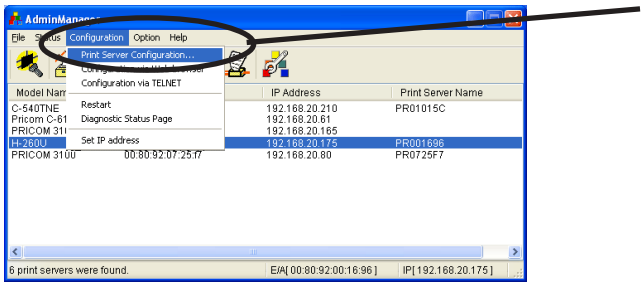
-The displayed contents may vary depending on PRICOM you use.

Configuring PRICOM Using AdminManager

Configuring Print Server

Click ***Settings***, then ***Print Server Configuration*** for PRICOM detail configuration and modification of the configuration.

1.

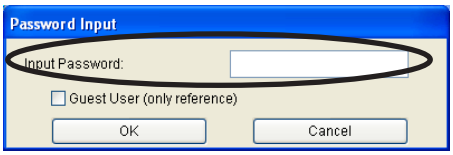


Choose PRICOM to be configured and then click ***Settings***, then ***Print ServerConfiguration*** in the AdminManager menu bar.

NOTE

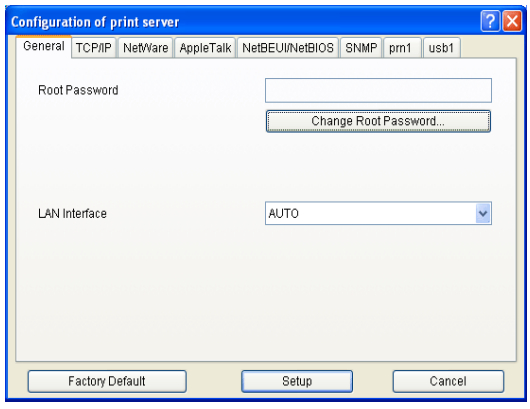
-When PRICOM is protected with the password, password input screen will be displayed.

-By checking ***Guest user***, you can view configuration parameters, but cannot change the information.



Password input screen

2.



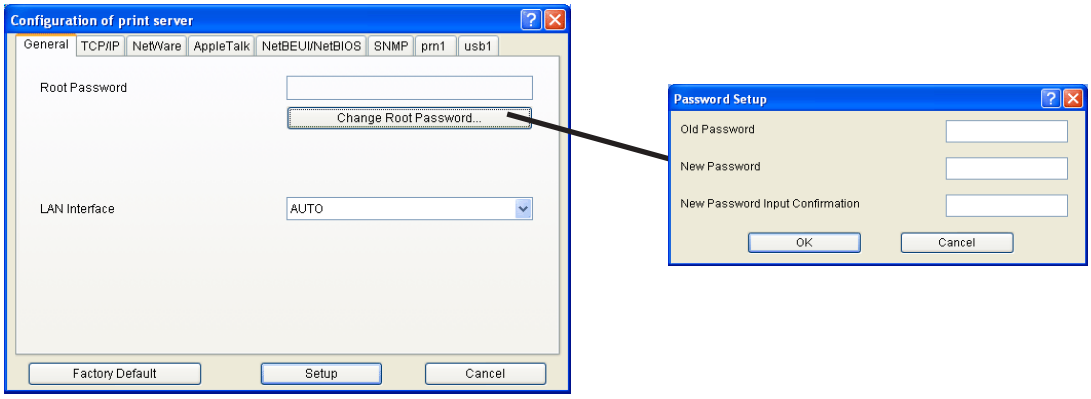
The screen shown left will be displayed. Select the tab you want to configure.

NOTE

-The displayed tab may vary depending on PRICOM you use.

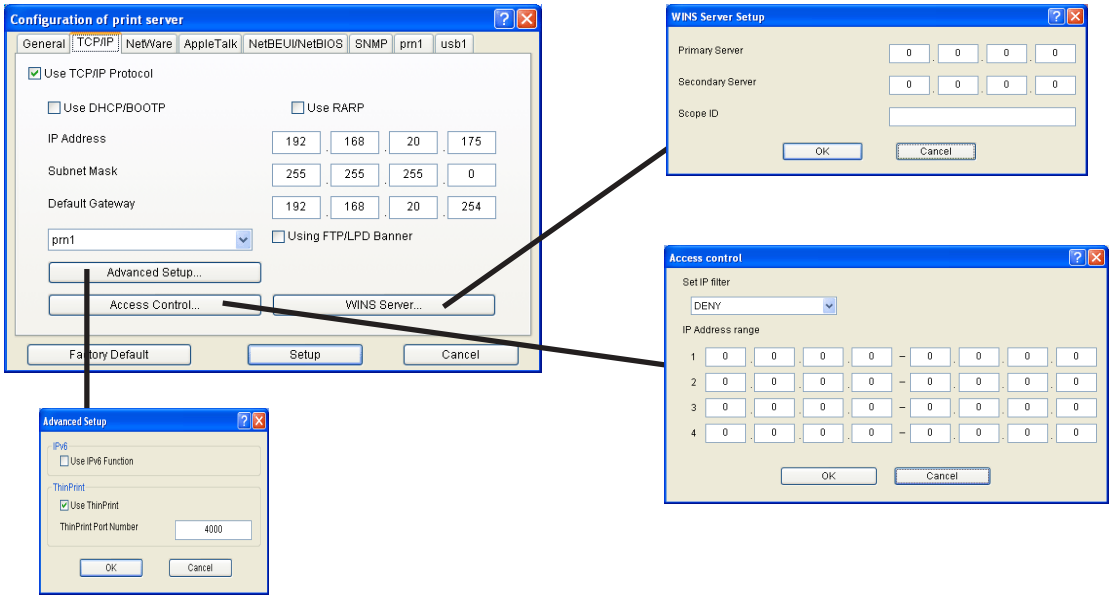
-Use the scroll button to view remaining tabs, if any.

General Configuration



Tab	Item	Explanation	Factory Default
General	Root Password	Please enter the password in ASCII TEXT (up to seven (7) character). This password will be used for configuration changes via AdminManager, Telnet, Web page.	-
	Change Root Password	The input screen for root password opens.	-
	LAN Interface	Please select the network speed. It is recommended to select "AUTO". If you select "AUTO", the network speed will be detected automatically. If the HUB did not link when you switched on your print server (you can check the HUB's LINK LED), please try a different network speed manually.	AUTO

TCP/IP Configuration

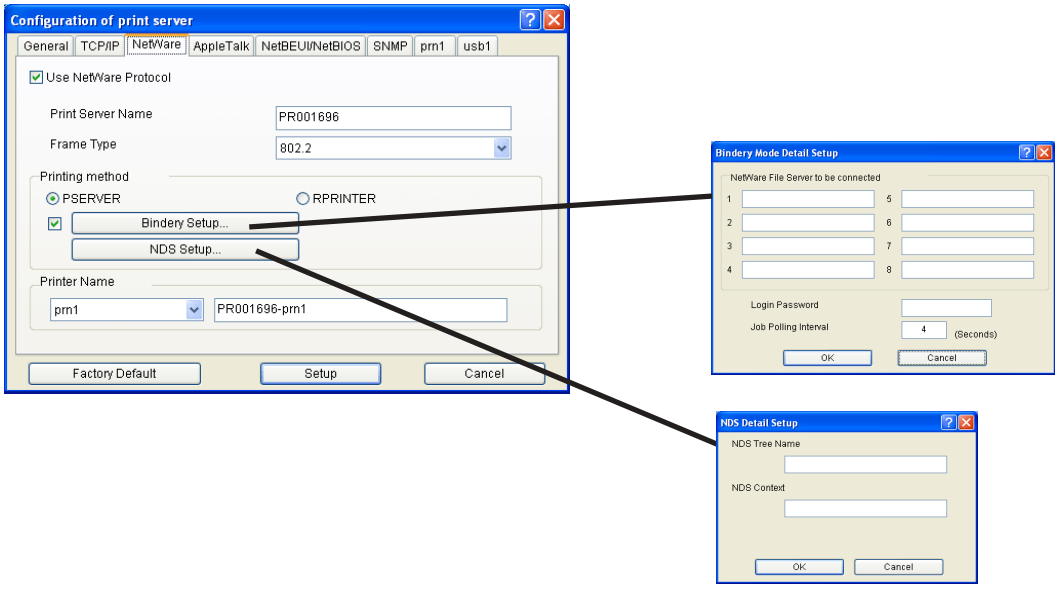


Tab	Item	Explanation	Factory Default
TCP/IP	Use TCP/IP Protocol	Enable/Disable TCP/IP protocol operations. This has influence on the configuration of Setup Tools, LPR, FTP, TELNET, SNMP, HTTP and other protocols over TCP/IP.	ENABLE
	Use DHCP/BOOTP	Enable/Disable DHCP/BOOTP protocol operations. DHCP/BOOTP is a protocol, via which IP address gets assigned by the BOOTP server or DHCP server. If you use DHCP/BOOTP server, the DHCP/BOOTP server must be in the same segment as the print server. This print server detects DHCP and BOOTP automatically. If more than 1 address get returned, the IP address which is returned first will be used.	ENABLE
	Use RARP	Enable/Disable RARP protocol operations. RARP is a protocol, via which IP address gets assigned by the RARP server. If you use RARP server, the RARP server must be in the same segment as the print server.	ENABLE
	IP Address	Setting the Print Server IP address. The IP address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
	Subnet Mask	Setting the print server subnet mask. The subnet mask must be 4 numbers, each between 0-255 (eg. 255.255.255.0). However, entering 0.0.0.0 would not be valid, and the subnet mask corresponding to the IP address would be used automatically.	0.0.0.0

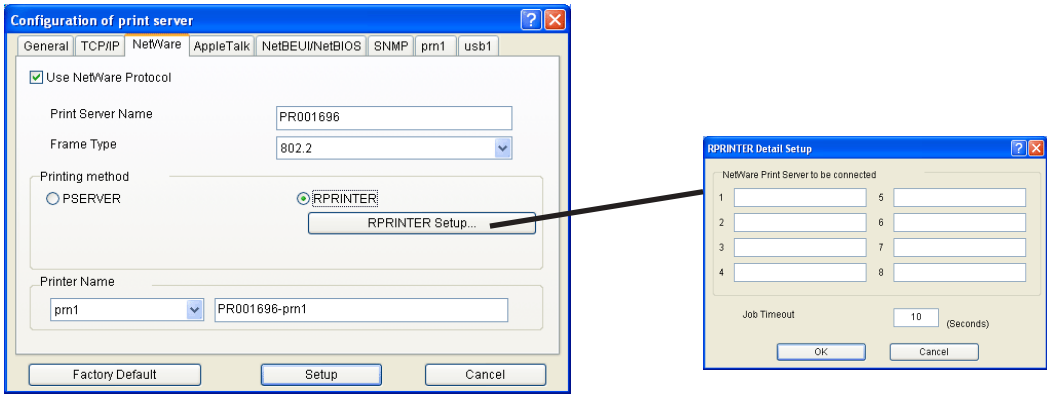
Tab	Item		Explanation	Factory Default
TCP/IP	Default Gateway		Setting the default gateway address. The default gateway address must be 4 numbers, each between 0-255 (eg. 192.168.100.240). If you use a gateway, the gateway must be in the same segment as the print server. However, entering 0.0.0.0 would not be valid.	0.0.0.0
	Using FTP/LPD Banner		You can select to use a banner page when printing with LPR and FTP. (A banner page is print cover page with print job explanations.)	DISABLE
	WINS Server	Primary Server	Setting the WINS server (primary) address. WINS server will resolve the IP address from the host name. Therefore you can use a hostname instead of the IP address when printing. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Secondary Server	Setting the WINS server (secondary) address. WINS server will resolve the IP address from the host name. Therefore you can use a hostname instead of the IP address when printing. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Scope ID	The scoop ID defines the computer group that recognized the registered host name.	-
	Advanced Setup	Use IPv6 Function	Enable IPv6 if you use IPv6.	DISABLE
		ThinPrint	Enable/Disable ThinPrint operations.	ENABLE
		ThinPrint Port Number	Configure the port number to use ThinPrint.	4000
	Access control	Set IP filter	Setting of IP filter operations. Available options are "allow" and "deny". If you select "allow", only the data from the set IP address range are accepted. If you select "deny", the data from the set IP address range can not be received.	DENY
		IP Address range	Setting IP filter range. IP addresses to be filtered can be set to maximum 4 address ranges. If address range setting is not required, please enter the address range from "0.0.0.0" to "0.0.0.0".	0.0.0.0

NetWare Configuration

Operation mode: PSERVER



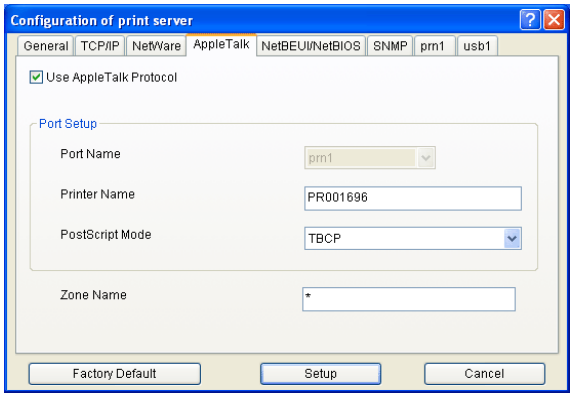
Operation mode: RPRINTER



Tab	Item				Explanation	Factory Default
NetWare	Use NetWare Protocol				Enable/Disable NetWare protocol.	ENABLE
	Print Server Name				Specify the print server name for the print server when starting in PSERVER mode. Because this configuration is used as the identifier on the network in the NetWare protocol, the print server name set must be different from other names in the NetWare environment. It is used as a login name in connecting to the NetWare server.	PRxxxxxx (Lower 6 digits of Ethernet address)
	Frame Type				Select the default frame type of the print server. If the set frame type does not work, it will be changed to a different frame type automatically.	802.2
	Printing method				Select the primary operation mode (PSERVER mode / RPRINTER mode) of the print server. If the set mode does not work, the print server starts in a different mode.	Print server
		PSERVER			Send the job via NetWare	
			Bindery Setup	NetWare File Server to be connected	Set the name of the file server primarily connected to. The print server logs into the file server set here when operating in PSERVER mode. The print server searches the file server automatically and logs in if the value is blank.	-
				Login Password	Set the password that is authenticated when the print server logs into the file server as a PSERVER mode. When the password is set for the print server, the same password must be set to the corresponding file server. If the print server is connected to two or more file servers, the same password must be set to all the file servers.	-
				Job Polling Interval	Set the interval for the print server to query the file server for jobs in units of seconds. Usually the value should be the default.	4
			NDS Setup	NDS Tree Name	Specify the name of the NDS tree connected to. Because the tree name is obtained automatically, it is usually unnecessary to specify it here. When there are two or more trees on the same network it is necessary to specify the name here.	-
				NDS Context	Specify the NDS context connected to in PSERVER mode. The context which created the print server on the file server should be specified here.	-

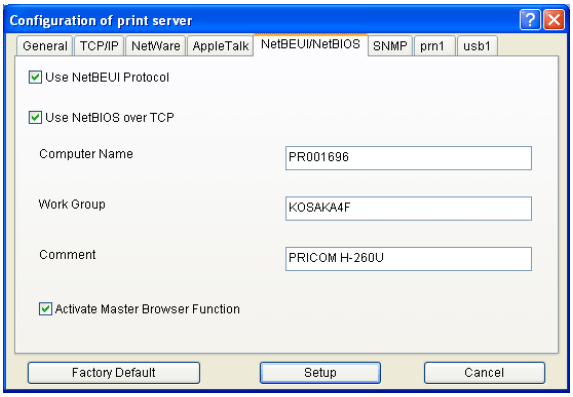
Tab	Item		Explanation			Factory Default
NetWare	Printing Method	RPRINTER	Job management can be performed via NetWare server.			
			RPRINTER Setup	NetWare Print Server to be connected	Set the name of the print server primarily connected to. This product connects to the print server set here when operating in RPRINTER mode. This product searches print server automatically and connects if the value is blank.	-
				Job Timeout	Set the timeout value (in units of seconds) for the print server to determine the end of the job when operating in RPRINTER mode. Usually the value should be the default.	10
	Printer Name		Set the printer name under print server information within the NetWare server. It must be the same as the "Printer Name" registered in the NetWare server.			PRxxxxxx-Prn1 (Lower 6 digits of Ethernet address)

AppleTalk Configuration



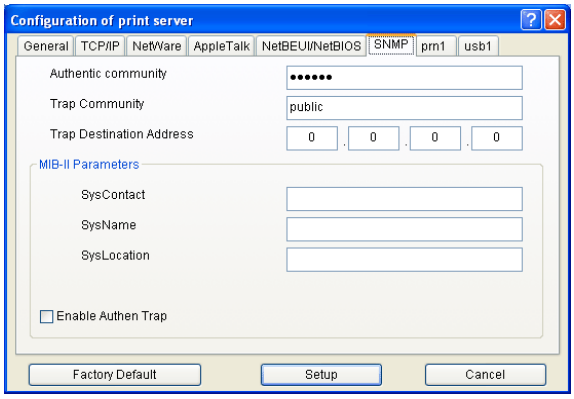
Tab	Item	Explanation	Factory Default
AppleTalk	Use AppleTalk Protocol	Enable/ Disable AppleTalk Protocol operations.	ENABLE
	Printer Name	Set the AppleTalk printer name. The name set here can be seen in the Chooser. The special symbols in AppleTalk protocol ("="; ":"; "@" and "*") must be excluded from the string.	PRxxxxxx (Lower 6 digits of Ethernet address)
	PostScript Mode	When the PostScript printer supports binary mode, PostScript data can be sent in binary. Select BCP or TBCP in accordance with the mode of your printer. Use TBCP when PS binary data is printed by a particular printer. Select ASCII (default) when a printer other than a PostScript one is connected.	TBCP
	Zone Name	The print server sets the zone name where it belongs. If the value is blank, this product will belong to the default zone, set in the AppleTalk Router within the network.	*

NetBEUI/NetBIOS Configuration



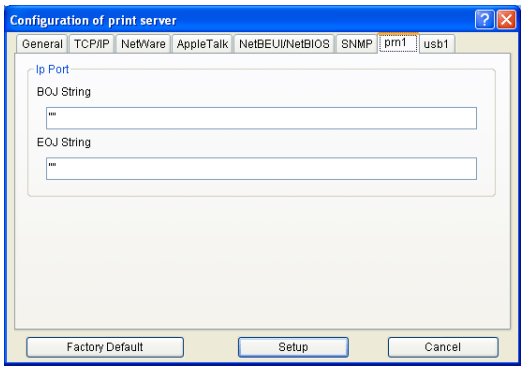
Tab	Item	Explanation	Factory Default
NetBEUI/ NetBIOS	Use NetBEUI Protocol	Enable/ Disable NetBEUI protocol operations.	ENABLE
	Use NetBIOS over TCP	Enable/ Disable NetBIOS over TCP operations.	ENABLE
	Computer Name	Specify a computer name. The name set here is shown as a computer in Windows Explorer. The name must be different from those of other computers.	PRxxxxxx (Lower 6 digits of Ethernet address)
	Work Group	Specify the workgroup that this print server belongs to. Enter the default workgroup name or an existing workgroup name. A new workgroup name that does not exist in the network is not shown as Workgroup.	PrintServers
	Comment	Set the description of the print server. The information set here is shown as the description (comments) of the print server in Windows Explorer.	PRICOM XXXXX
	Activate Master Browser Function	In NetBEUI or NetBIOS over TCP, you can specify whether to activate the master browser function.	ENABLE

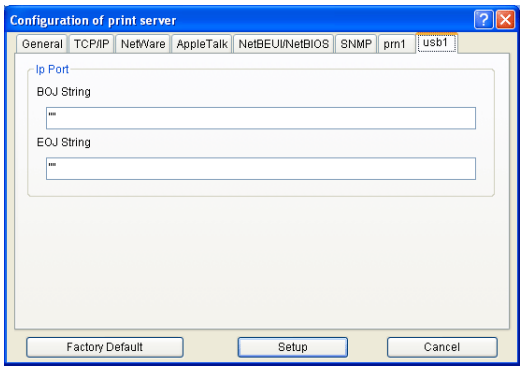
SNMP Configuration



Tab	Item		Explanation	Factory Default
SNMP	Authentic community		Specify the authentication community name of SNMP. This community name is authenticated when an SNMP set request is received.	public
	Trap Community		Specify the trap community of SNMP. This community name is used when the print server send a trap.	public
	Trap Destination Address		Specify the destination IP address of the SNMP trap. The value is a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx.xxx". When the value is "0.0.0.0"(default), this item is disabled and a trap will not be generated in any case.	0.0.0.0
	MIB-II Parameters	SysContact	Specify the SysContact of the MIB-II object. The e-mail address of the network administrator is used.	-
		SysName	Specify the SysName of the MIB-II object. The host name or domain name of the print server is used.	-
		SysLocation	Specify the SysLocation of the MIB-II object. The location of the print server is used.	-
		Enable Authen Trap	Select whether to allow or disallow the "EnableAuthenTrap" of the MIB-II object. If a violation of the community occurs "allow" is the setting, the SNMP trap is sent to the IP address specified in "TRAP Address".	DISABLE

PrinterPort Configuration





Tab	Item		Explanation	Factory Default
prn1 / usb1	lp Port	BOJ String	Specify the string to be transmitted to the printer before output to the direct output port (lp port). Specify the string when a control code, etc. needs to be sent before printing.	-
		EOJ String	Specify the string to be transmitted to the printer after output to the direct output port (lp port). Specify the string when a control code, etc. needs to be sent after printing.	-

Configuration NetWare

Creating NetWare queue

A NetWare object necessary to use PRICOM in the bindery emulation mode or NDS context mode can be created.

TIP

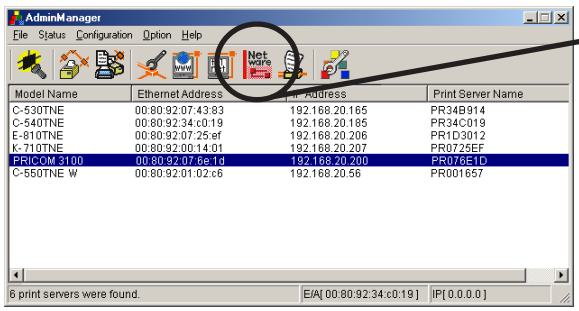
-To control NetWare object, the Novell client software is required.
-AdminManager does not show “Create NetWare queue” icon and option if the Novell client software is not installed.
-Before creating NetWare queue, select AdminManager Settings, then Print Server Configuration, then NetWare to configure NetWare protocol.
-Before creating NetWare queue, contact your network administrator for NetWare environment and print mode.

NOTE

-Also refer to chpter 6.

Using PRICOM with bindery connection

1. Create NetWare queue.

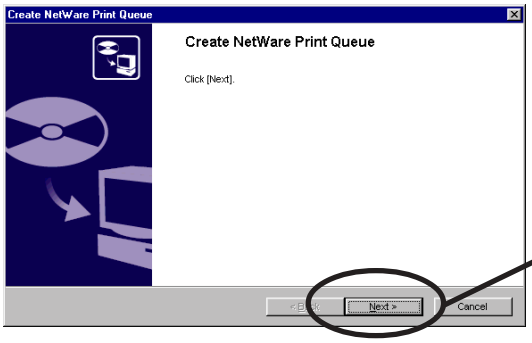


Click ***Create NetWare queue.***

NOTE

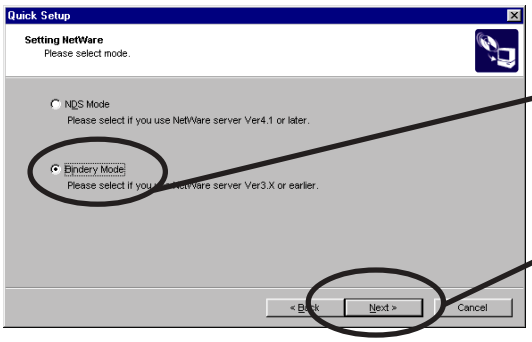
-To run the NetWare queue creation wizard, alternatively click ***Configuration***, then ***Create NetWare queue*** in the AdminManager main menu.

2.Configure NetWare.



Click ***Next.***

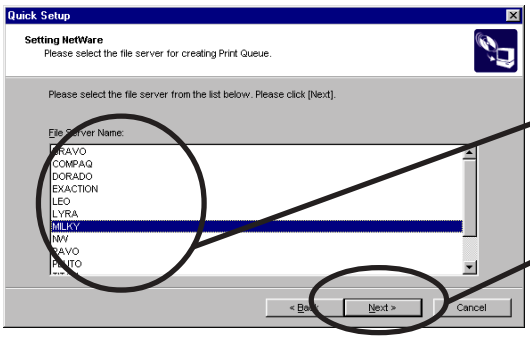
3. Select the NetWare server operation mode.



Select ***Bindary Mode.***

Click ***Next.***

4. Select the file server name to create a print queue.



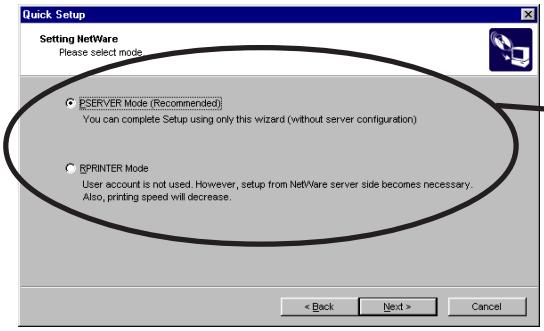
Select the file server name.

Click ***Next.***

TIP

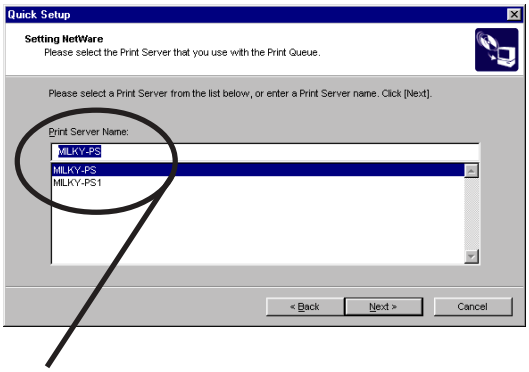
-The next screens to be displayed may vary depending on the NetWare server selected.
NetWare3 or below will go to -> 5 (A)
NetWare4 or above will go to -> 5 (B)
When NetWare 4 or above file server is selected, print server mode will be automatically selected.

5(A). Select printing mode **<NetWare 3 or below>**



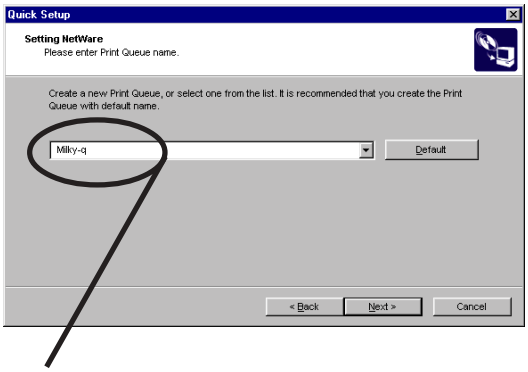
Select the ***PSERVER Mode***.

< Remote printer mode>

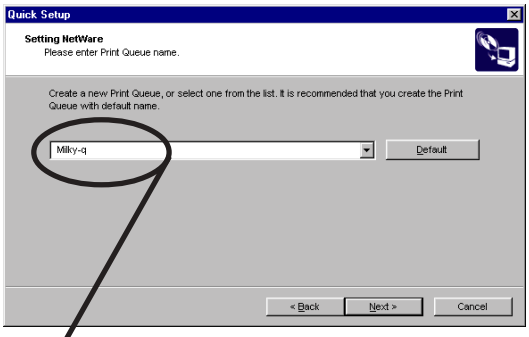


Select print server.

<Print server mode >

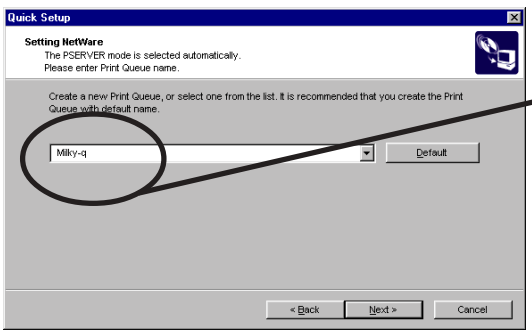


Type print queue name.



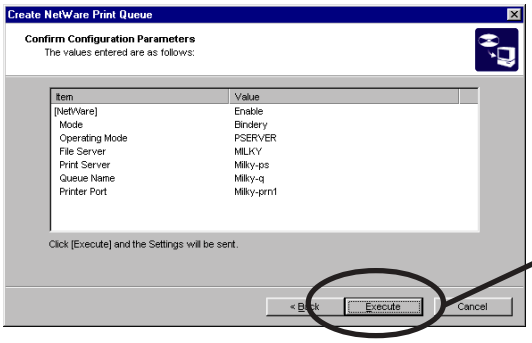
Type print queue name.

5(B). Type print queue name. **<NetWare4 or above>**



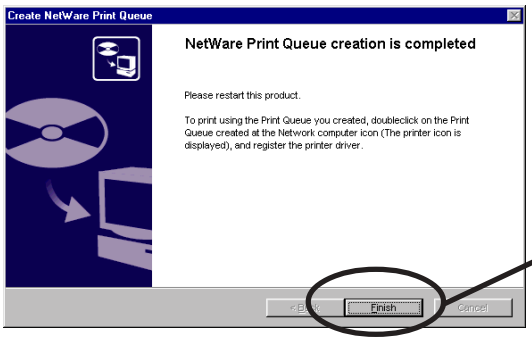
Type the print queue name.

6. Verify the configuration parameters.



Click ***Execute.***

7. Configuration is complete.

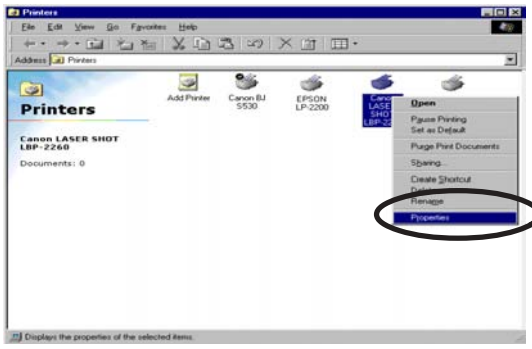


Click ***Finish.***

Using PRICOM via bindery mode: Configuring print port

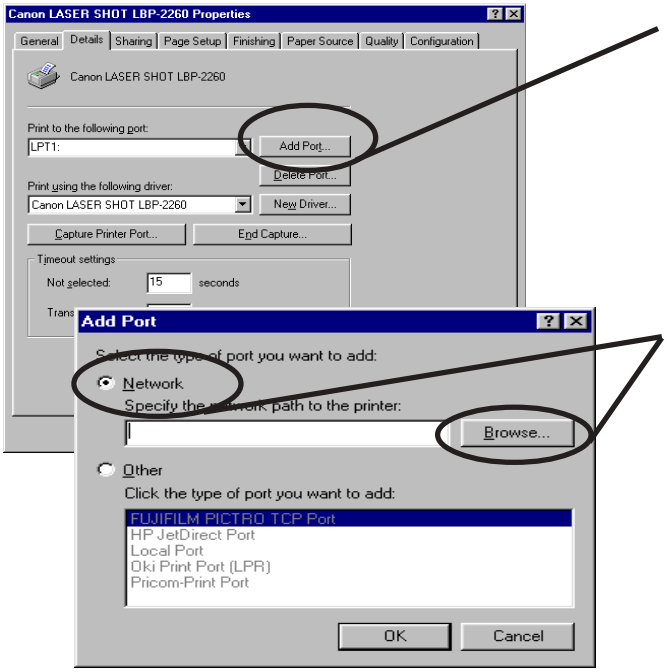
This section explains how to configure printer port tp printer in Windows 95/98/Me.

1. Click ***Start,*** then ***Settings,*** then ***Printers***. Open the ***Properties*** of printer you use.



Select ***Properties*** of the printer to be used.

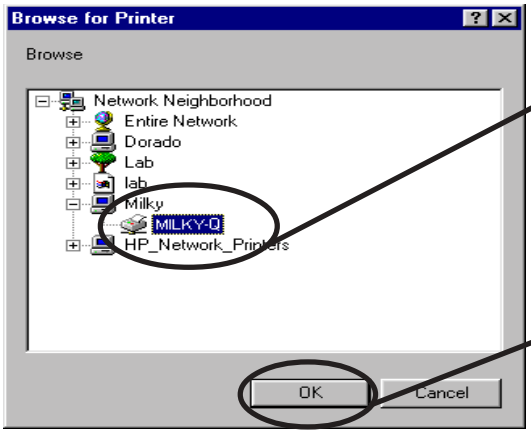
2. Move to ***Details.***



Select ***Add Port.***

Select ***Network*** and Click ***Browse.***

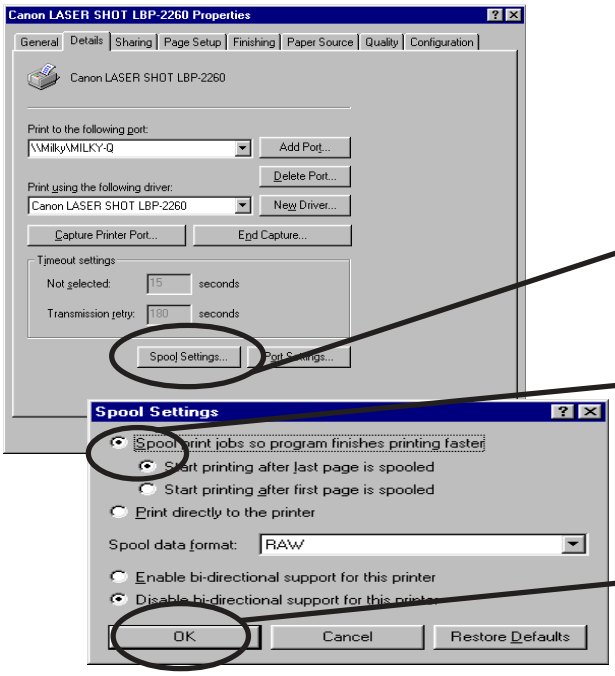
3. Assign a printer queue to printer print port.



Select the print queue to use.

Click ***OK.***

4. Configure spool settings.



Select ***Spool Settings.***

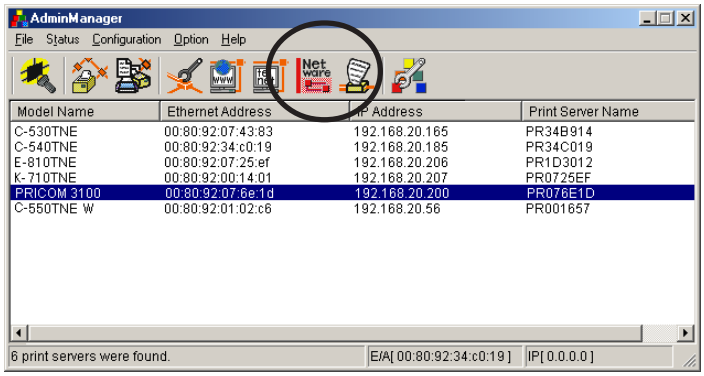
Select ***Start printing after the last page is spooled.***

Click ***OK.***

5. Configuration is complete. Click ***OK*** and close ***Properties.*** Now, PRICOM can be used in NetWare environment.

Using PRICOM via NDS mode.

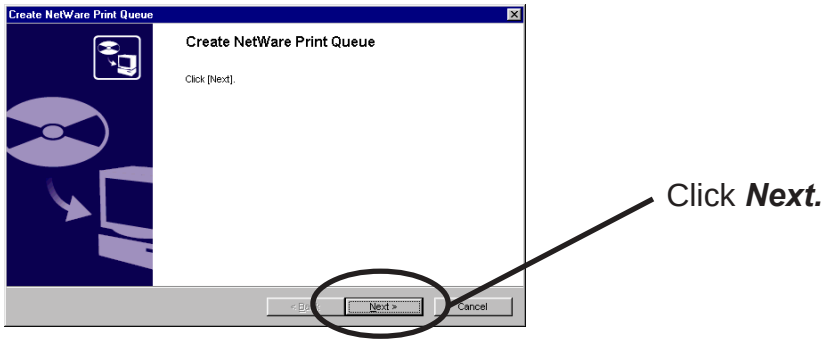
1. Click ***Create NetWare queue***.



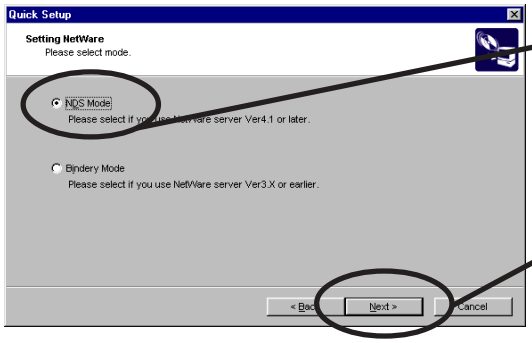
NOTE

-To run the NetWare queue creation wizard, alternatively click ***Configuration***, then ***Create NetWare queue*** in the AdminManager menu.

2. Configure NetWare.



3. Select NetWare server operation mode.



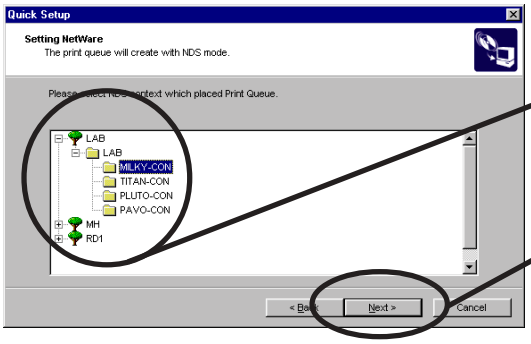
Select ***NDS Mode.***

Click ***Next.***

NOTE

-Contact your network administrator for the operation mode.
For the information on Bindery mode, refer to chapter 6.

4. Select the NDS context to create the print queue.



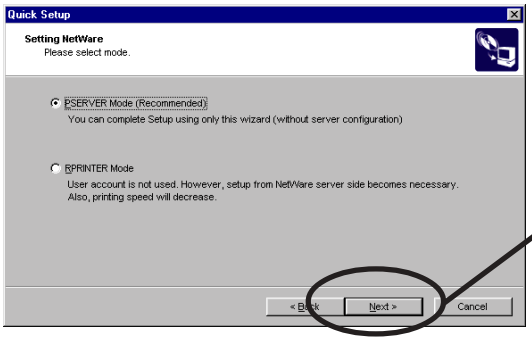
Select NDS context.

Click ***Next.***

TIP

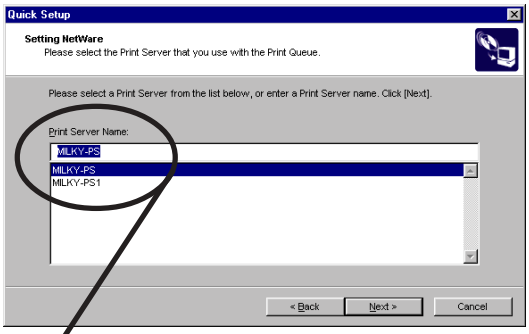
-The next screen to be displayed may vary depending on NDS support availability.
NDS support will go to -> 5 (A)
NDS non-support will go to -> 5 (B)
-When NDS non-support, remote printer mode will be automatically selected.

5(A). Select rhe printing mode. **<NDS support>**



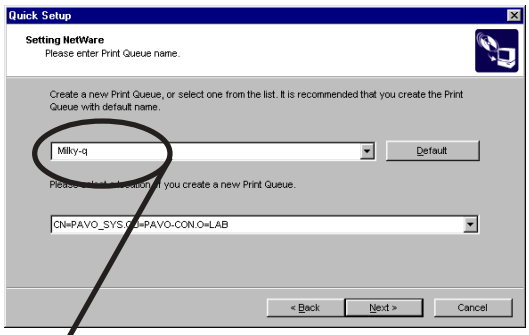
Click ***Next.***

<Remote printer mode>

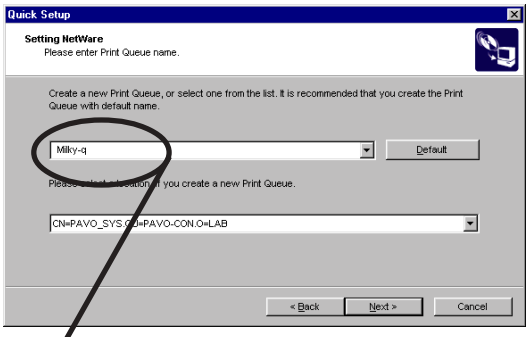


Select print server.

<Print server mode>

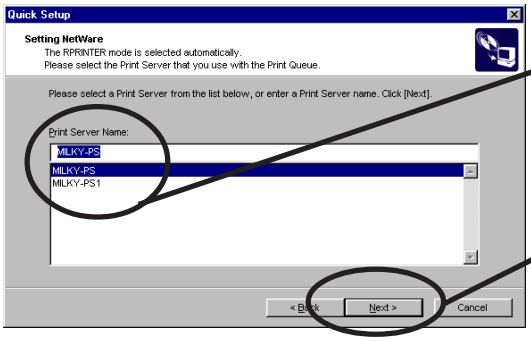


Type print queue name.



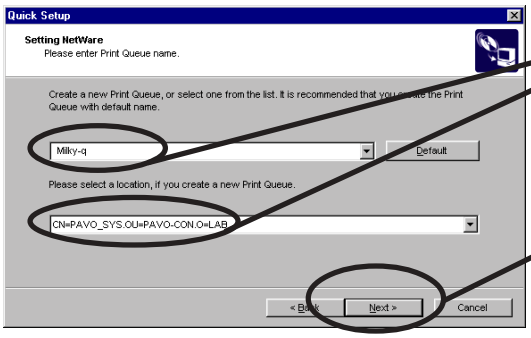
Type print queue name.

5(B). Select the printer server.<NDS non-support>



Select print server.

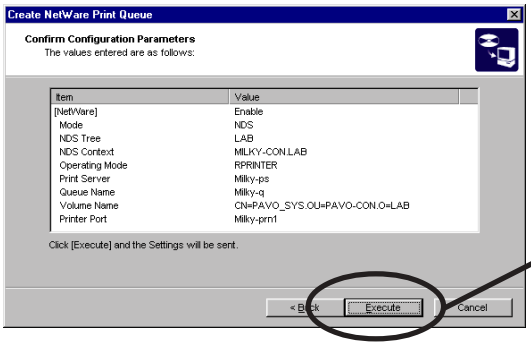
Click ***Next.***



Type print queue name.

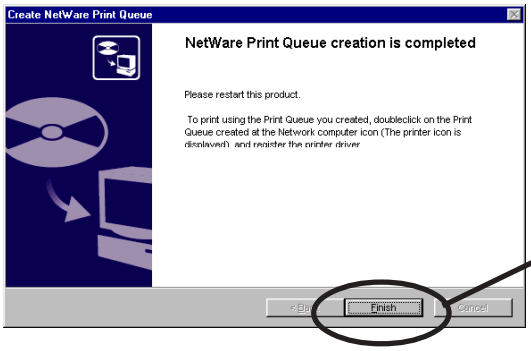
Click ***Next.***

6. Verify the configuration parameters.



Click ***Execute.***

7. Configuration is complete.

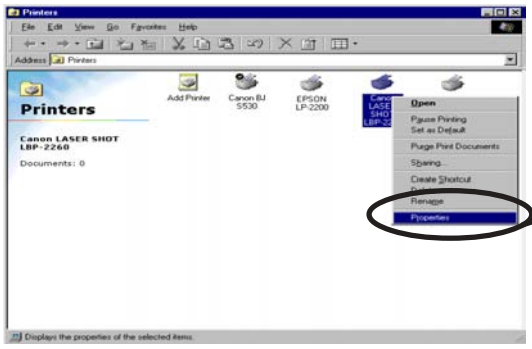


Click ***Finish.***

Using PRICOM via NDS connection: Configuring print port

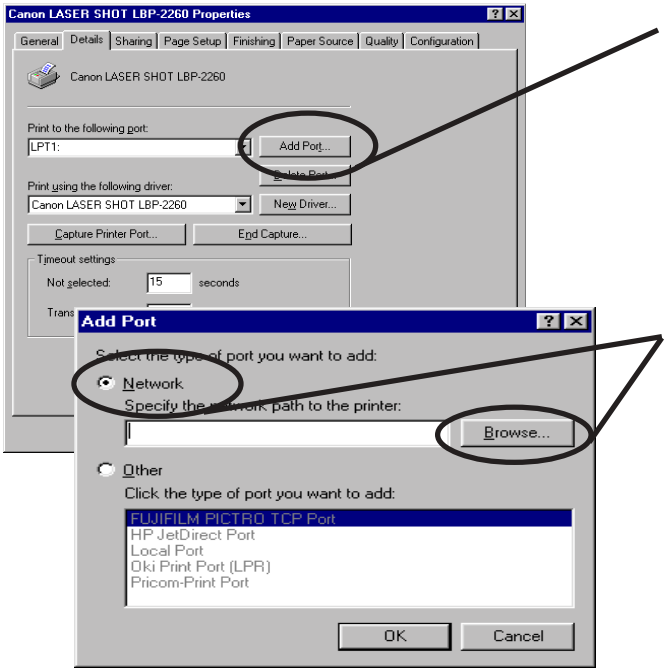
This section explains how to configure printer port to printer in Windows 95/98/Me.

1. Click ***Start***, then ***Settings***, then ***Printers***. Open the ***Properties*** of printer you use.



Select ***Properties*** of the printer to be used.

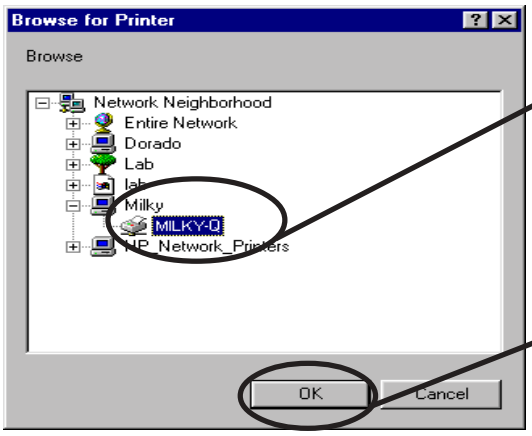
2. Move to ***Details.***



Select ***Add Port.***

Select ***Network*** and Click ***Browse.***

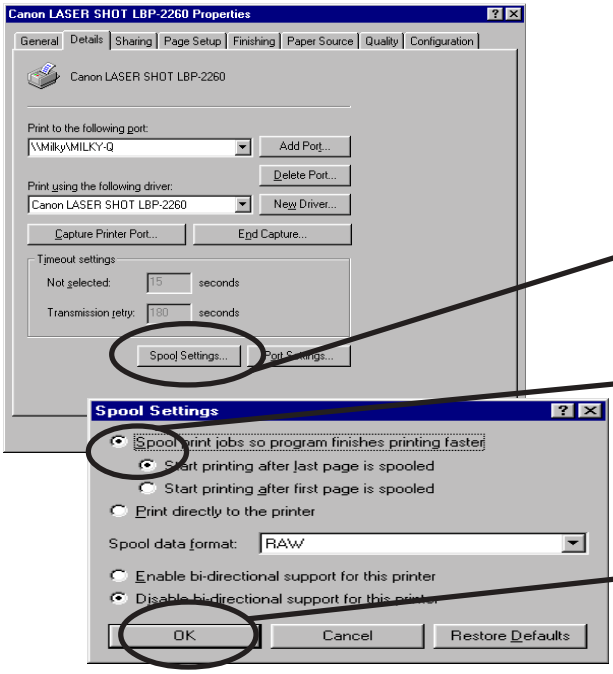
3. Assign a print queue to printer print port.



Select the print queue to use.

Click ***OK.***

4. Configure spool settings.



Select ***Spool Settings.***

Select ***Start printing after the last page is spooled.***

Click ***OK.***

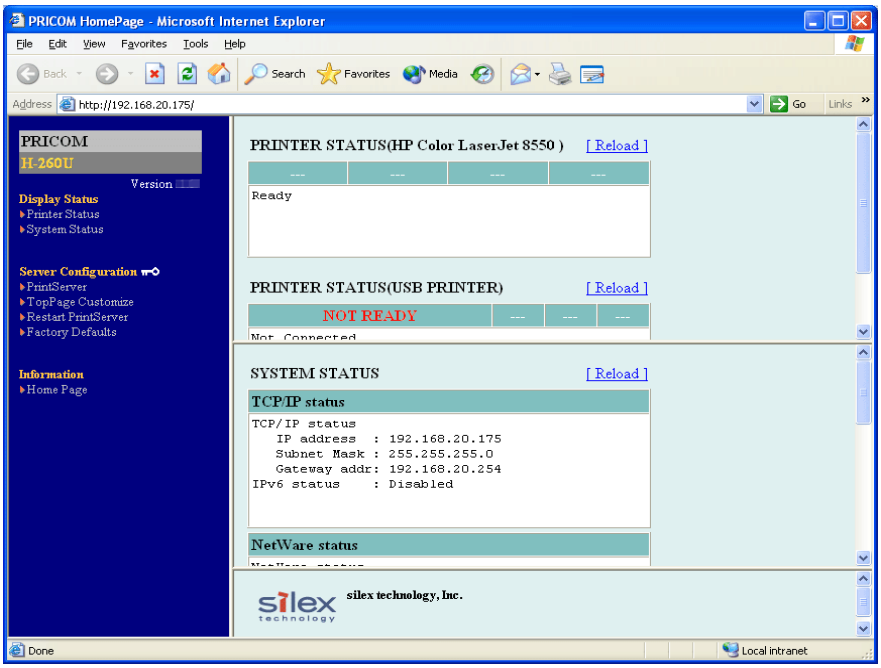
5. Configuration is complete. Click OK and close Properties. Now, PRICOM can be used in NetWare environment.

Configuring PRICOM via Web browser

This chapter explains how to access PRICOM Webpage by using Web browser. PRICOM has HTTP which enables you to check or change PRICOM configuration and check the printer status.

TIP

-IP address must be assigned to PRICOM when using Web browser.
-Internet Explorer3.0 (or above) or Netscape Navigater3.0 (or above) are recommended for Web browser.
-The display contents may vary depending on PRICOM you use.

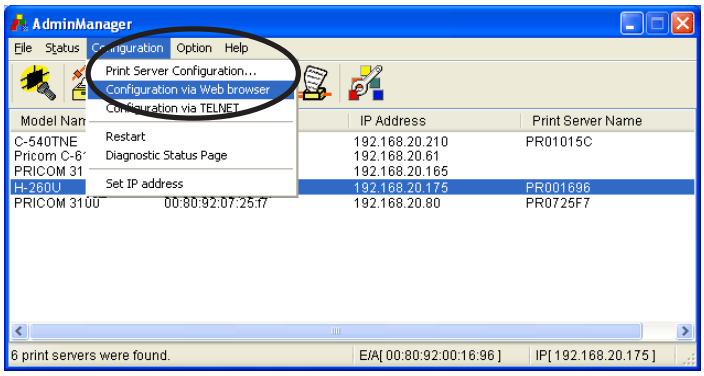


Display PRICOM Webpage

To display the Webpage of PRICOM to be configured, follow one of the following steps.

Displaying the webpage from AdminManager

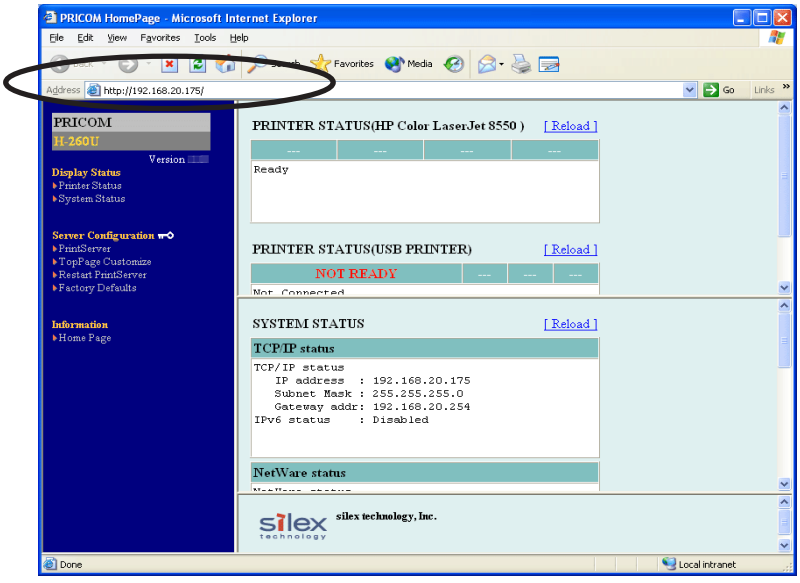
Select PRICOM to be configured from the AdminManager list, then click ***Configuration***, then ***Configuration via Web browser***.



Displaying the webpage from Web browser

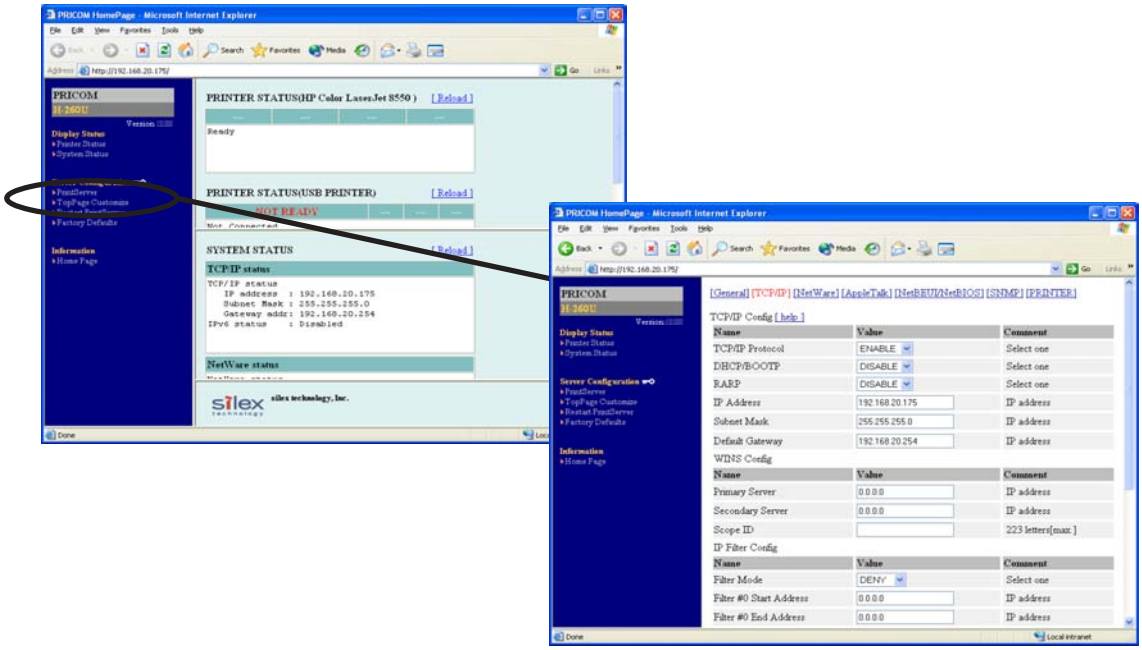
Enter the IP to assign for the PRICOM to the Web browser.

Example: http://192.168.20.175



Configuration via the Webpage

Configuration screen will be displayed if you click the desired items among those listed on the Web browser. Enter the set value into the selected item.



Structure of PRICOM webpage menu.

Item		Explanation
Display Status	Printer Status	Display the status of the printer
	System Status	Display the status of the system
Server Configuration	PrintServer	Set up various parameters of the PRICOM
	E-Mail (recv.)	Set up E-Mail receiving function
	E-Mail (send)	Set up E-Mail transmitting function
	TopPage Customize	Set up the PRICOM Web page display
	Restart PrintServer	Reboot the PRICOM
	Factory Default	Recover the factory settings of PRICOM
Information	Home page	Display silex technology, Inc. homepage

TIP

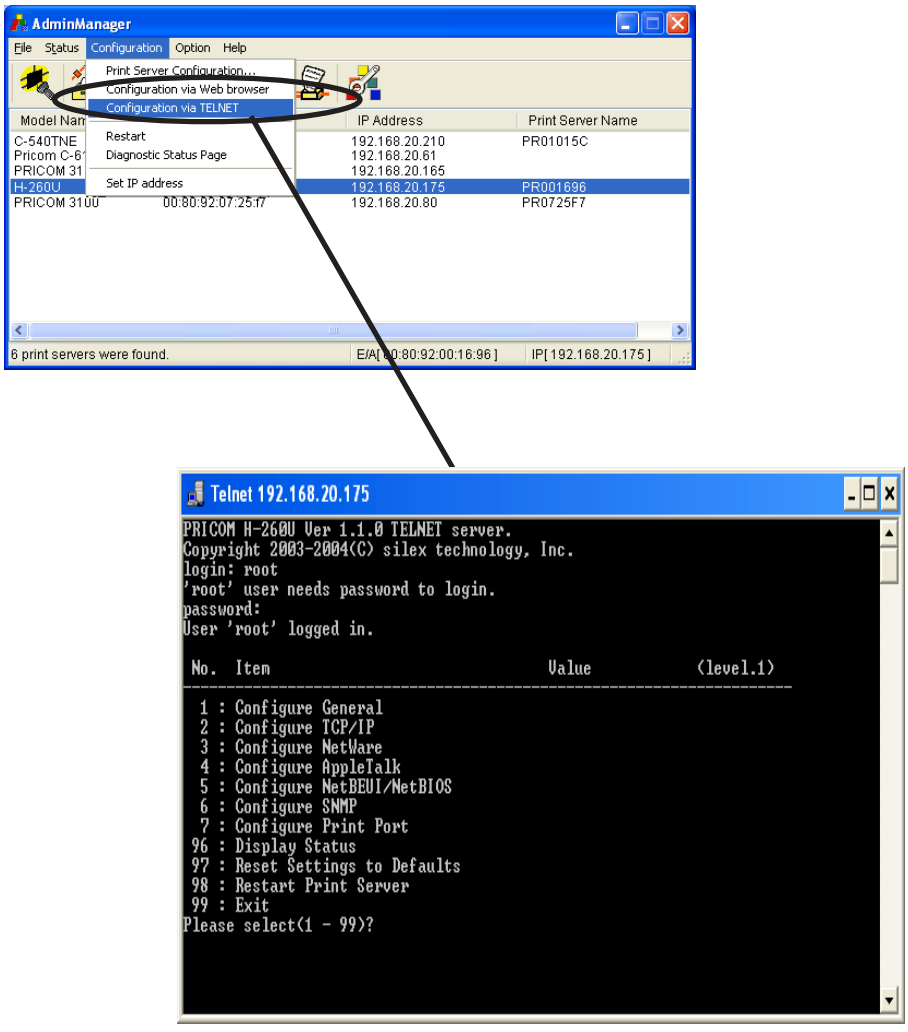
-Top page of PRICOM webpage can be uniquely displayed by using the top page customizing function.

Configuring PRICOM using TELNET

Since TELNET protocol is embedded in PRICOM, TELNET supplied with UNIX machine or PC TCP/IP software can be used to configure PRICOM in detail and also to change configuration.

TIP

-IP address need to be configured if using TELNET.
-You need to log in by root user to configure by TELNET.
-Available function may vary depending on PRICOM you use.



Web browser/TELNET configuration items

Print server function

General

Item			Explanation	Factory Default
	Web browser	TELNET		
General	Change root Password	Change root Password	Please enter the password.(in ASCII TEXT) This password will be used for configuration changes via Telnet, Web page and Setup Tools.	-
	LAN Interface	LAN Interface	Please select the network speed. It is recommended to select "AUTO". If you select "AUTO", the network speed will be detected automatically. If the HUB did not link when you switched on your print server (you can check the HUB's LINK LED), please try a different network speed manually.	AUTO

TCP/IP

Item			Explanation	Facory Default
	Web browser	TELNET		
TCP/IP	TCP/IP Protocol	TCP/IP Protocol	Enable/Disable TCP/IP protocol operations. This has influence on the configuration of Setup Tools, LPR, FTP, TELNET, SNMP, HTTP and other protocols over TCP/IP.	ENABLE
	DHCP/BOOTP	DHCP/BOOTP	Enable/Disable DHCP/BOOTP protocol operations. DHCP/BOOTP is a protocol, via which IP address gets assigned by the BOOTP server or DHCP server. If you use DHCP/BOOTP server, the DHCP/BOOTP server must be in the same segment as the print server. This print server detects DHCP and BOOTP automatically. If more than 1 address get returned, the IP address which is returned first will be used.	ENABLE
	RARP	RARP	Enable/Disable RARP protocol operations. RARP is a protocol, via which IP address gets assigned by the RARP server. If you use RARP server, the RARP server must be in the same segment as the print server.	ENABLE

	Item		Explanation	Factory Default
	Web browser	TELNET		
TCP/IP	IP Address	IP Address	Setting the Print Server IP address. The IP address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
	Subnet Mask	Subnet Mask	Setting the print server subnet mask. The subnet mask must be 4 numbers, each between 0-255 (eg. 255.255.255.0). However, entering 0.0.0.0 would not be valid, and the subnet mask corresponding to the IP address would be used automatically.	0.0.0.0
	Default Gateway	Default Gateway	Setting the default gateway address. The default gateway address must be 4 numbers, each between 0-255 (eg. 192.168.100.240). If you use a gateway, the gateway must be in the same segment as the print server. However, entering 0.0.0.0 would not be valid.	0.0.0.0
		IPv6 Function	Enable IPv6 if you use IPv6.	DISABLE
	WINS Config			
	Primary Server	Primary Server	Setting the WINS server (primary) address. WINS server will resolve the IP address from the host name. Therefore you can use a hostname instead of the IP address when printing. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
	Secondary Server	Secondary Server	Setting the WINS server (secondary) address. WINS server will resolve the IP address from the host name. Therefore you can use a hostname instead of the IP address when printing. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
	Scope ID	Scope ID	The scoop ID defines the computer group that recognized the registered host name.	-
	IP Filter Config			
	Filter Mode	Filter Mode	Setting of IP filter operations. Available options are "allow" and "deny". If you select "allow", only the data from the set IP address range are accepted. If you select "deny", the data from the set IP address range can not be received.	DENY
	Filter #0-3 Start/End address	Filter #0-3 start/end address	Setting IP filter range. IP addresses to be filtered can be set to maximum 4 address ranges. If address range setting is not required, please enter the address range from "0.0.0.0" to "0.0.0.0".	0.0.0.0
	ThinPrint Config			
	ThinPrint	ThinPrint	Enable/Disable ThinPrint operations. (Only TCP/IP model)	ENABLE
	ThinPrint Port Number	ThinPrint Port Number	Configure the port number to use ThinPrint. (Only TCP/IP model)	4000

NetWare

	Item		Explanation	Factory Default
	Web browser	TELNET		
Net Ware	NetWare Protocol	NetWare Protocol	Enable/Disable NetWare protocol.	ENABLE
	Frame Type	Frame Type	Select the default frame type of the print server. If the set frame type does not work, it will be changed to a different frame type automatically.	802.2
	Operation Mode	Operation Mode	Select the primary operation mode (PSERVER mode / RPRINTER mode) of the print server. If the set mode does not work, the print server starts in a different mode.	PSERVER
	PSERVER Config		Send the job via NetWare	
	Print Server Name	Print Server Name	Specify the print server name for the print server when starting in PSERVER mode. Because this configuration is used as the identifier on the network in the NetWare protocol, the print server name set must be different from other names in the NetWare environment. It is used as a login name in connecting to the NetWare server.	PRxxxxxx (Lower 6 digits of Ethernet address)
Net Ware	Login Password	Login Password	Set the password that is authenticated when the print server logs into the file server as a PSERVER mode. When the password is set for the print server, the same password must be set to the corresponding file server. If the print server is connected to two or more file servers, the same password must be set to all the file servers.	-
	Job Polling (sec.)	Job Polling (sec.)	Set the interval for the print server to query the file server for jobs in units of seconds. Usually the value should be the default.	4
	Bindery Mode	Bindery Mode	Enable/ Disable Bindery Mode operation. If disabled, only NDS mode is available. Except cases where you want to use NDS mode only, it is recommended not to disable it.	ENABLE
	FSERVER Name (1-8)	FSERVER Name (1-8)	Set the name of the file server primarily connected to. The print server logs into the file server set here when operating in PSERVER mode. The print server searches the file server automatically and logs in if the value is blank.	-
	NDS Tree	NDS Tree	Specify the name of the NDS tree connected to. Because the tree name is obtained automatically, it is usually unnecessary to specify it here. When there are two or more trees on the same network it is necessary to specify the name here.	-
	NDS Context	NDS Context	Specify the NDS context connected to in PSERVER mode. The context which created the print server on the file server should be specified here.	-
	RPRINTER Config		Job management can be performed via NetWare server.	
	PSERVER Name (1-8)	PSERVER Name (1-8)	Set the name of the print server primarily connected to. This product connects to the print server set here when operating in RPRINTER mode. This product searches print server automatically and connects if the value is blank.	-
	Job Timeout(sec.)	Job Timeout (sec.)	Set the timeout value (in units of seconds) for the print server to determine the end of the job when operating in RPRINTER mode. Usually the value should be the default.	10

AppleTalk

	Item		Explanation	Factory Default
	Web browser	TELNET		
AppleTalk	AppleTalk Protocol	AppleTalk Protocol	Enable/ Disable AppleTalk Protocol operations.	ENABLE
	Zone Name	Zone Name	The print server sets the zone name where it belongs. If the value is blank, this product will belong to the default zone, set in the AppleTalk Router within the network.	*
	Printer Name	Printer Name	Set the AppleTalk printer name. The name set here can be seen in the Chooser. The special symbols in AppleTalk protocol ("="; ":"; "@" and "*") must be excluded from the string.	PRxxxxxx (Lower 6 digits of Ethernet address)
	PostScript Mode	PostScript Mode	When the PostScript printer supports binary mode, PostScript data can be sent in binary. Select BCP or TBCP in accordance with the mode of your printer. Use TBCP when PS binary data is printed by a particular printer. Select ASCII (default) when a printer other than a PostScript one is connected.	TBTC

NetBEUI/NetBIOS

	Item		Explanation	Factory Default
	Web browser	TELNET		
NetBEUI/ NetBIOS	NetBEUI Protocol	NetBEUI Protocol	Enable/ Disable NetBEUI protocol operations.	ENABLE
	NetBIOS over TCP	NetBIOS over TCP	Enable/ Disable NetBIOS over TCP operations.	ENABLE
	Computer Name	Computer Name	Specify a computer name. The name set here is shown as a computer in Windows Explorer. The name must be different from those of other computers.	PRxxxxxx (Lower 6 digits of Ethernet address)
	Workgroup	Workgroup	Specify the workgroup that this print server belongs to. Enter the default workgroup name or an existing workgroup name. A new workgroup name that does not exist in the network is not shown as Workgroup.	PrintServers
	Comment	Comment	Set the description of the print server. The information set here is shown as the description (comments) of the print server in Windows Explorer.	PRICOM XXXXX
	Browse Master	Browse Master	In NetBEUI or NetBIOS over TCP, you can specify whether to activate the master browser function.	ENABLE

SNMP

	Item		Explanation	Factory Default
	Web browser	TELNET		
SNMP	Authentic Community	Authentic Community	Specify the authentication community name of SNMP. This community name is authenticated when an SNMP set request is received.	public
	Trap Community	Trap Community	Specify the trap community of SNMP. This community name is used when the print server send a trap.	public
	Trap Address(IP)	Trap Address(IP)	Specify the destination IP address of the SNMP trap. The value is a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx.xxx". When the value is "0.0.0.0"(default), this item is disabled and a trap will not be generated in any case.	0.0.0.0
	SysContact	SysContact	Specify the SysContact of the MIB-II object. The e-mail address of the network administrator is used.	-
	SysName	SysName	Specify the SysName of the MIB-II object. The host name or domain name of the print server is used.	-
	SysLocation	SysLocation	Specify the SysLocation of the MIB-II object. The location of the print server is used.	-
	EnableAuthenTrap	EnableAuthenTrap	Select whether to allow or disallow the "EnableAuthenTrap" of the MIB-II object. If a violation of the community occurs "allow" is the setting, the SNMP trap is sent to the IP address specified in "TRAP Address".	2

PRINTER

	Item		Explanation	Factory Default
	Web browser	TELNET		
PRINTER	Printer Name	Printer Name	Set the printer name to register in "Print Server Information" of the NetWare server. It must be same as the "Printer Name" registered in the NetWare server.	PRxxxxxx-prn1/ PRxxxxxx-usb1 (Lower 6 digits of Ethernet address)
	BOJ String (lp)	BOJ String (lp)	Specify the string to be transmitted to the printer before output to the direct output port (lp port). Specify the string when a control code, etc. needs to be sent before printing.	-
	EOJ String (lp)	EOJ String (lp)	Specify the string to be transmitted to the printer after output to the direct output port (lp port). Specify the string when a control code, etc. needs to be sent after printing.	-
	Use FTP/LPD Banner	Use FTP/LPD Banner	You can select to use a banner page when printing with LPR and FTP. (A banner page is print cover page with print job explanations.)	NO

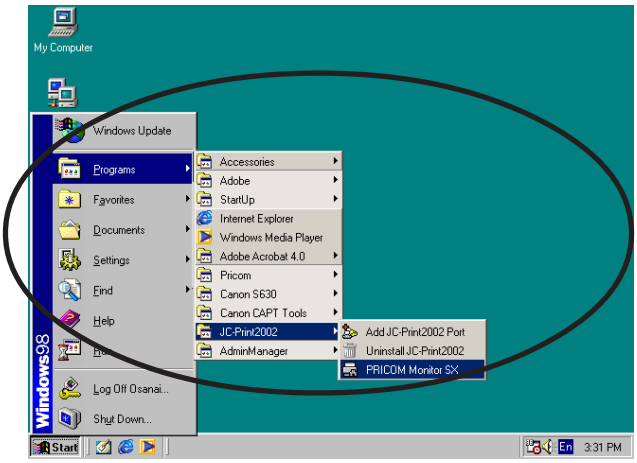
9. PRICOM Monitor SX

About PRICOM Monitor SX

PRICOM Monitor SX (Pop-up Printer Status Monitor) displays printer status on your PC screen. PRICOM Monitor SX resides on yoru PC screen and monitors printer status at real time.

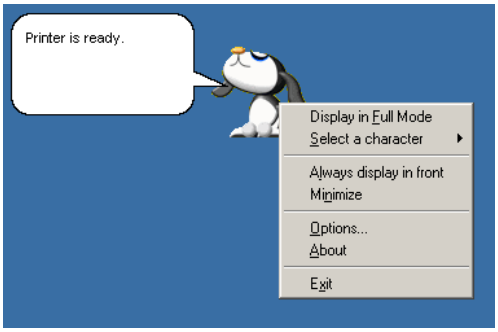
Starting PRICOM Monitor SX

Click ***Start***, then ***Programs***, then ***JC-Print2002*** (or a name specified optionally), then ***PRICOM Monitor SX.***



Display PRICOM Monitor SX (character mode)

Printer status will be displayed by character and balloon.



-Character

Displays printer status by amimation.

NOTE

-You can select a character to be used among the four characters.

-Status Message (balloon)

Displays printer status by words.

[Printing]

[Busy]

[Ready]

NOTE

-You can close the balloon by by clicking the baloon. You can display balloon by left-clicking the character.

Menu Structure

Menu bar will be displayed by right-clicking the character; the following options are available.

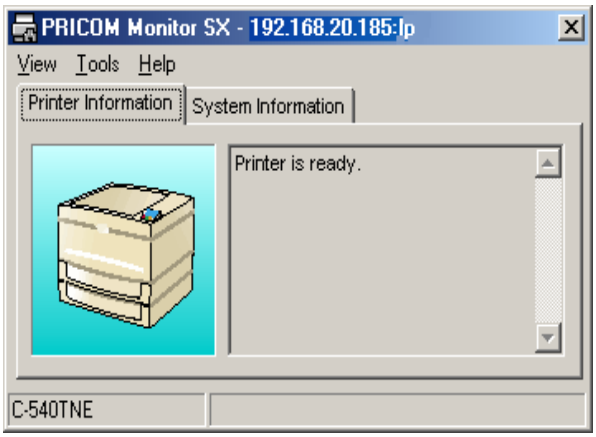
Item	Description
Displays in full mode	Displays printer status by windows.
Selects character	Switches the character to be displayed. You can select a character to be displayed among the four characters.
Always displays in front	Always displays PRICOM Monitor SX in front. However, when other windows set to be displayed in front, PRICOM Monitor SX is displayed on the back of the window.
Minimize	Minimize the window. To back to the original size, click the icon in task bar.
Option Configuration	Displays option configuration dialogue.
Version Information	Displays version information.
Finish	Finishes PRICOM Monitor SX.

Display PRICOM Monitor SX (Full Mode)

You can display the printer detailed information by standard windows.

Printer Information

Displays printer status and printing status.



-Status Message

Displays printer status by words.

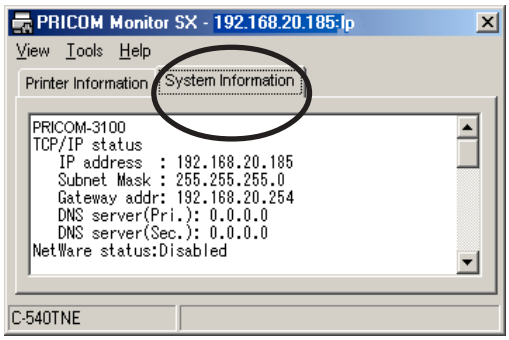
-Model

Displays PRICOM model.

-Transmission Status

Displays print data transmission status.

System Information



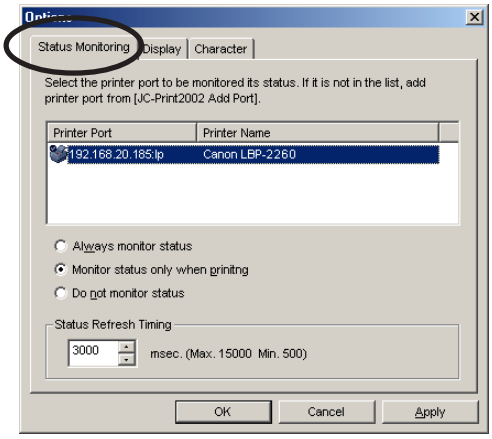
Menu Structure

Menu	Item	Description
Display	Displays in character mode	Displays printer status by character and balloon.
	Always displays in front	Always displays PRICOM Monitor SX in front. However, when other windows set to be displayed in front, PRICOM Monitor SX is displayed on the back of the window.
	Minimize	Minimize the window. To back to the original size, click the icon in task bar.
	Finish	Finishes PRICOM Monitor SX.
Utility	Option Configuration	Displays option configuration dialogue.
Help	Version Information	Displays version information.

Option Configuration Dialogue

You can specify the condition of PRICOM Monotor SX. Click ***Optoion*** when using the monitor in character mode or full mode.

Status Monitoring



-JC-Print2002 Port List

The list of JC-Print2002 port registerd in your PC will be displayed. Select the product you want to monitor from the list.

TIP

-LPR port and Raw (9100) port are displayed in the JC-Print2002 port list. IPP port is not displayed.

-Always monitor the printer status

The printer status can be constantly monitored by having the monitor reside in the system.

-Monitor the printer status only while printing

You can monitor the printer status only while printing by JC-Print2002 port. When the printing data tramsimission is complete by JC-Print2002 port, the status monitoring window is automatically deactivated

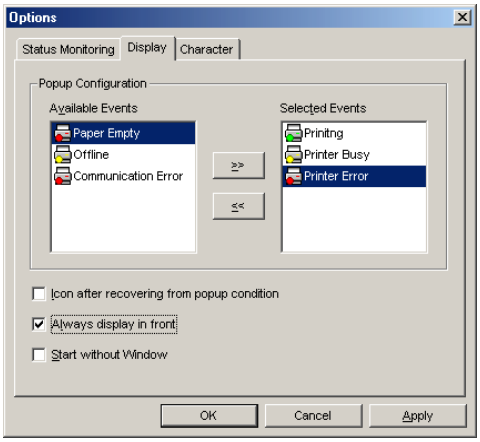
-Disable the printer status monitoring

The printer status monitoring is disabled. To reactivate the printer status monitoring function, you need to restart the PRICOM Monitor SX each time.

-Status refresh interval setting

You can configure the interval time to refresh the printer status information.

Display



-Available Events
List of events which PRICOM Monitor SX can display.

-Event selected
This list shows the events selected to be displayed in PRICOM Monitor SX.
PRICOM Monitor SX to be displayed when the printer status coincide with the events confired here.

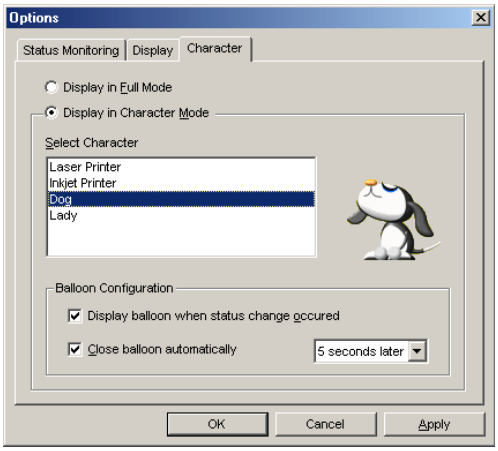
-Add the items in Available Events to Events selected.
-Return the items in Event seleced to Available Events.

-Iconize after recovering from popup conditions.
PRICOM Monitor SX will be minimized and resided in task bar after printer event is closed.

-Always display on top.
PRICOM Monitor SX is always dieplayed on top. When other windows set to be displayed on top, PRICOM Monitor SX is displayed on the back of the window. (Default: On)

-Activated with minimized.
Activate PRICOM Monitor SX with minimized. (Default: Off)

Character



-Displays in full mode
Displays printer status by standard window screen.

-Displays in character mode
Displays printer status by the character selected with baloon.

-Selects character
Character selected informs you of printer status.

-Displays printer status in the balloon
Printer status will be described in the balloon when printer status change occurs.

-Close the character automatically
You can close the character automatically. You can also specify the time interval from displaying to closing the character. (Default: 5 seconds)

10. Questions & Answers

This chapter explains the trouble shooting procedures for possible problems you may experience while installing PRICOM.

Legend;

CHECK

Make sure to verify the listed items to identify your problem.

SOLUTION

Find the trouble shooting procedure for resolution.

Further, please visit our web site (www.silex.jp) for the most latest product FAQ and support information.
Please contact our customer support center in case your problem is not listed in this manual/ our web site, or can not be still resolved by the given information.

Problems while Initial Installation

Main menu does not start even after inserting the CD-ROM

SOLUTION

If your computer does not support Autorun, the menu will not start automatically even after inserting the CD-ROM. In this case, execute Autorun. exe in the root directory of the CD-ROM.
In Macintosh environment, autorun function is not supported. Double-click the icon for your operationg version from [User Software SX] folder.

PRICOM is not found even after searching in the configuration utility (Quick Setup, AdminManager) or PRICOM is not recognized in the network

CHECK1

Check the followings and retry the configuration.
-If the printer for internal PRICOM type is turned on or PRICOM power is turned on.
-Print the self-diagnostic and configuration report. If NG is printed, refer to "NG is printed in the diagnostic report....." on page 3 of this chapter.
-If the parameters are configured correctly.

NOTE

-For printing self-diagnostic/configuration report, refer to chapter 1.

CHECK2

For non-wireless PRICOM models, check the following and retry the configuration.

-If the LINK LED of PRICOM and the Ethernet HUB are blinking. If not, check the proper network cable connection.
-If the Ethernet HUB is working properly.

CHECK3

When operating in Windows environment, run AdminManager and click ***Option***, then ***search using TCP/IP protocol.*** When operating in NetWare environment, click ***Search using IPX/SPX protocol***, and search PRICOM again.

CHECK4

When you use TCP/IP protocol in Windows XP environment, click ***Local Area Connection Properties,*** then ***Advanced***, then remove the check from ***Protect my computer and network by limiting or preventing access to this computer from the Internet.***

SOLUTION

If your problems still continues after Check 1, 2 and 3, initialize PRICOM to factory default and retry the configuration corresponding to your network environment.

NOTE

-For initializing PRICOM to factory default, refer to chapter 1.

Unable to print self-diagnostic report

CHECK1

Make sure that the printer is ready for printing. (Online, Interface type etc.)

CHECK2

Check the printer data receive lamp.
If it is lighting, off-line the printer and press the eject button.

NG is printed in self-diagnostic report

CHECK

Check if the following applies before turning on PRICOM or printer.

-Check the proper connection between PRICOM and printer when you find NG in ROM or RAM.

-When you find NG in EEPROM check, the you may have improper connection between PRICOM and printer or improper Dip switch settings.

-When you find NG in NIC check, check the proper connection of the network cable.

Communication error occurs when configuring IP address

CHECK

-Make sure if printer is activated, also cable/ HUB port is not defective.
-Send PING command from MS-DOS to verify the proepr communication between your PC and other PCs in the network.
-Verify if PRICOM has been initialized to factory default.
* For the procedure to initialize PRICOM to factory default, refer to chapter 1.
-DHCP or RARP server may exist in the network.
* An inappropriate IP address may have been assigned to PRICOM by Rooter or the servers. Configure IP address in a local environment where rooter or server do not exist (one PC, one HUB, one printer and one PRICOM exist in the environment).
-PRICOM and the PC you are using for the configuration may not be in the same segment.
*Verify that PRICOM and the PC you are using for the configuration are in the same segment.

Problems in Printing

Print job in not printed

CHECK1

Check the followings and retry the configuration. For internal PRICOM type, check if the printer is turned on or PRICOM power is turned on.

CHECK2

For non-wireless PRICOM models, check the following and retry the configuration.
-If PRICOM power is turned on.
-If LINK LED of PRICOM and the Ethernet HUB are blinking.
-If the network cable is not defective.
-If the Ehternet HUB is working properly.

CHECK3

Printing data such as text may not be printed due to nonexistence of eject command. In such case, verify if the printer job lump lights and push ***off-line*** button, then ***Eject*** button to eject the data.

NOTE

-**Windows, NetWare, UNIX.**
When "/f" is specified in EOJ string or EOJ string (kanji) of PRICOM, the text data without eject command will be automatically processed to print.
-Macintosh
When "/x04" is specified in EOJ string, the text data without eject command will be automatically processed to print.

Problems in TCP/IP

Print job in not printed

CHECK1

If you are using TCP/IP protocol, ping PRICOM with the assigned IP address to see if there are any reply. If there is no reply to ping, IP address may not have been configured properly.
Reset PRICOM to factory default and configure again from the beginning.

Example:
Issue ping in Windows 98 MS-DOS
Click ***Start*** - ***Programs*** - ***MS-DOS Prompt***, then execute Ping xxx.xxx.xxx.xxx.
You will see the message below. "xxx.xxx.xxx.xxx" is the IP address configured to PRICOM.

-When there is a reply to Ping:

Reply from xxx.xxx.xxx.xxx:bytes=32 time=58ms TTL=253
Reply from xxx.xxx.xxx.xxx:bytes=32 time=58ms TTL=253
Reply from xxx.xxx.xxx.xxx:bytes=32 time=58ms TTL=253
Reply from xxx.xxx.xxx.xxx:bytes=32 time=58ms TTL=253

-When there is no reply to Ping:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

NOTE

-For the initializing PRICOM to factory default, refer to chapter 1.

CHECK2

The Destination printer port of printer driver may not have been configured properly. Click ***Printer*** at Properties, then ***Details***, then check the printer port name of PRICOM at ***Print to the following port***. The port name is indicated "JC-Print2002 LPR Port" or "JC-Print2002 IPP Port" or "JC-Print2002 Raw Port" after the assigned port name.

Ex.) Printer port=xxx.xxx.xxx.xxx: lp (JC-Print2002 LPR Port)
* xxx.xxx.xxx.xxx. = IP Address

SOLUTION1

When the PC and PRICOM are not on the same segment, a subnet mask and lately address must be configured on PRICOM. Using AdminManager or PRICOM web page to verify that subnet mask and gateway address are correctly configured.

SOLUTION2

If DHCP/BOOTP server or RARP server resides on the network, the IP addresses are assigned automatically, which may rewrite the IP address that you have manually assigned to PRICOM. To avoid this problem, tick off ***Use DHCP/BOOTP*** check box and configure the IP address again.

Error during printing

CHECK

If you try to print while other users are printing large data (e.g. many pages or color pages with high resolution), the printer is unable to accept your print job until the ongoing print is finished. If the waiting time of your print job exceeds a certain limit, a time out occurs, which causes the error message. In such case, execute the print job again afterwards.

Dial-up connection box appears when printing job is executed.

CHECK

Printing will be complete after you cancel this dial box to shift the process to LAN adapter from the dial-up adapter. This problem is caused due to Windows specifications.

Problems in Windows NetBEUI/NetBIOS over TCP/IP

Error message appears when printing with NetBEUI

SOLUTION

Error message may appear depending on printer status due to NetBEUI protocol specification. When this phenomenon disturbs operation, use LPD/IPP printing in TCP/IP protocol.

Problems in UNIX/Linux

When printing kanji text on UNIX, kanji code is mutilated.

CHECK

PRICOM is compatible with "SJIS" and "EUC" kanji filter.
Check the kanji code of printing data.
When ejecting the data through PRICOM kanji filter, configure the printer kanji code to "JIS".

When test printing with “Red Hat Linux queue creating tool”, characters are mutilated

SOLUTION

Select RAW print queue in the printer driver, print "ASCII Test Page" which can be processed without printer driver. If the printing is processed properly, there may be a problem with your printer driver. Contact your printer manufacturer for the appropriate LINUX printer driver information.

Problems in NetWare

PRICOM can not establish the connection with NetWare

CHECK1

From the AdminManager or the PRICOM Web page, verify the proper configuration for "Frame Type", "Mode".

NOTE

-The automatic changeover of NetWare operation mode on PRICOM may require some time depending on the operating environment.

CHECK2

When two or more PRICOMs are used, make sure that the same printer name (NetWare printer name) is not duplicated.

PRICOM can not establish the connection with NetWare server (RPRINTER mode)

CHECK1

Click ***Print server***, then ***Printer list,*** then ***Current status*** on NetWare server to verify if the PRICOM is operating properly.

CHECK2

Make sure that the ***Print Server Name*** specified on the PRICOM is the same as that of the print server operating on your file server.

PRICOM can not establish the connection with NetWare server. (PSERVER mode)

SOLUTION

Verify that the following parameters in PRICOM consistent with those in the NetWare server.

* File server name (when the file server is specified)
* Printer name (NetWare printer name)
* Print server name
* Log in password

Problems in Macintosh

PRICOM is not recognized by chooser

CHECK1

Check both Zones configured for PRICOM and printer zones are consistent.

CHECK2

Make sure that ***Apple Talk*** in ***Chooser*** is ***Active***.

CHECK3

Click ***Control Panels***, then ***Apple Talk,*** then confirm if ***Ethernet*** is selected as Connect via..

The error message “Short of memory” appears while printing; or only Chinese characters are printed; or blank paper is ejected

SOLUTION

There may be a PC memory shortage problem. Close other inactive applications to increase working memory area.

Is there any operational differene on PRICOM depending on the Mac OS version?

The following are the operational difference comparison between Mac OS X and the earlier Mac OS.

-The maximum number of AdiminManager printer status displayed.
Mac OS X :1 windows.
Other Mac OS : up to 4 windows.

-The maximum number of AdminManager system status displayed.
Mac OS X : 1 windowd at max.
Other Mac OS : up to 8 windows.

-AdminManager Balloon help supported/non-supported
Mac OS X : Not supported.
Other Mac OS: Supported.

Other

Configuration can not be changed by PRICOM web page

CHECK

Select Internet option in your Web browser, then ***LAN setting***, then tick off ***Use a proxy server for your LAN.***

Appendix

Hardware Specification

Operating Environment

-Temperature: +10C to +55C

-Humidity : 20-80% RH (no dewing)

Storage Environment

-Temperature: -10C to +50C

-Humidity : 20-85% RH (no dewing)

EMI

-VCCI Class B

-FCC Class B

-EN55022 Class B

-EN55024

CPU

-32bit RISC CPU

Memory

-RAM :8MByte

-FlashROM :2MByte

Network Interface

-10BASE-T/100BASE-TX (auto-detection): 1 port

Printer Interface

-EIO interface port

-USB interface port

(The references to USB capability are applicable only for the H-260U product)

Others

-DIP switch : 4 switches

-LED : 3 LEDs, one for status (Orange), one for 10BaseLINK (Green), one for 100BaseLINK (Green).

Software Specification

Supported Protocols

<PRICOM H-260/H-260U>

*TCP/IP

Raw(9100) Port, LPD, FTP, IPP, HTTP, TELNET, DHCP, BOOTP, SNMP WINS, TCP, UDP, ARP, RARP, IP, ICMP, NetBIOS over TCP/IP, TPP(ThinPrint Protocol)

*NetBEUI

SMB, NetBIOS

*NetWare

IPX, SPX, SNMP, NDS(NetWare 4.x/5/6)

Remote printer mode (up to 8 servers)

Print server mode (up to 8 servers, 32 queue)

Frame automatic detection from IEEE 802.2, IEEE 802.3, Ethernet-II or SNAP frame type

AppleTalk

PAP, ATP, ZIP, RTMP, NBP, AEP, DDP, AARP, ELAP, AppleTalk phase2

IPv6 Function(Preliminary Release)

This document describes the usage and limitation of the IPv6 function of PRICOM H-260/H-260U.

TIP

-The IPv6 function is provided for technical preview purpose only.
Our customer support would not handle questions about IPv6.

What is IPv6?

IPv6 is the next generation of TCP/IP. Although TCP/IP protocol is widely used with the Internet, the current IPv4 version has limitation of its relatively
small address space of 32bit. IPv6 provides incredibly large address space of 128bit, and it also has many improved features than IPv4.

TIP

-In order to use IPv6 functionality of PRICOM H-260/H-260U, the other component of the network (Router, Client PC, etc) has to be already IPv6 enabled.

Outline for IPv6 function

Product release

PRICOM H-260/H-260U supports following functionality over IPv6;

* Configuration over TELNET and HTTP.
* Printing over FTP and LPR.
* Connection check with ping6.
* Route tracing with traceroute6.

IPv6 address

The link-local address of PRICOM H-260/H-260U will be as follows;

FE80:0:0:0:0:0280:92FF:FExx:yyzz

(xxyyzz is the lower 3-digit of the Ethernet address in hexadecimal format)

NOTE

-The IPv6 address could be automatically configured if there is an IPv6-enabled router with stateless-auto configuration server capability on the network.

TIP

Limitation

-PRICOM H-260/H-260U supports link-local and stateless-auto configuration for IPv6 address configuration.
Thus, the manual-configuration and statefull-auto configuration (DHCPv6) are not supported.
-IPsec features (Both AH(Authentication Header) and ESP(Encapsulating Security Payload)) are not supported.
-The traffic-class and flow-label in the IPv6 header is fixed to 0.
-Jumbo-Payload is not supported.
-PRICOM H-260/H-260U supports send/receive fragmentation. However the maximum payload size in a single packet is limited up to 3072, including the header length.
-SNMP IPv6 MIB is not supported.
-The utilities shipped with PRICOM H-260/H-260U are not IPv6 enabled.
-When printing with IPv6, the IP address in the banner page is printed as 0.0.0.0.

How to use

Enabling the IPv6 functionality of PRICOM H-260/H-260U

The IPv6 functionality is disabled as factory default.
In order to enable it, follow the instruction below;

(1) Assign IPv4 address in usual way
(Refer to the setup guide for more details)
(2) Access to the configuration of PRICOM H-260/H-260U with TELNET.

TIP

-You can not configure IPv6 functionality with the utilities shipped with PRICOM H-260/H-260U. Please use Web browser or TELNET to do that.

(3) Set IPv6 item as Enabled in the TCP/IP Configuration menu.
(4) Save the configuration, then restart PRICOM H-260/H-260U.

The IPv6 functionality will be enabled after PRICOM H-260/H-260U is restarted.

Enabling the IPv6 functionality of the PC

Following instructions are how to enable IPv6 functionality of the Microsoft Windows XP. Please refer to the manual for other operating systems.

(1) Enabling IPv6 functionality

Run the "ipv6.exe" from the command prompt. In order to open the command prompt window, run the "cmd" command from "Run..." menu in the start menu.

(Example)

C:/> ipv6 install

NOTE

-Please refer to the Microsoft Website to know more about "ipv6.exe"

(2) Register the IPv6 address and the hostname into the hosts file

When you specify the target address, you can use the hostname rather than the IPv6 address if you registered them into the hosts file.

On the Windows XP, the host file is stored at;

Folder: C:/windows/system32/drivers/etc

(Assuming the system drive is C:)

File : hosts

Add the address/hostname information with using notepad or other text editing software.

NOTE

(Example of Hosts file)

```
# Copyright (c) 1993-1999 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# Additionally, comments (such as these) may be inserted on indivisual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#      102.54.94.97     rhino.acme.com      # source server
#       38.25.63.10     x.acme.com          # x client host

127.0.0.1               localhost
fe80::280:92ff:fe12:3456   pricom h-260U
IP address              hostname
```

TIP

-If you use IPv6 function on Windows XP by adding link-local address to the hosts file, you need to specify the default interface by IPv6 rtu command. If you have multi-interface, you can not use this function.

* For further operational information on "ipv6.exe", please refer to the Microsoft Corporation website.

(3) How to use PRICOM H-260/H-260U on the Windows XP

Once the Windows XP becomes IPv6 enabled and the hostname/address was configured in hosts file, you can do...

-Configuration / status display with Internet Explorer 6.0

-Printing from "Print services for Unix" port.

-File-printing with LPR or FTP from the command prompt.

-Connection check with ping6.

TIP

-The "standard TCP/IP port" printing and "IPP" printing of current versions of Windows XP are not IPv6 enabled.
In order to printing over IPv6, you have to install "Print services for Unix" component from the control panel.
Please refer to the Section.4 "Printing LPR port on the Windows XP" of the users manual of PRICOM H-260/H-260U.

-When use with Internet Explorer 6.0 or Unix print services, you have to specify the address as hostname rather than IPv6 address.
(fe80::280:92feff:xx:yyzz)

ThinPrint Product .print Client Support

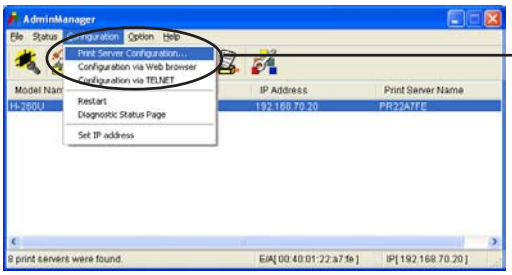
This product supports the ".print Client" function of ".print" which is the network load distributed printing technology of ThinPrint. This product can be registered into the ".print Server Engine" of ThinPrint as a printing printer. The print data in the zone restriction carried out by the ".print Server Engine", and compressed print data can be received directly and then be output to a printer.

TIP - This product does not support the "Driver Free Printing" function.

This function can setup by using AdminManager, a web browser, or TELNET. The following procedure explains how to configure this product using AdminManager.

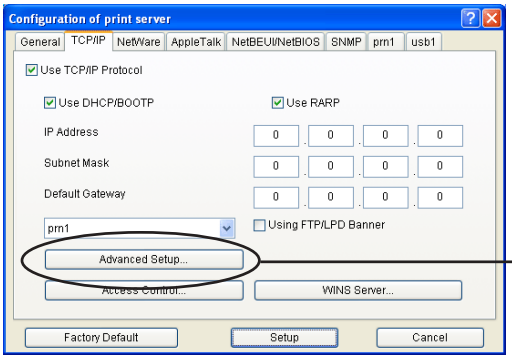
1. Start AdminManager and select this product from a list.

2.



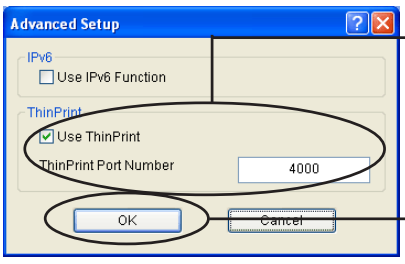
Print Server Configuration is chosen from the **Configuration** menu.

3.



Click **Advanced Setup** on the **TCP/IP** tab.

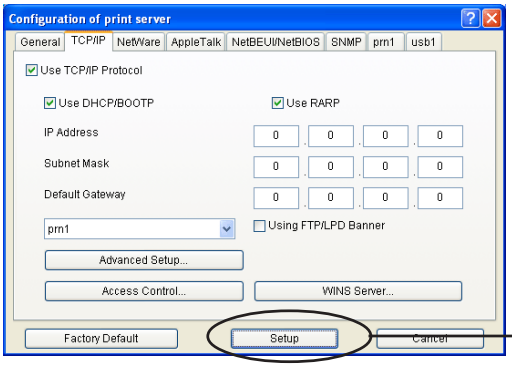
4.



Check **Use ThinPrint**, and specify a **ThinPrint port number**.

Click **OK.**

5.



Click **Setup.**

6. The configuration information becomes effective after rebooting the product.
By specifying this product to be the printing output place of a .print Server Engine, this product can be used in the .print environment.