



User Guide

TL-PS110P

Single Parallel Port Fast Ethernet Print Server



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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

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FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

National Restrictions

2400.0-2483.5 MHz

Country	Restriction	Reason/remark
Bulgaria		General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy		If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation		Only for indoor applications

Note: It not used outdoors in France.

All contents and specifications are subject to change without notice.

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Chapter 1. Introduction

1.1 Product Overview

The external print servers enhance capability by letting you place your printers at convenient locations directly on the Ethernet network, and by increasing network printer performance and management. Please note that the print server does not support printing with host-based printers, e.g. CAPT, GDI, PPA.

1.2 Components and Features

Dongle-sized Wireless Print Server

- 1 Parallel port
- Fast Ethernet network port: RJ-45 for 10Base-T or 100Base-TX
- 1 Setup CD contains driver and manual for Windows system
- One external AC power adapter
- Built-in Reset Button
- One Quick Installation Guide

1.3 LED Indicators

LED	Status	Indication
Status	Blinking (Orange)	When power switched on, the Status indicator will flash five times, and then on.
100Mbps	On (Green)	LAN Port has a valid network connection at 100Mbps.
10Mbps	On (Orange)	LAN Port has a valid network connection at 10Mbps.

Note:

The **Status** LED should be flash **five** times when POST. If not, please contact your local dealer for repair or replacement.

1.4 Factory Defaults

- Username: admin
- IP Address: 192.168.0.10
- Subnet Mask: 255.255.255.0

Note:

The TL-PS110P is produced without password by default.

Chapter 2. Hardware Installation

2.1 Preparation

Before you start, you should prepare the following items:

- One printer with a Parallel port
- One printer cable
- One Router

2.2 Connection

Follow the instructions below to connect the print server. Figure 2-1 is a typical typology for the print server.

- Power off the printer.
- Connect the print server to your printer with printer cable.
- Connect the print server to your Router with an Ethernet cable.
- Power on the printer.
- Power on print server.
- Wait 40 seconds as part of the print server's Power On Self Test (POST).

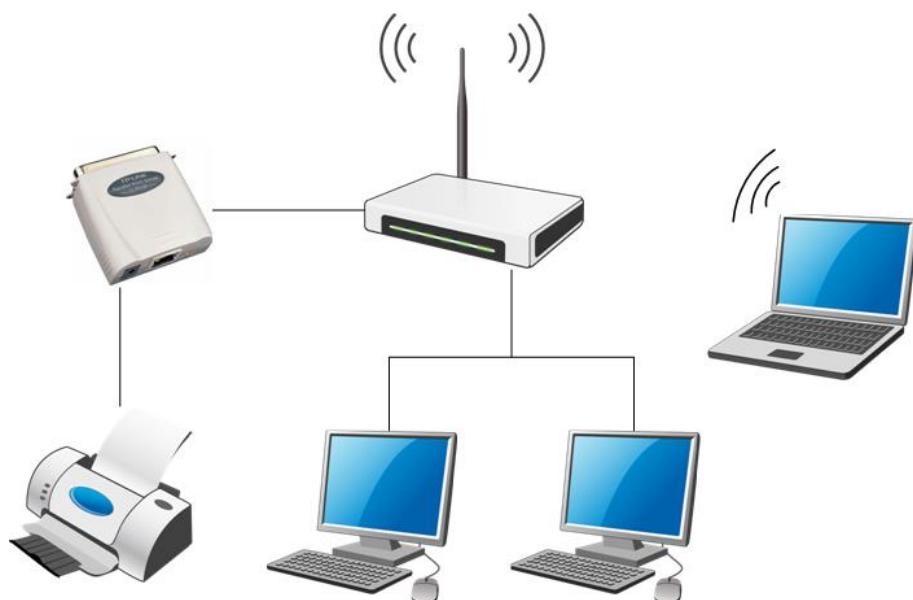


Figure 2-1

Chapter 3. How to Configure the Print Server

3.1 Using PSWizard in Windows XP/ Windows Vista/ Windows 7

To connect to the print server using PSWizard, the configuration for Windows XP, Windows Vista and Windows 7 are similar. Here take Windows XP for example.

1. Insert the setup CD into your CD-drive. The autorun program will be started as shown in Figure 3-1. Select the model (**TL-PS110P**) of your print sever.



Figure 3-1

2. Choose Setup Wizard.



Figure 3-2

Note:

For setup wizard under Windows Vista, you have to choose the **Run as administrator** by right-click the icon on desktop.

3. Then you will enter to the “**Welcome**” page as shown in Figure 3-3. Click **Next**.



Figure 3-3

4. From the “**Select A Print Server**” screen as shown in Figure 3-4, select the print server that you want to configure and click **Next**.

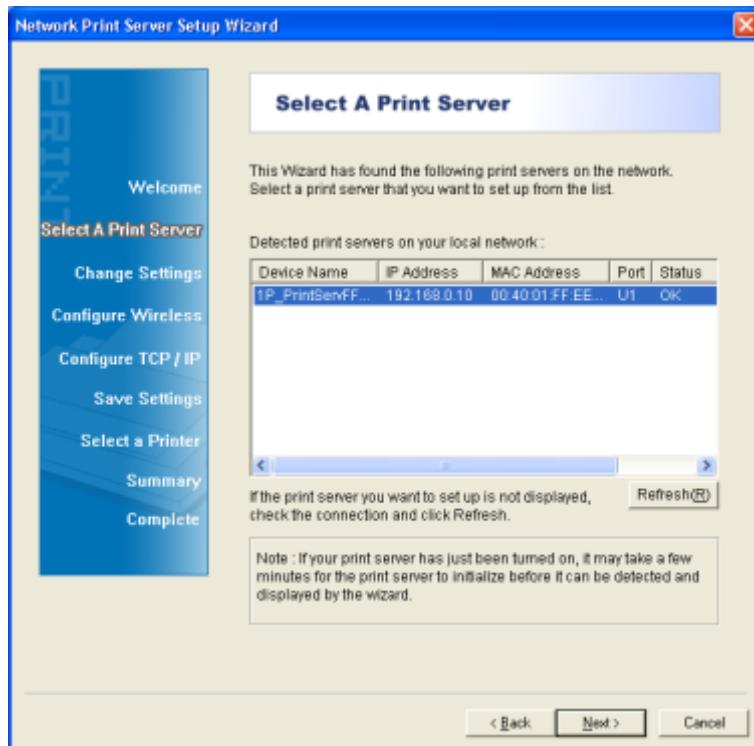


Figure 3-4

5. On the **Change Settings** screen as shown in Figure 3-5, select **Yes** or **No**.
 - Select “**Yes**” if you want to change the settings. The TL-PS110P is produced with no password. Click **Next** and then appears “**TCP/IP Settings**” screen as shown in Figure 3-6. Proceed with Step 7.
 - Select “**No**” if you don’t need to change any settings. Click **Next** and then appears Figure 3-9. Skip to Step 23.

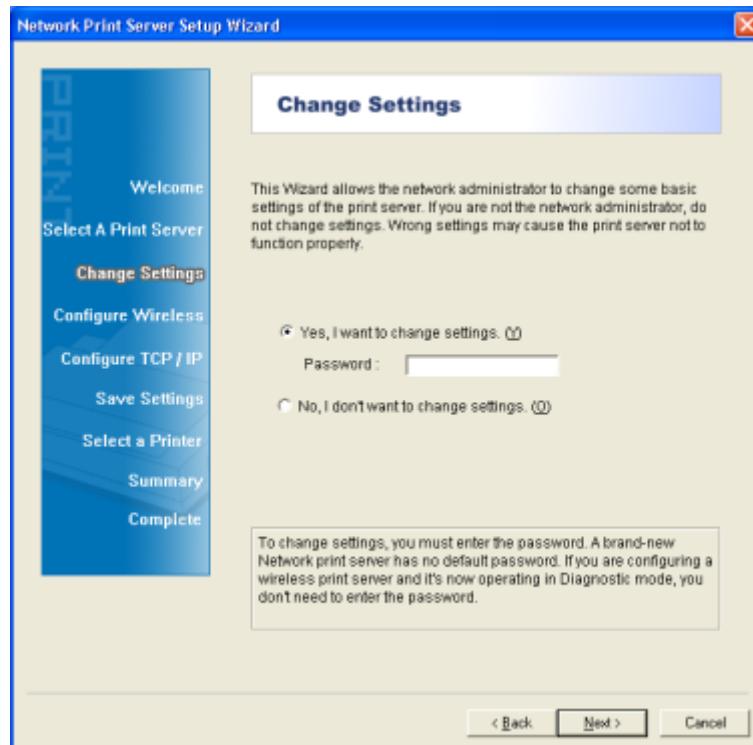


Figure 3-5

6. On “**TCP/IP Settings**” page shown in Figure 3-6, check the “**Specify an IP address**” radio button, and then fill in the following parameters.
 - **IP Address:** Specify an IP address for your print server. The IP address must be within the same subnet as your Router. For example, if the LAN IP address of your Router is **192.168.1.1**, the IP address should be set to **192.168.1.X** ($1 < X < 255$). **192.168.1.10** is suggested.
 - **Mask IP Address:** Enter the subnet mask of your network.
 - **Gateway IP Address:** Enter the LAN IP address of your Router. Here takes **192.168.1.1** for example.

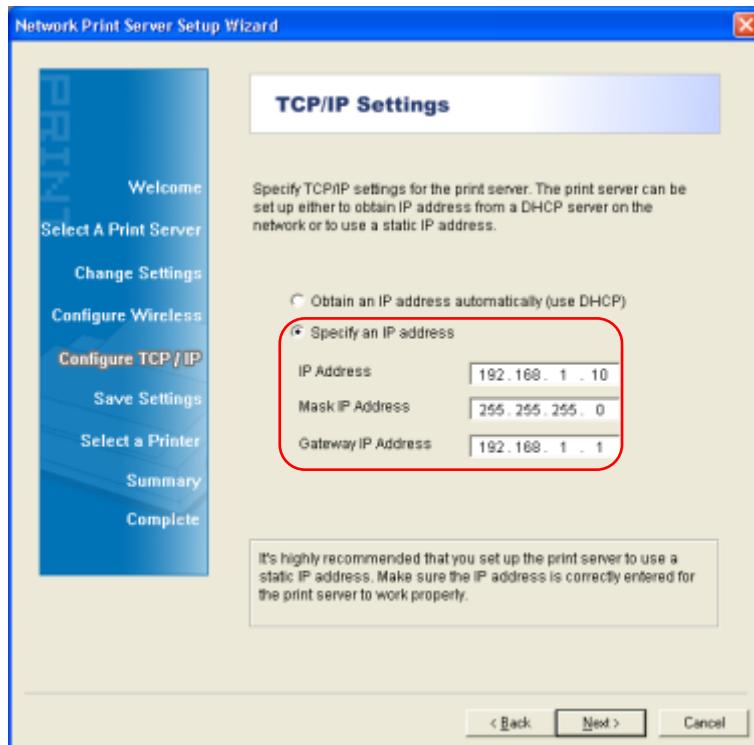


Figure 3-6

7. Confirm your settings on the screen in Figure 3-7. Click **Next** and your changes will be saved as shown in Figure 3-8.

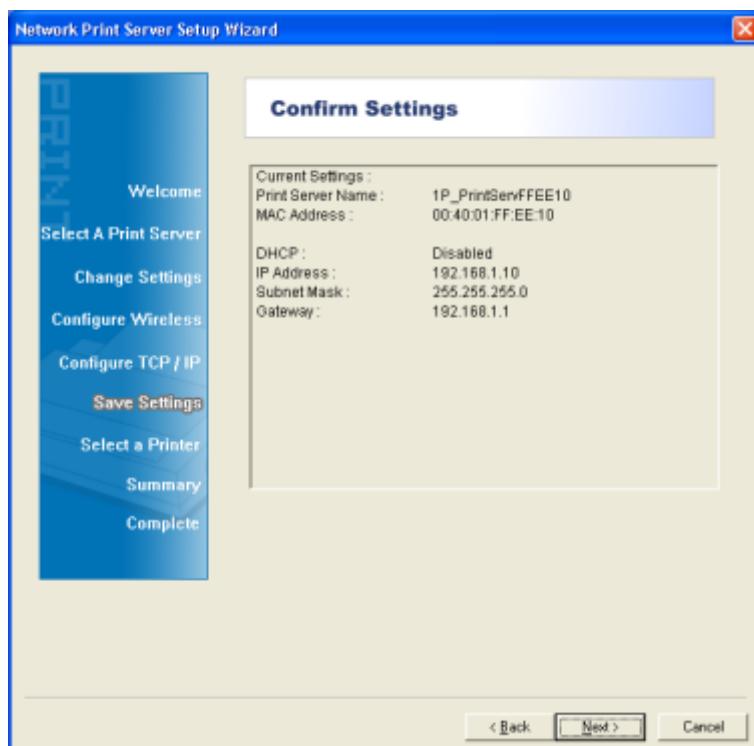


Figure 3-7

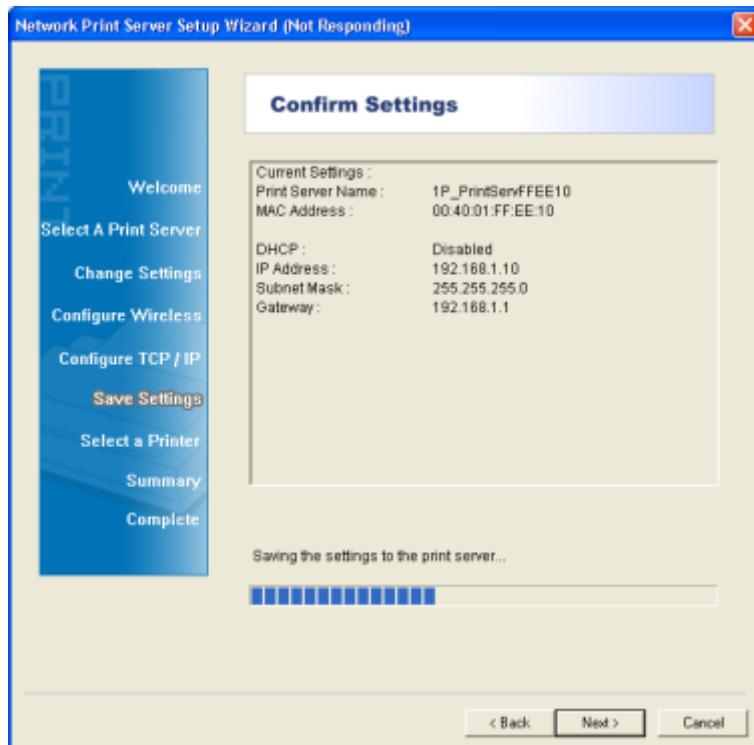


Figure 3-8

8. After that the “**Select a Printer**” page will appear, as shown in Figure 3-9.
 - If the printer desired has already existed in the list, select it and then click **Next** and skip to Step 16 to complete the installation.
 - If you never use a printer on your computer before but also want to share printing, click **Add New Printer** button in Figure 3-9 and then Figure 3-11 appears. Follow the steps below to install the printer driver.

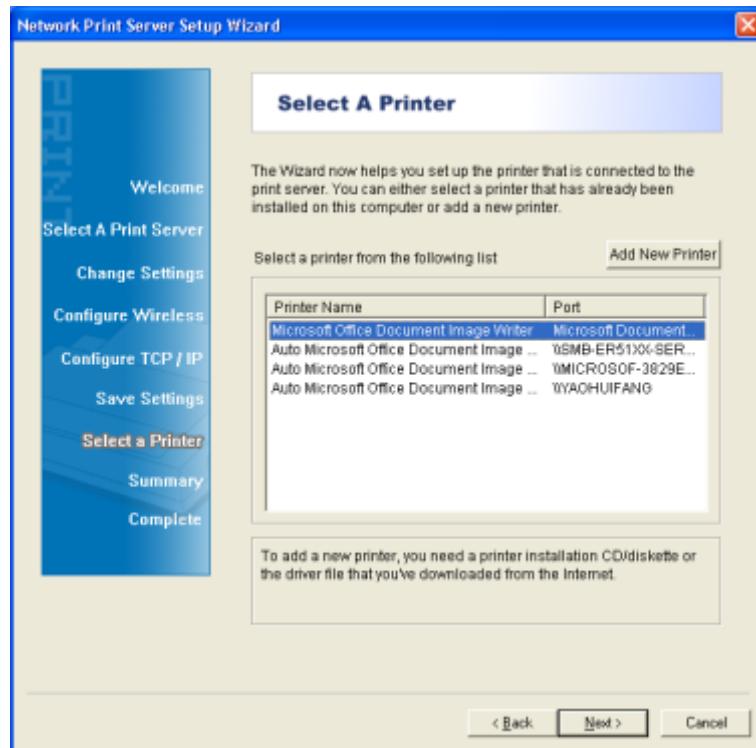


Figure 3-9

Note:

To add a new printer, you can also go **Start > Printers and Faxes**, and then click “**Add a printer**” on the left to begin the following installation as shown in Figure 3-10.

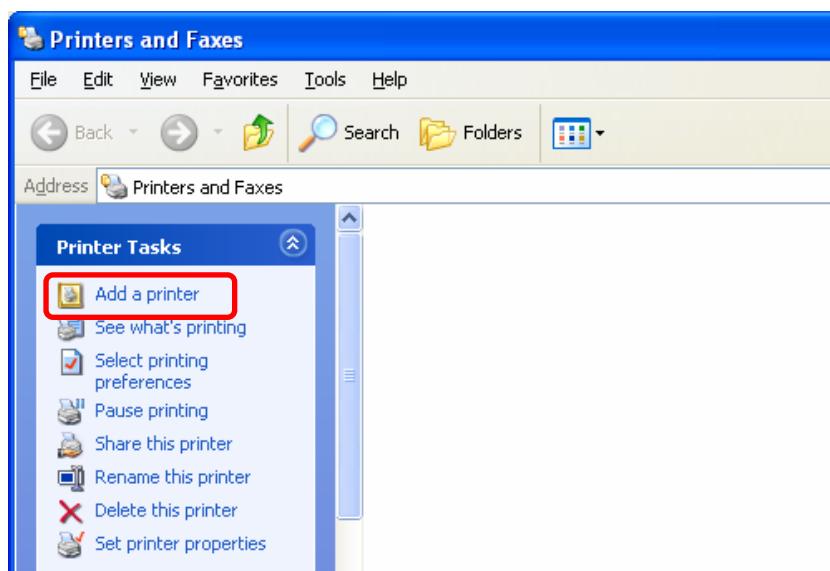


Figure 3-10

9. Click **Add New Printer** to launch **Windows Add Printer Wizard**. Click **Next**.



Figure 3-11

10. Make sure the **Automatically detect and install my Plug and Play printer** check box is **NOT** checked. Then click **Next**.



Figure 3-12

11. Check **"Use the following port"** radio button and select **"LPT1: (Recommended Printer Port)"** from the pull-down list. Then click **Next**.

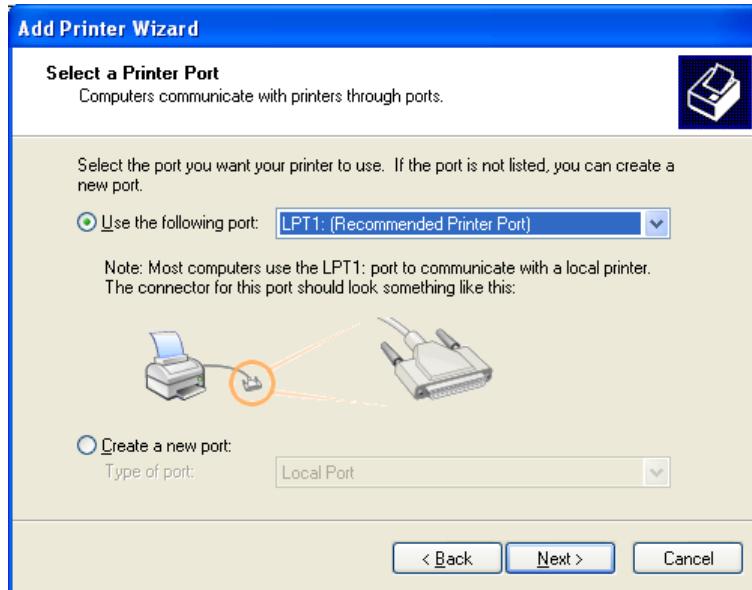


Figure 3-13

12. Select **Manufacturer** and **Printer** from the lists of printer's driver. Then click **Next**.

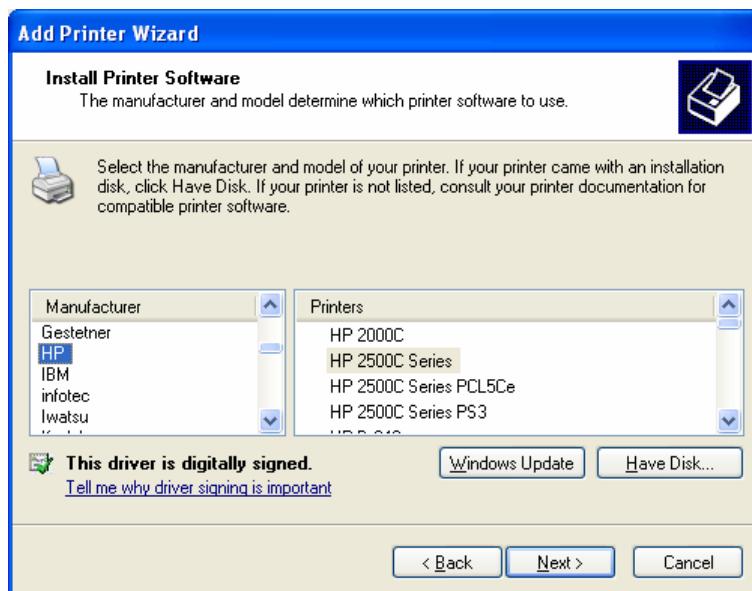


Figure 3-14

13. If you already have the printer's driver installed, you will be asked whether to keep it or to replace it. Click **Next**. Supply a name for the printer and choose whether you want to make it your default printer. Then click **Next**.

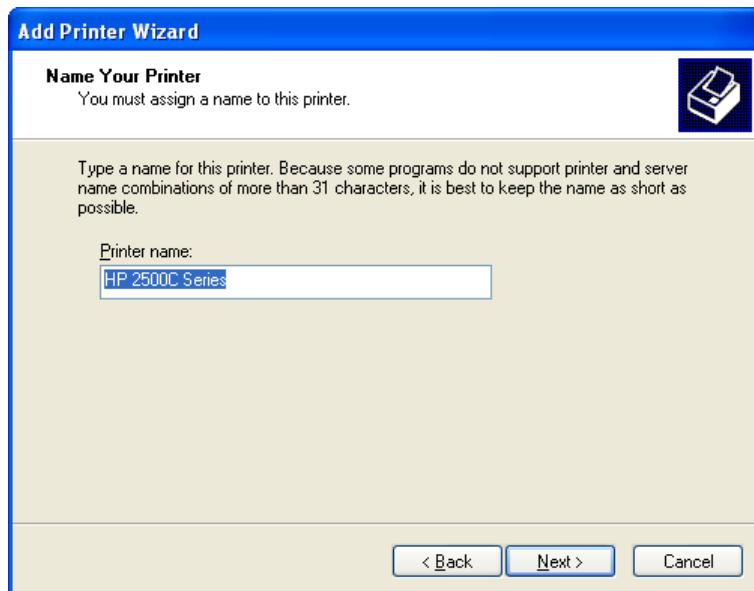


Figure 3-15

14. Then, choose whether you want to share the printer with other network users, print a test page (please select **No.**), etc. Select the appropriate radio-button and click **Next**.



Figure 3-16

15. Click **Finish**.

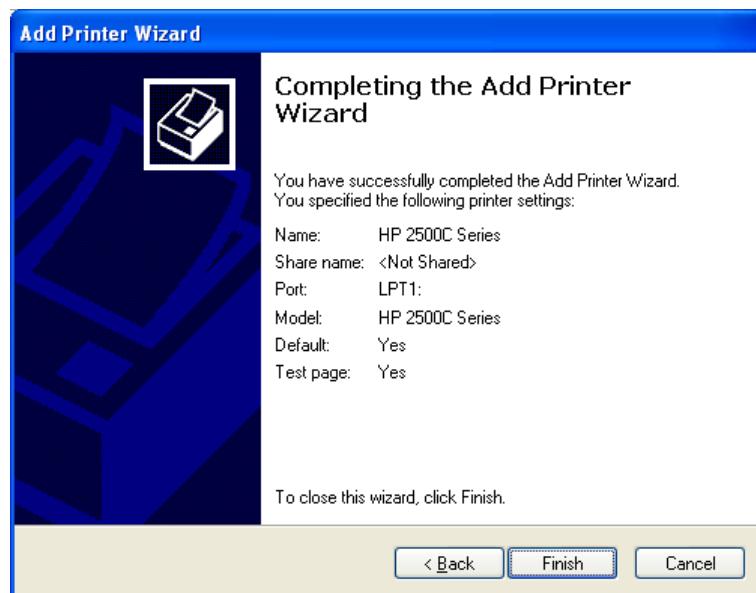


Figure 3-17

16. Then you will see the printer be added to the list. Select the printer and click **Next**. Follow the step by step instruction to finish the installation.

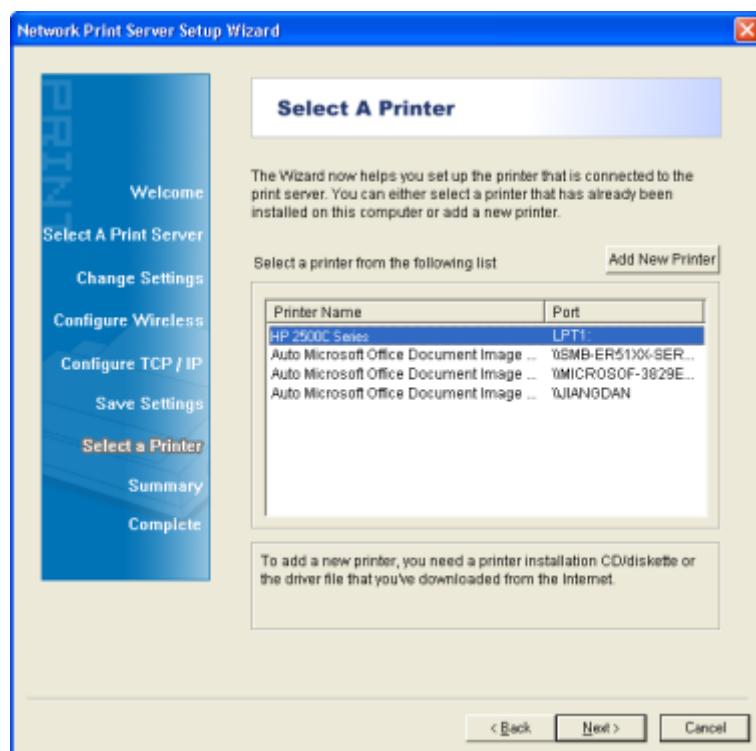


Figure 3-18

17. From Windows system, go to **Start > Printers and Faxes** and highlight your newly installed printer. Right-click it, and then select **Properties**.

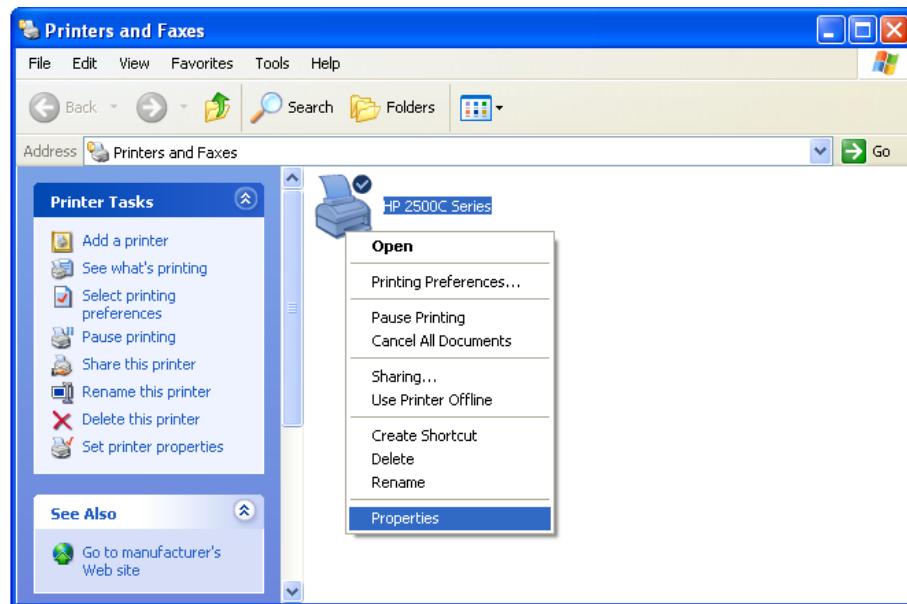


Figure 3-19

18. Select **Ports** and verify that the print server's port appears.

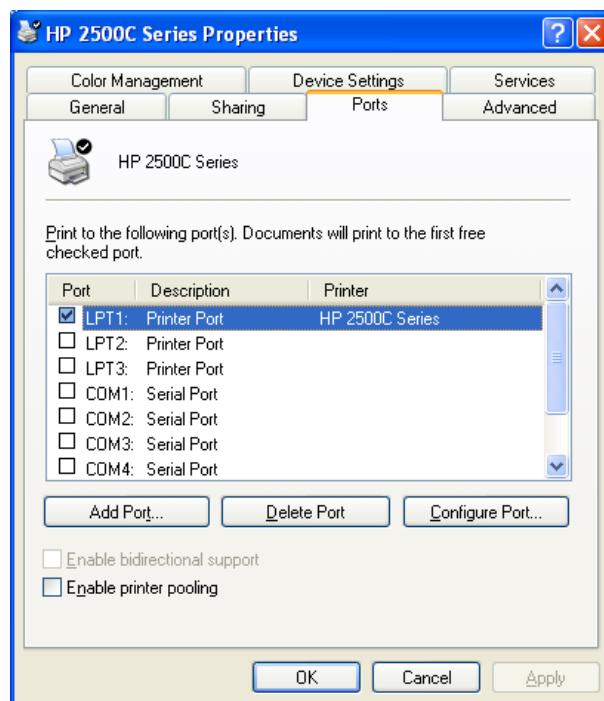


Figure 3-20

19. Go to **General**; click **Print Test Page** to verify the configuration.

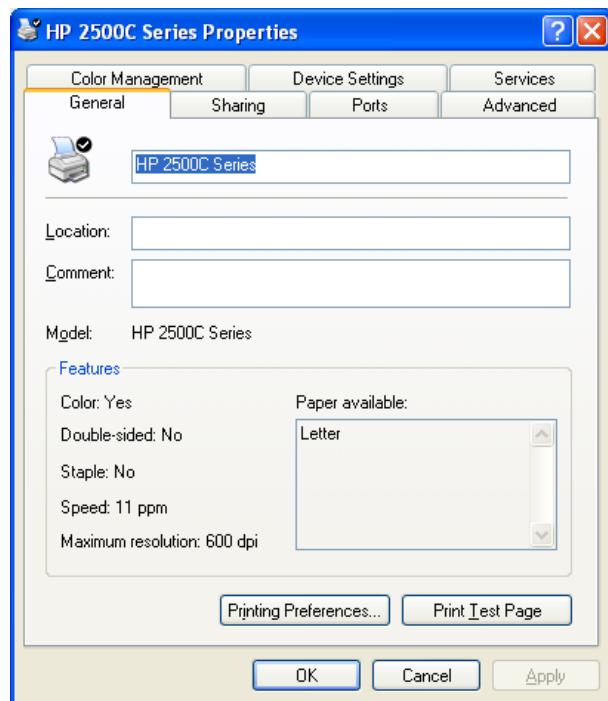


Figure 3-21

Note:

If you wish to install more print servers, repeat the above steps.

3.2 Using Web Management Page in Windows XP/ Windows Vista/ Windows 7

To connect to the print server using the web management page, the configuration for Windows XP, Windows Vista and Windows 7 are similar. Here take Windows XP for example.

1. On the Windows taskbar, click the **Start->Control Panel**.

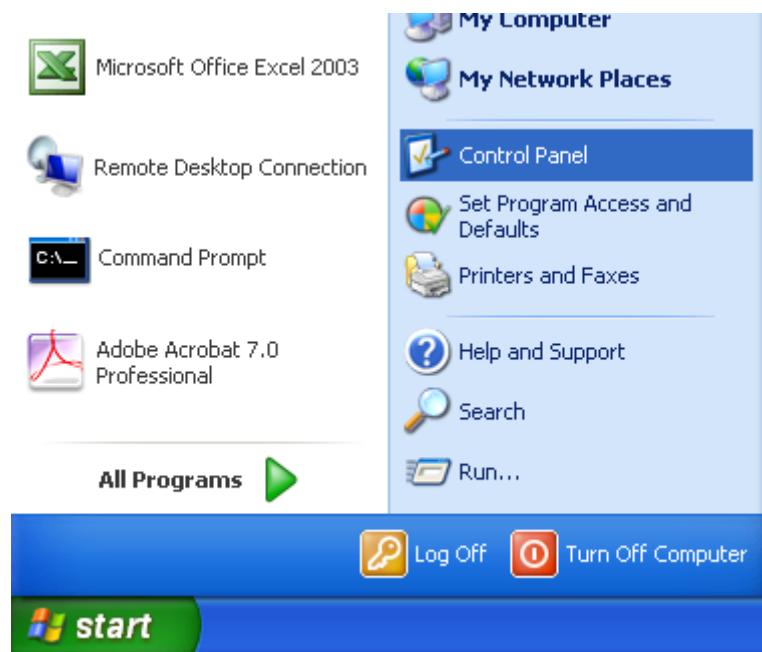


Figure 3-22

2. Select and double-click **Networking Connections**.



Figure 3-23

3. Right click **Wireless Network Connection**, and select **Properties**.



Figure 3-24

4. Select **Internet Protocol (TCP/IP)**, and then double click it or click **Properties**.

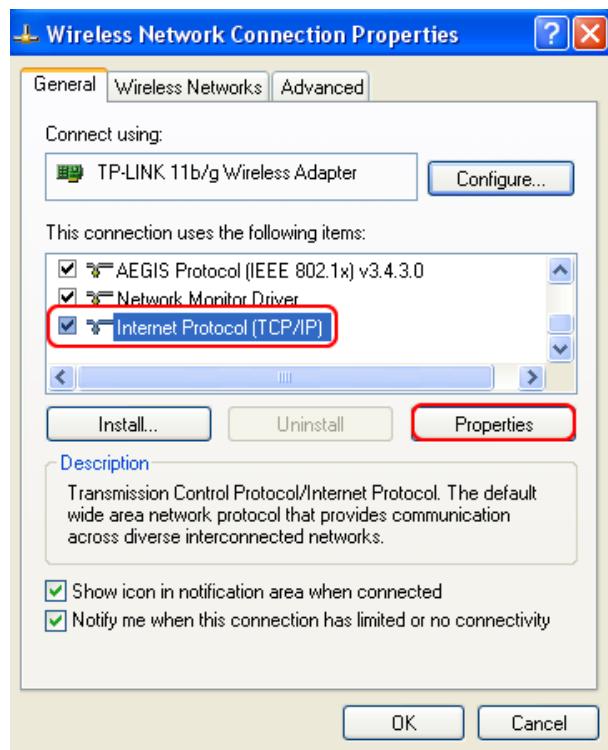


Figure 3-25

5. Select “Use the following IP address” and input a static IP address **192.168.0.X** (1<X<10 or 10<X<255, for 192.168.0.10 is the default IP address of the print server), Subnet mask **255.255.255.0**. Click **OK**.

Note:

The IP address must be within the same subnet as your wireless print server. For example, if the IP address of your printer server has been changed to **192.168.1.10**, then the IP address should be configured as **192.168.1.X** (1<X<10 or 10<X<255).

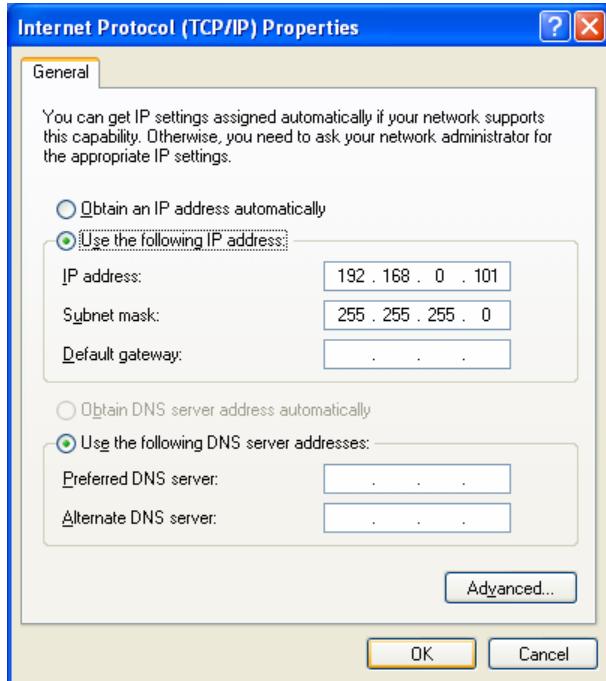


Figure 3-26

6. Open a web-browser and type in the IP address of the print server (the default is 192.168.0.10) in the address field of the browser to login to the web management of the print server.



Figure 3-27

7. After a moment, a login window will appear, similar to the Figure 3-28. Enter **admin** in lower case letters for the User Name. Then click the **OK** button or press the **Enter** key.



Figure 3-28

8. Then the print server web management page will appear, with which you can configure all print server settings.

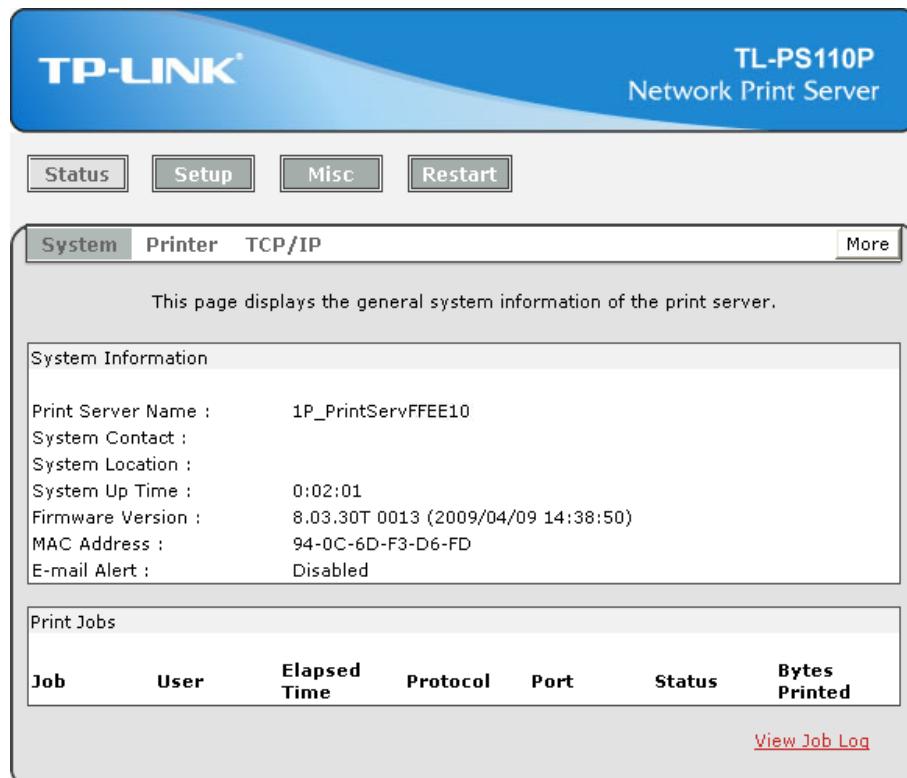


Figure 3-29

9. Click “**Setup**” and then choose “**TCP/IP**”. Check “**Use the following TCP/IP Settings**” radio button and then fill in the following parameters.

- **IP Address:** Specify an IP address for your print server. The IP address must be within the same subnet as your Router. For example, if the LAN IP address of your Router is **192.168.1.1**, the IP address should be set to **192.168.1.X** ($1 < X < 255$). **192.168.1.10** is suggested.
- **Subnet Mask:** Enter the subnet mask of your network.
- **Default Router:** Enter the LAN IP address of your wireless router or access point. Here takes **192.168.1.1** for example.

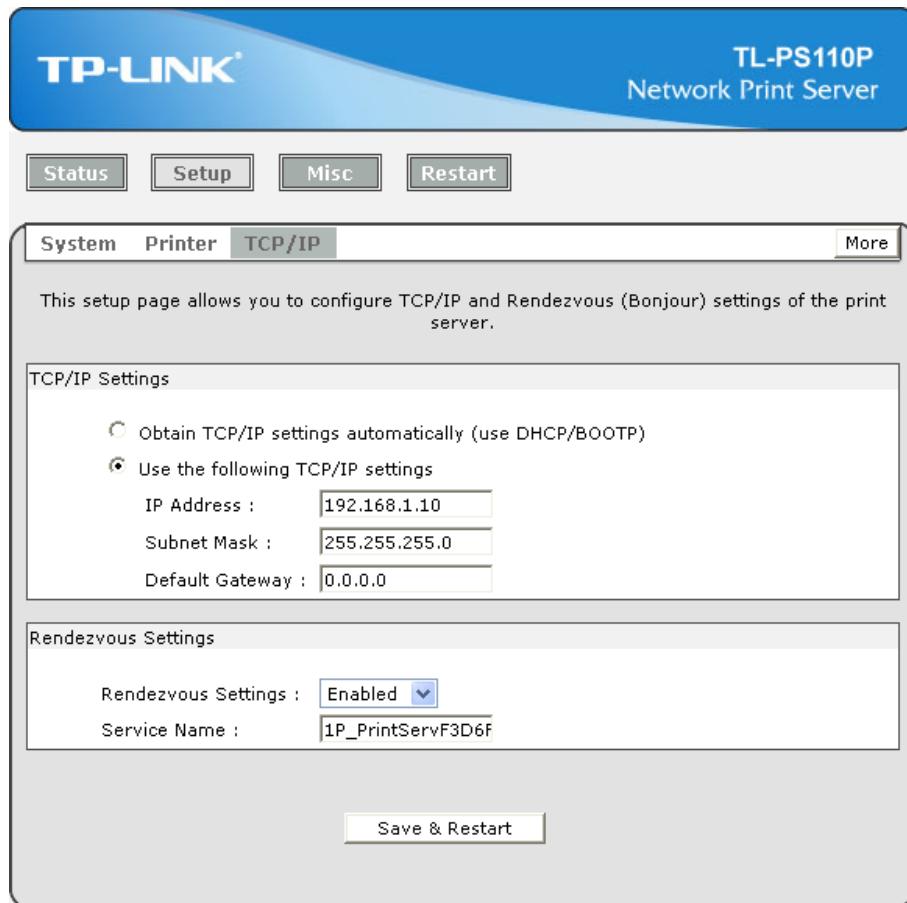


Figure 3-30

10. Click **Save & Restart** and then wait the print server to save the changes and restart.

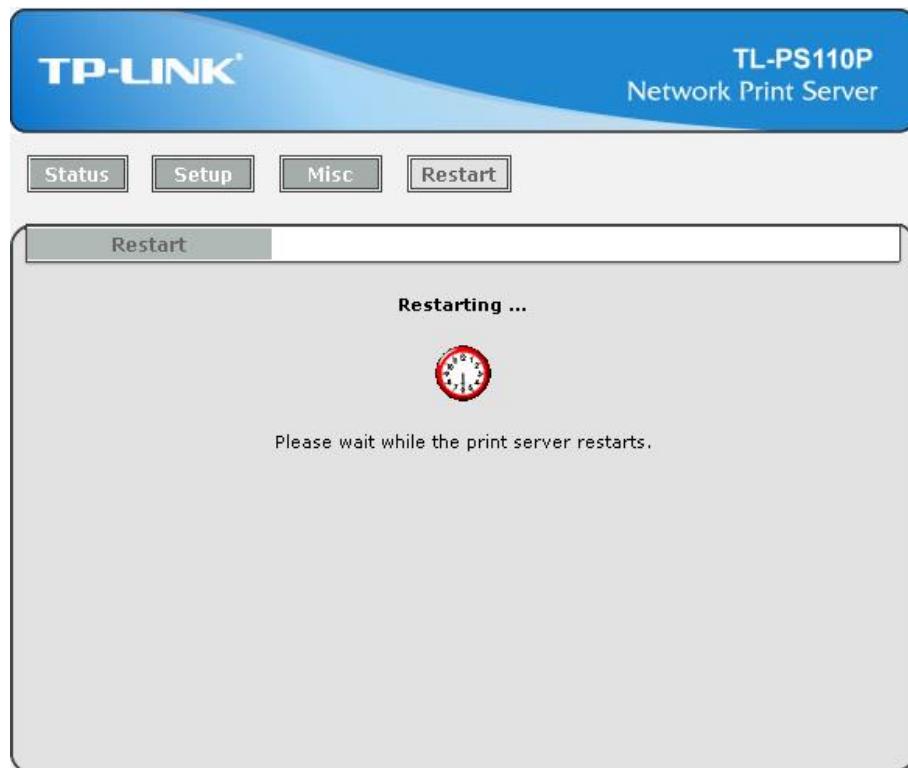


Figure 3-31

11. Enter the “**Internet Protocol (TCP/IP) Properties**” page as shown in Figure 3-32. Fill in the following parameters.

- **IP Address:** Specify an IP address for your adapter. The IP address must be within the same subnet as your Router. For example, if the LAN IP address of your Router is **192.168.1.1**, the IP address should be set to **192.168.1.X** (1<X<10 or 10<X<255, for 192.168.1.10 has been specified for your print server). Here we take 192.168.1.101 for example.
- **Subnet Mask:** Enter the subnet mask of your network.
- **Default Gateway:** Enter the LAN IP address of your wireless router or access point. Here takes 192.168.1.1 for example.

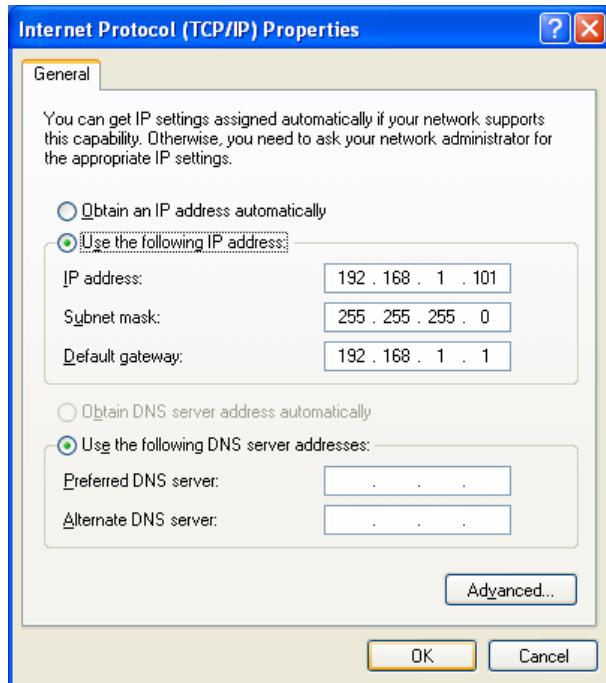


Figure 3-32

12. Add a Standard TCP/IP port for the printer.
 - If you've already installed the printer on your computer, please refer to [3.4.1 If You Have Installed A Printer Before](#) to add a Standard TCP/IP port.
 - If you never install a printer on your computer, please refer to [3.4.2 If You Never Install A Printer Before](#) to add a Standard TCP/IP port.

3.3 Using Web Management Page on MAC OS

1. Click the **Apple Icon** on the left side of the top-bar, and then choose **System Preferences**.



Figure 3-33

2. On the new window, please choose **Network**.

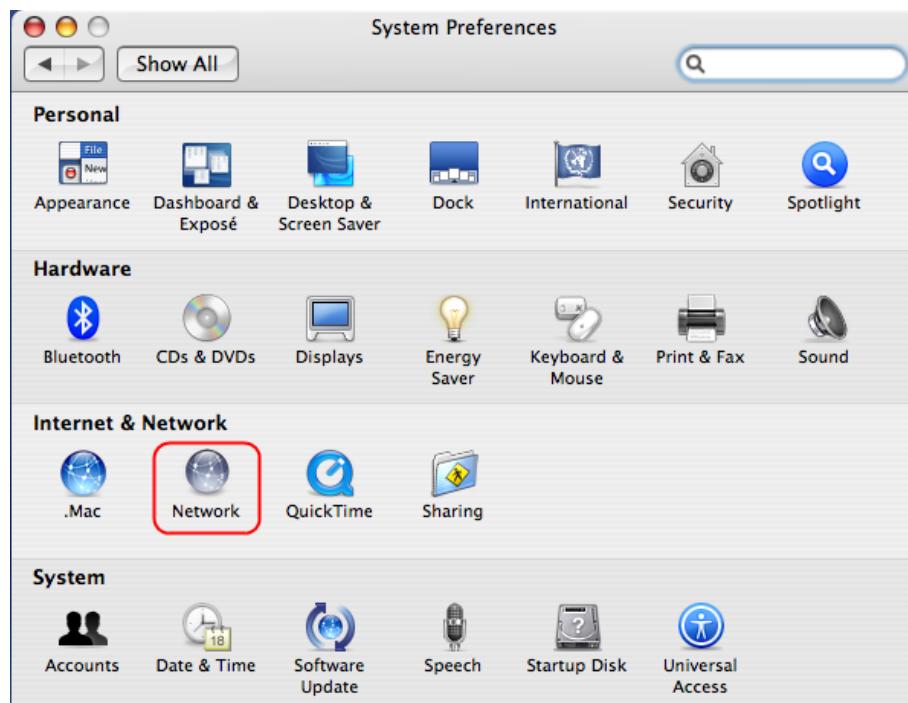


Figure 3-34

- Follow the steps to set the airport's IP address.

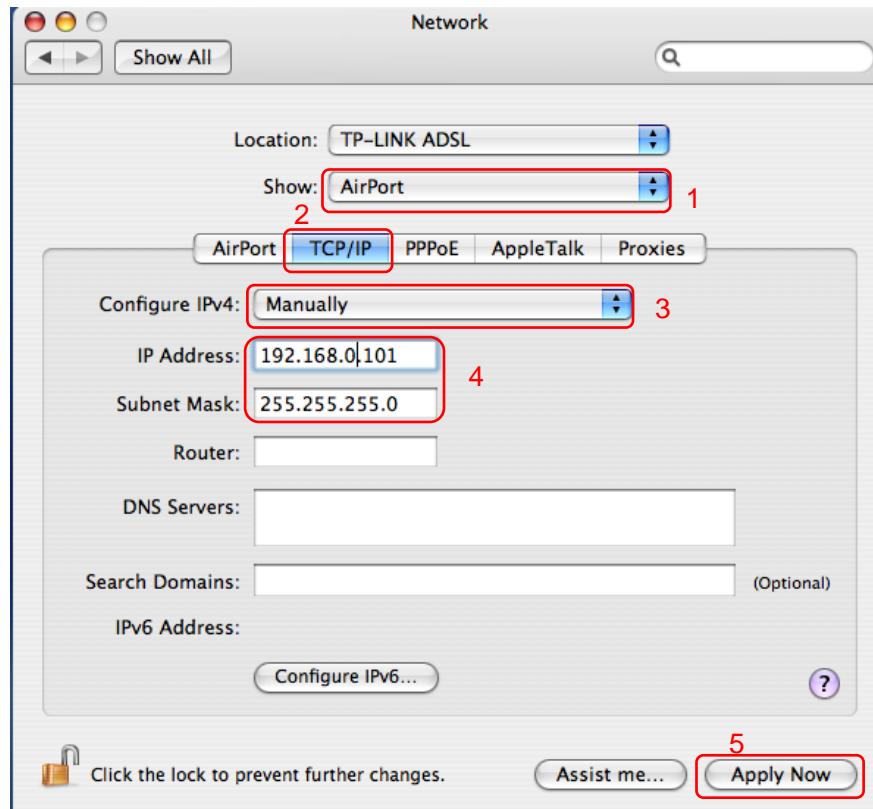


Figure 3-35

- Open the Safari and log into the TL-PS110P. Change its IP Address, Subnet Mask and Default Router to **192.168.1.10**, **255.255.255.0** and **192.168.1.1**. After the configuration, click

Save & Restart.

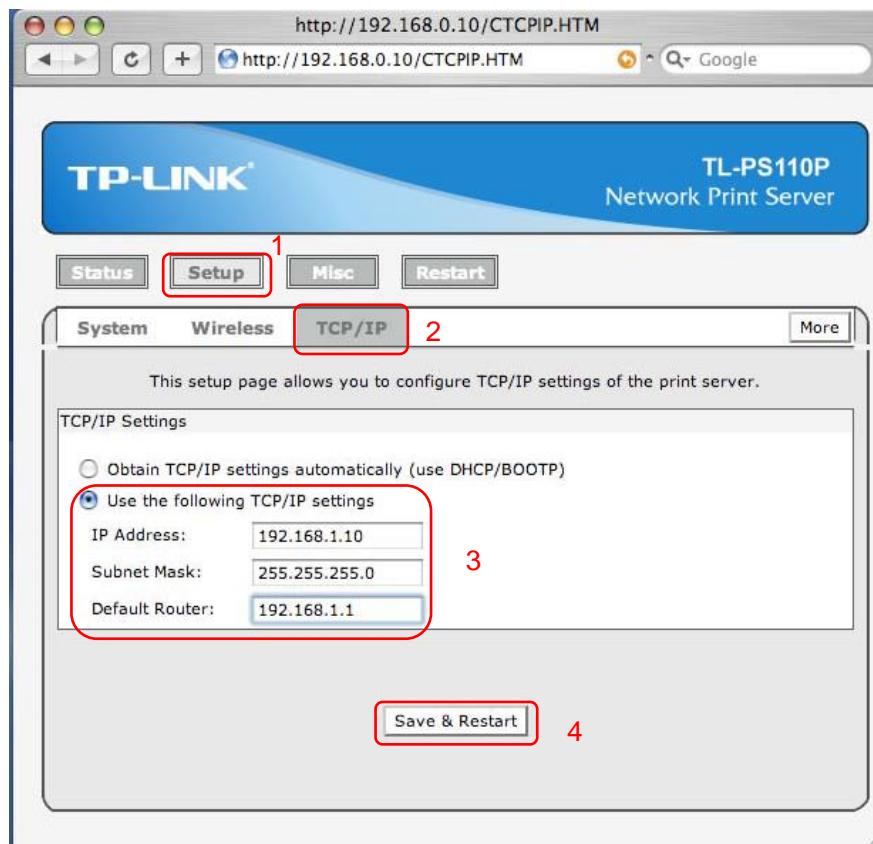


Figure 3-36

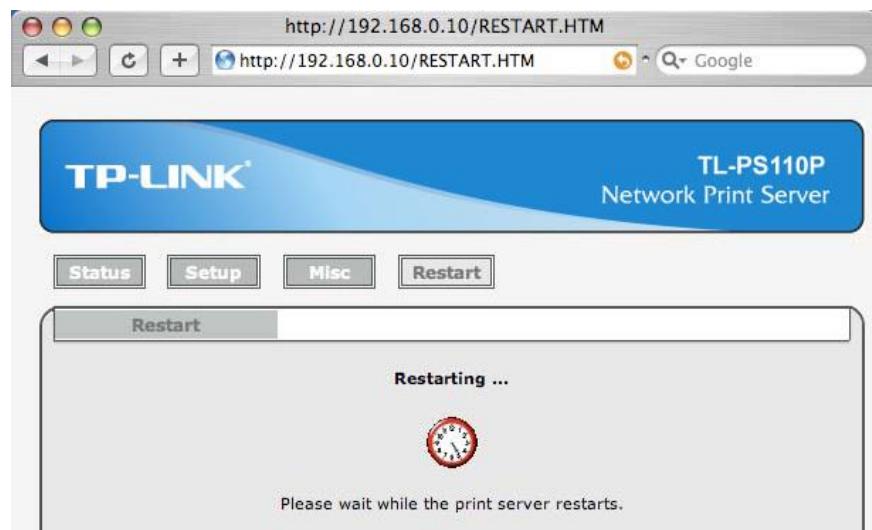


Figure 3-37

5. On the MACbook, change the airport's IP Address, Subnet Mask and Router to **192.168.1.101**, **255.255.255.0** and **192.168.1.1**.

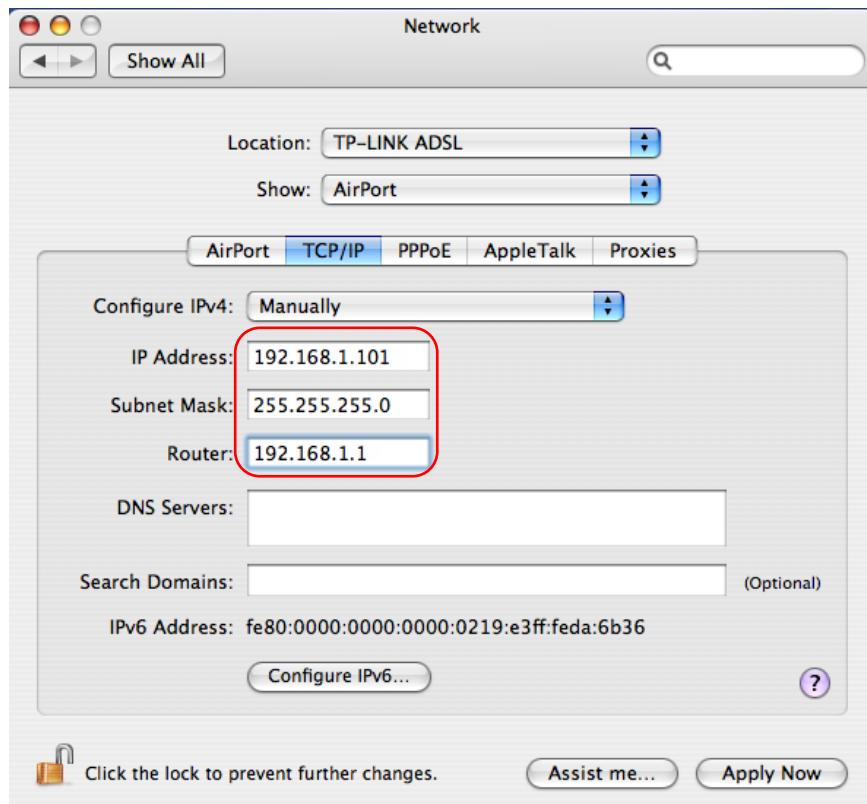


Figure 3-38

6. Click the Apple icon > System Preferences > Print & Fax to add a Standard TCP/IP port for the printer.

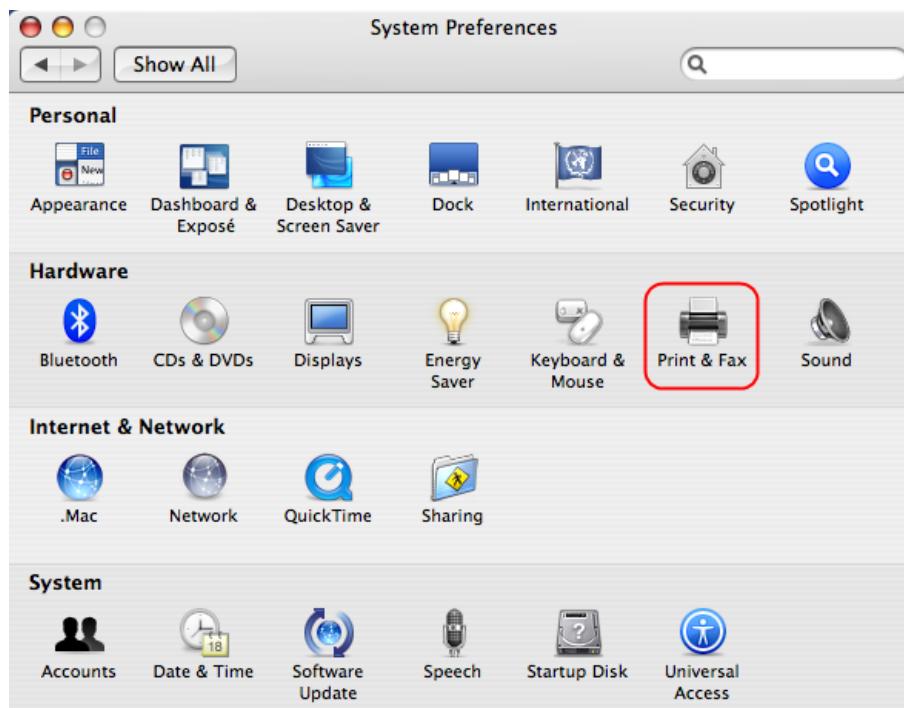


Figure 3-39

7. Click **Printing** and then .

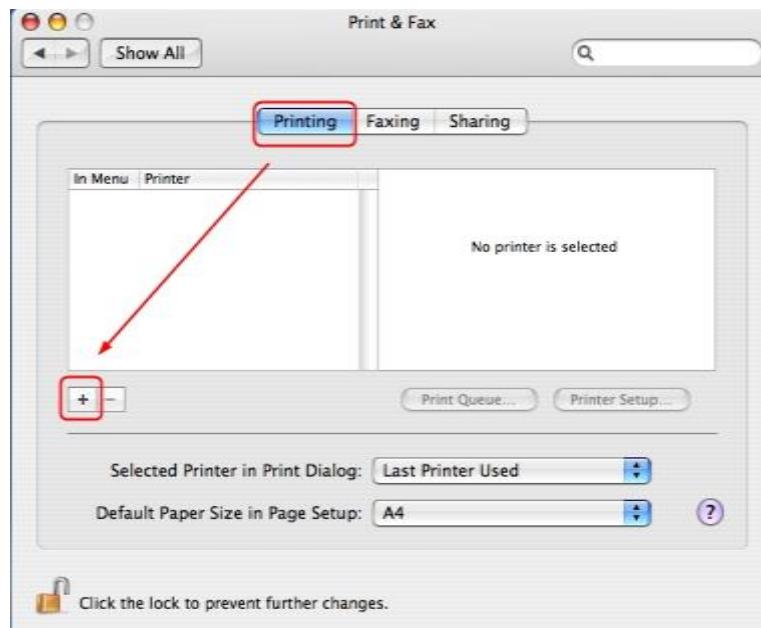


Figure 3-40

8. Select “IP Printer”, and then configure the following parameters. Select “LPD” for Protocol, enter **192.168.1.10** for Address and **lp1** for Queue. Select your printer model from the list. Here takes EPSON Style Photo 720 for example. And then click **Add**.

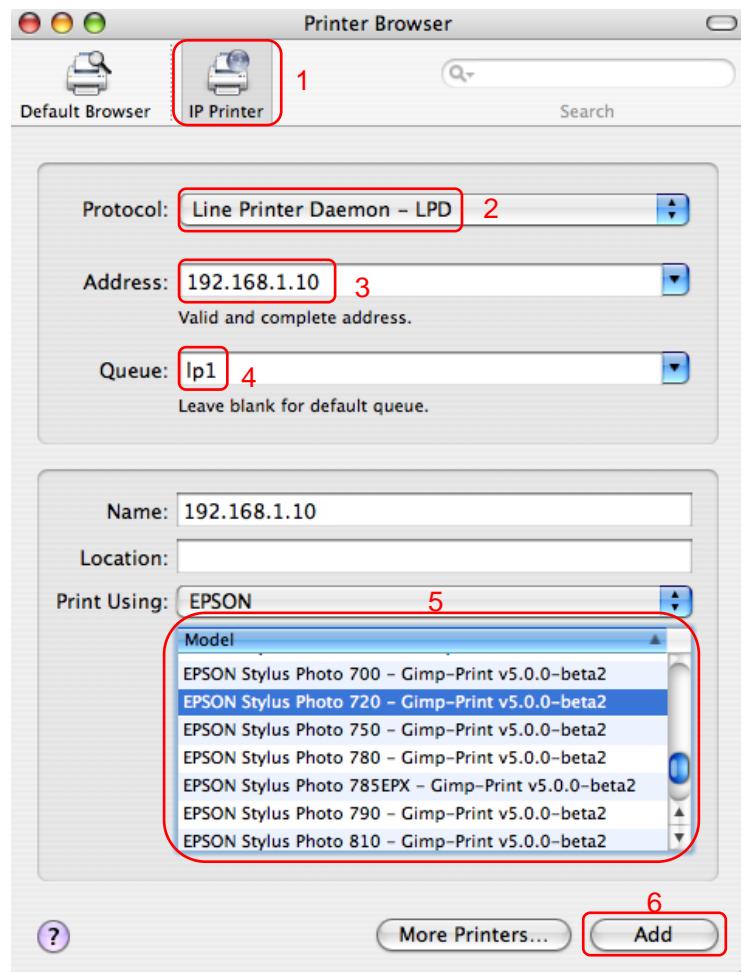


Figure 3-41

9. Till now you've installed the print server successfully and can print through the TL-PS110P.

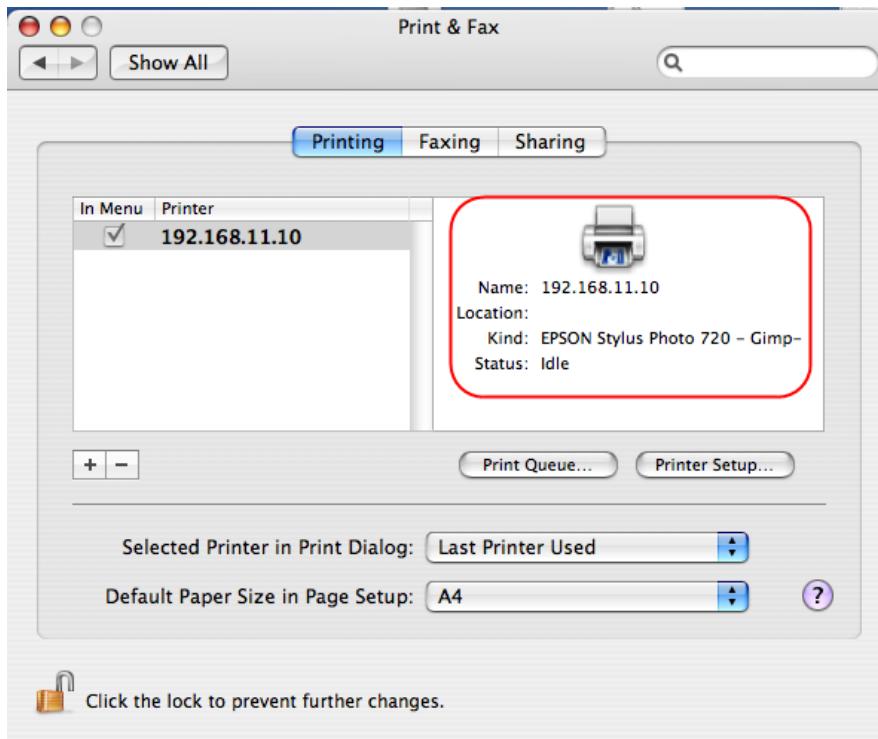


Figure 3-42

3.4 Printer Installation

Other computers in the same local network that need to share the printing should add the Standard TCP/IP port on their system. There're two conditions. Please choose one according to your system. In this section, we take Windows Vista for example.

[Section 3.4.1](#) is on the precondition that you have ever installed a printer driver and now you want to use a print server to share the printer through your network. You need to change the printer port to Standard TCP/IP port.

[Section 3.4.2](#) is on the precondition that you never use the printer on your computer before but also want to share printing. You just need to add a printer, follow the steps to create a Standard TCP/IP port, and then install the printer driver.

3.4.1 If You Have Installed A Printer Before

1. Click **Start > Control Panel > Classic View > Printers.**

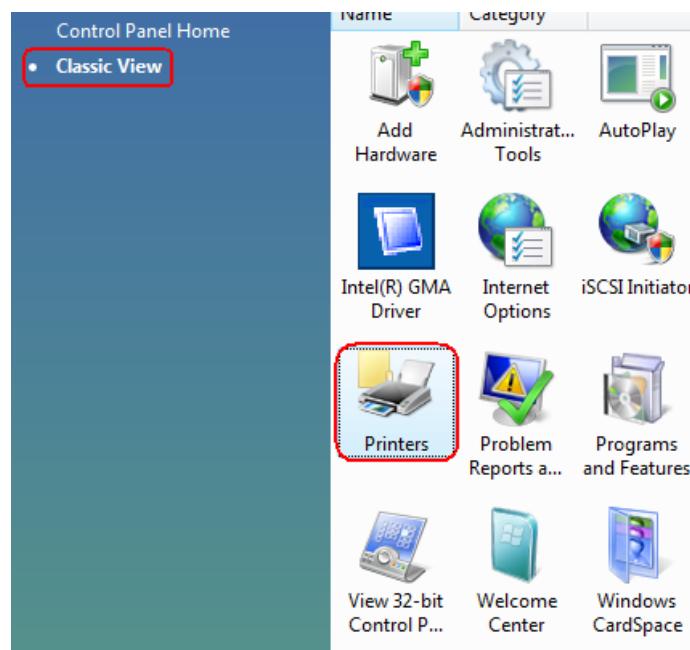


Figure 3-43

2. Find your installed printer icon, **right-click** on it, and select **Properties**.

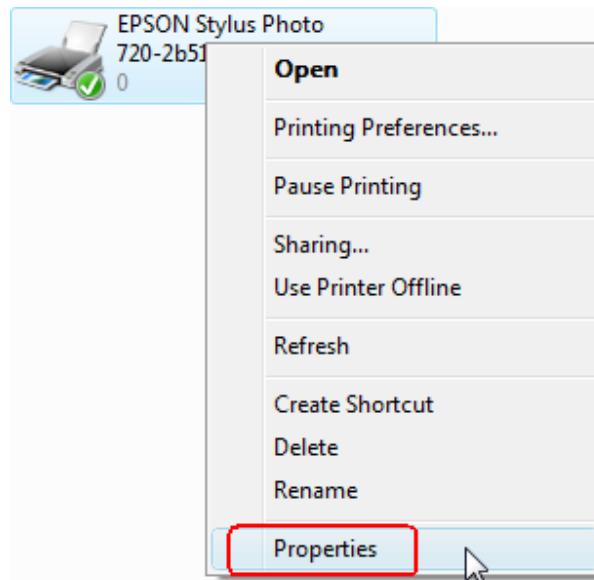


Figure 3-44

3. Click **Ports > Add Port > Standard TCP/IP Port > New Port > Next**.

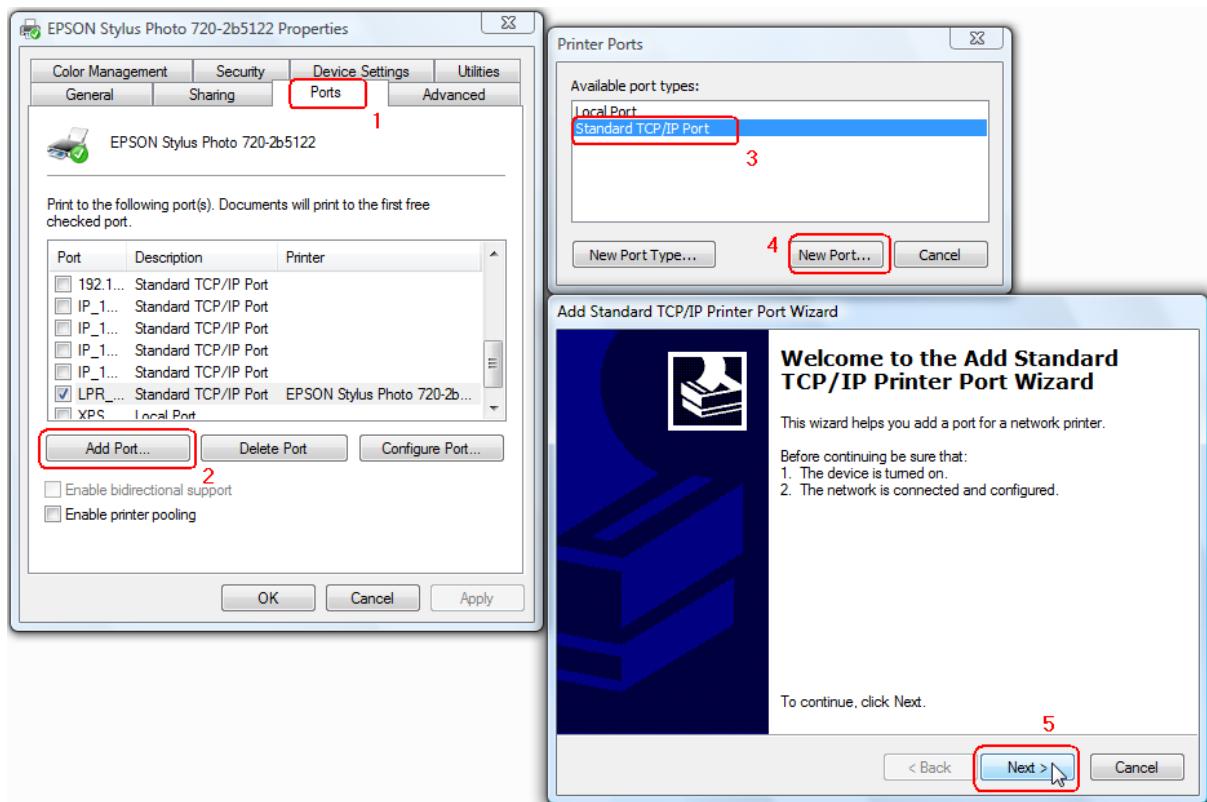


Figure 3-45

- Input the exact **IP address** of print server. Here takes 192.168.0.10 for example. Click **Next**.

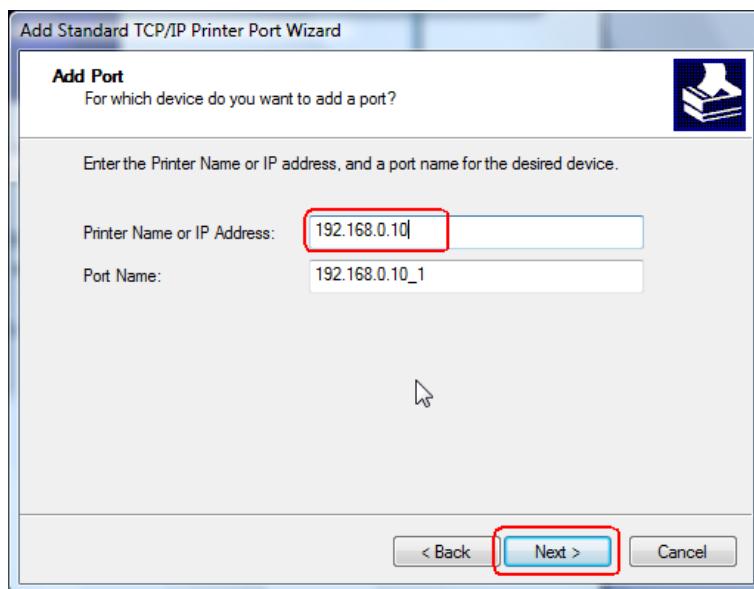


Figure 3-46

- Select **Custom**, and click **Settings**.

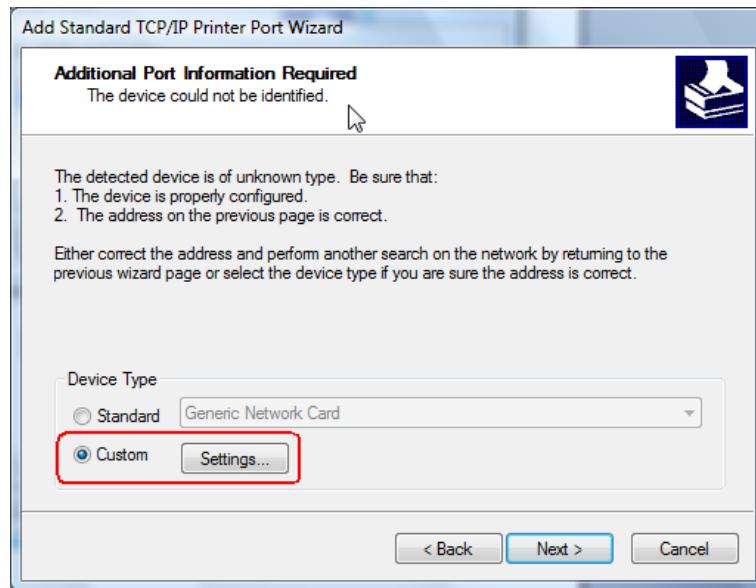


Figure 3-47

6. Choose **LPR**, and input the queue name as **lp1**. Click **OK**.

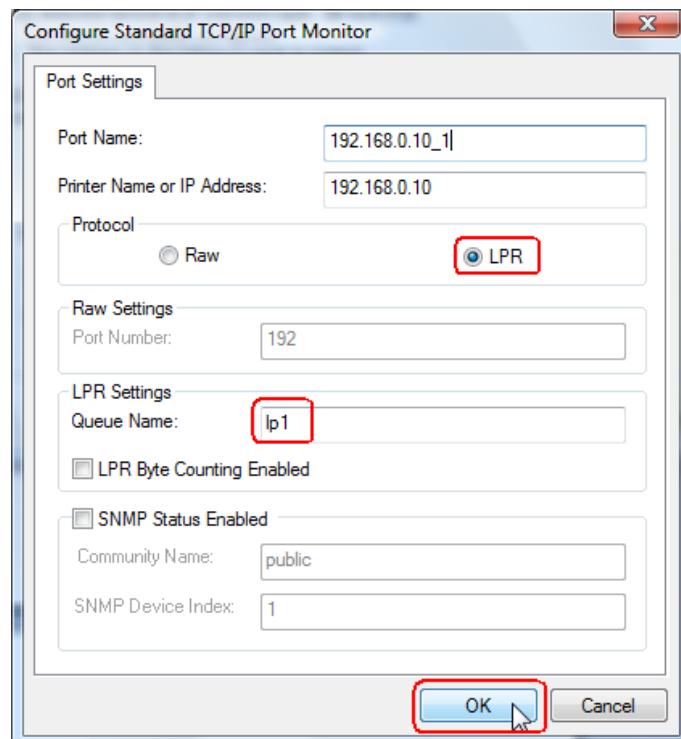


Figure 3-48

7. Click **Next** and then **Finish**, to complete the wizard.

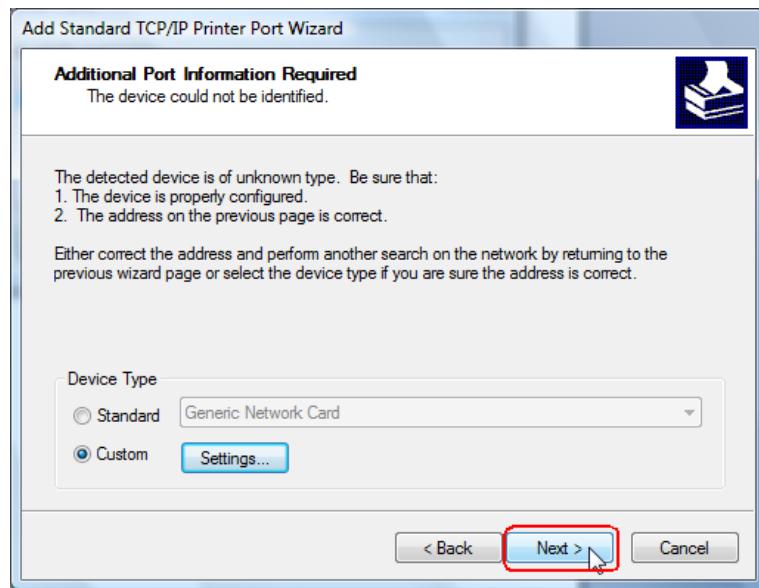


Figure 3-49

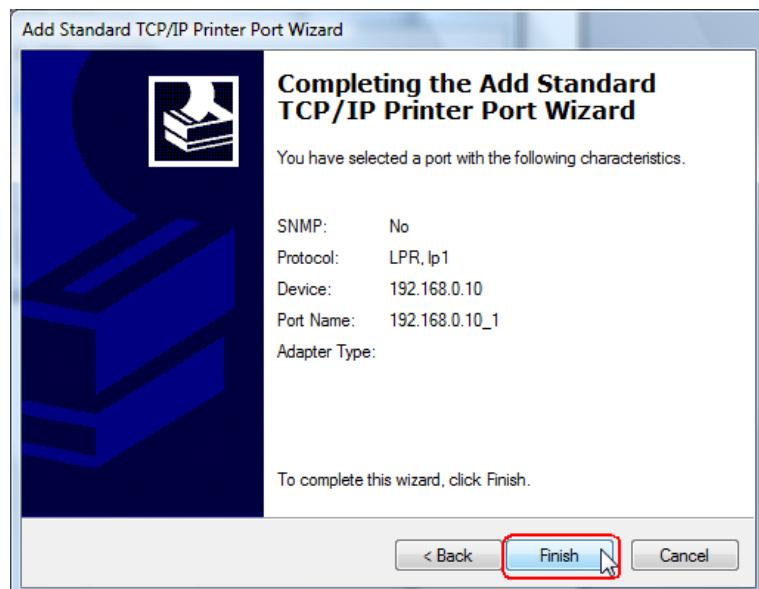


Figure 3-50

8. Click **Close** and **Apply**.

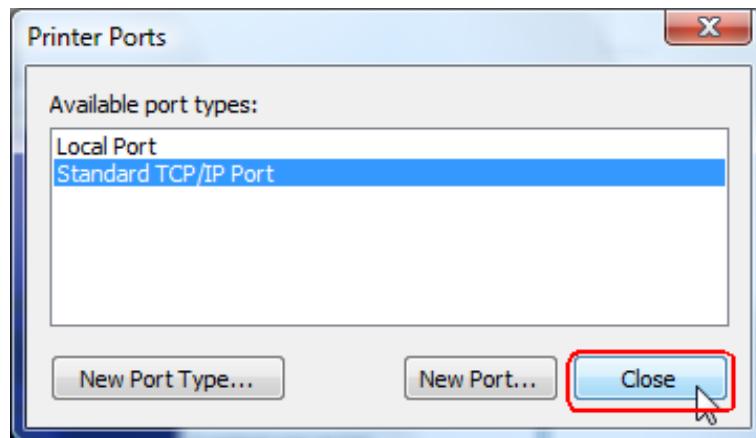


Figure 3-51

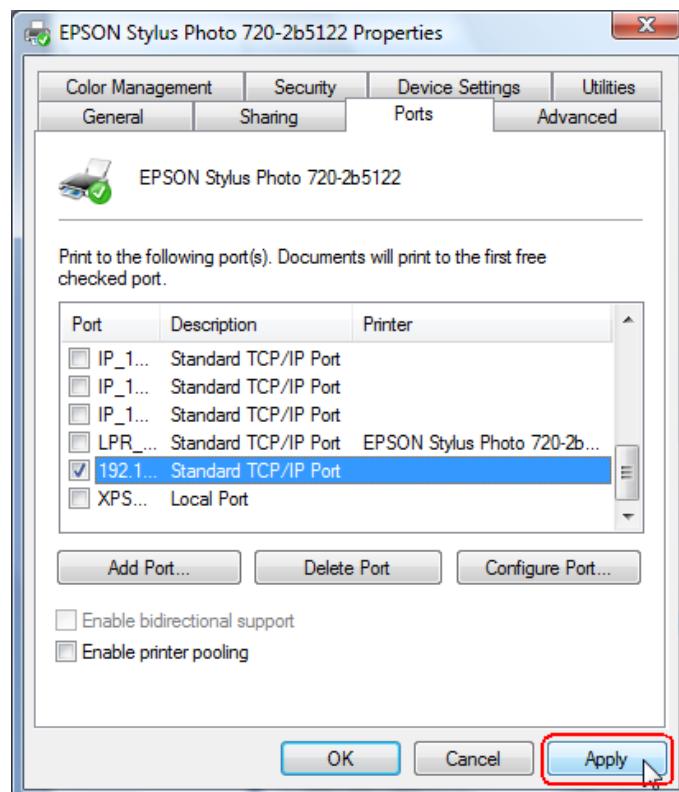


Figure 3-52

9. Now, the printer port has been created.

3.4.2 If You Never Install A Printer Before

1. Click **Start > Control Panel**, and select **Devices and Printers**.

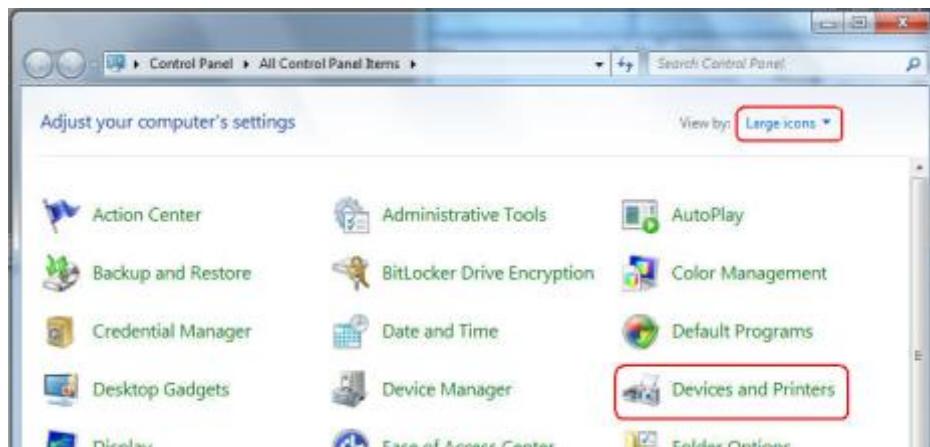


Figure 3-53

2. Click **Add a printer**.

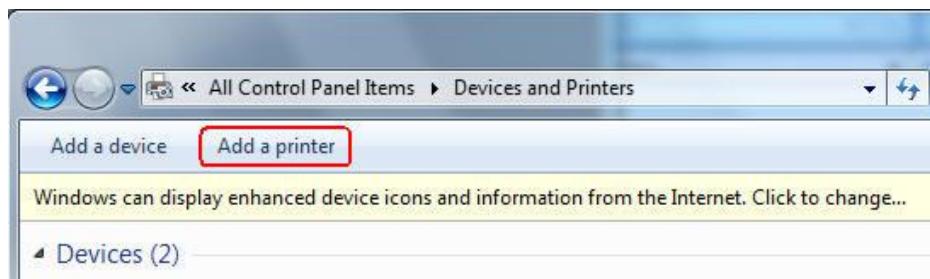


Figure 3-54

3. Select **Add a local printer**.

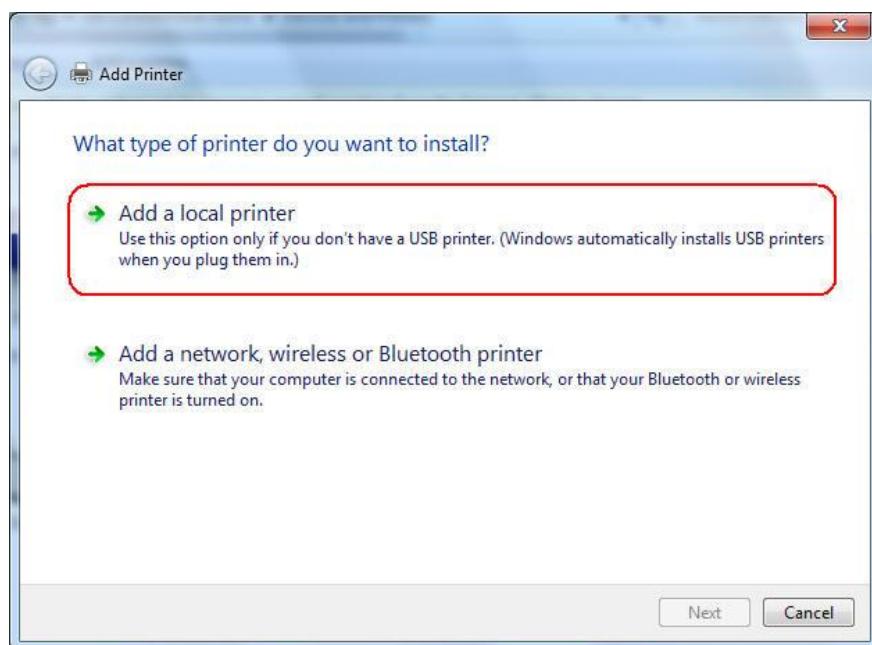


Figure 3-55

4. Select "**Create a new port**", and the type of port is "**Standard TCP/IP Port**".

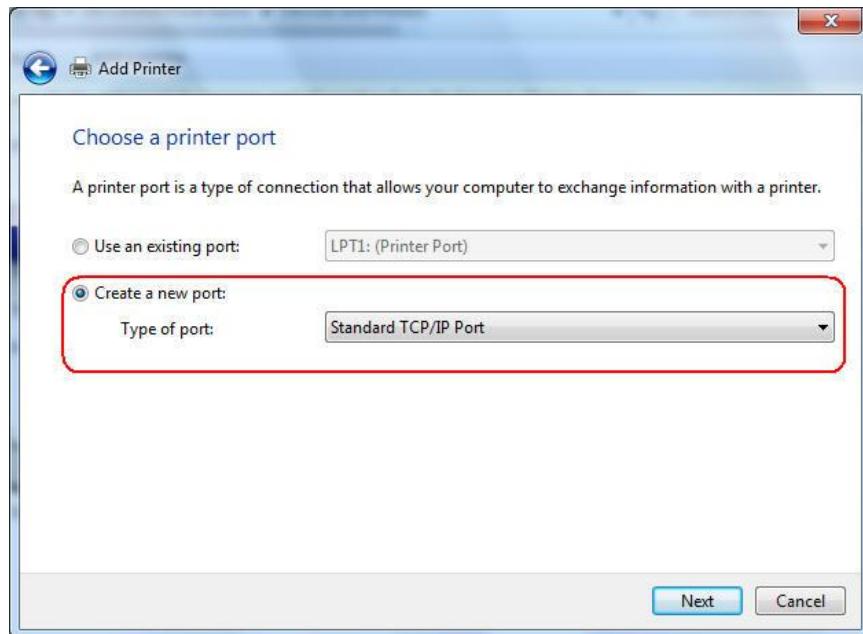


Figure 3-56

5. Input the **IP address** of the print server and click **Next**. The windows will detect the TCP/IP Port. Please wait for the next page.

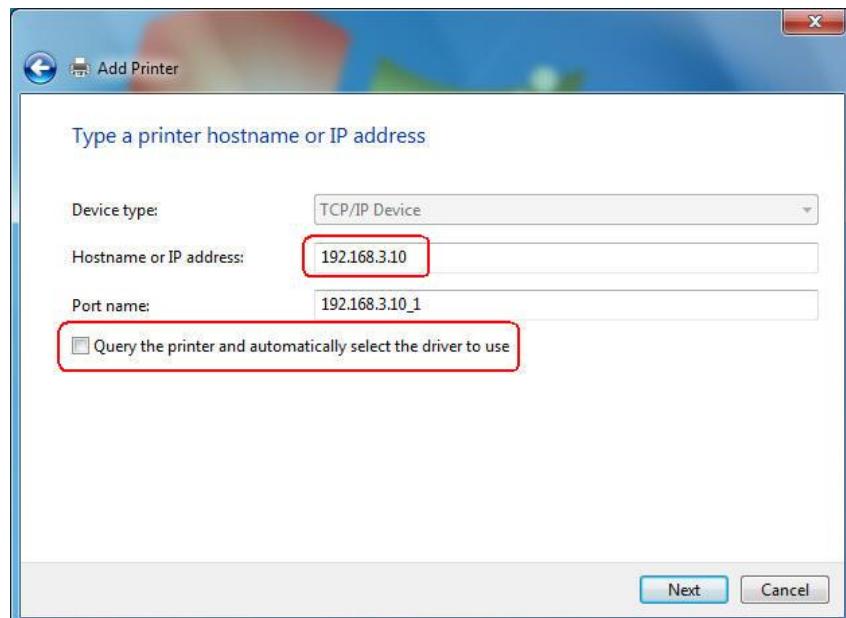


Figure 3-57

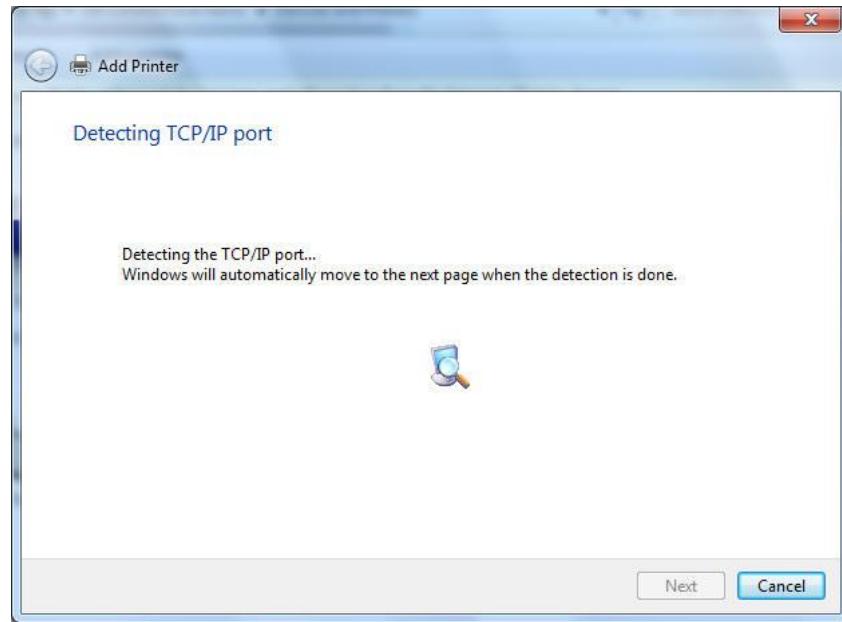


Figure 3-58

- On the following page, select **Custom** and click **Settings**. And then on the next page, please select **LPR** as the Protocol and the Queue Name is **lp1**.

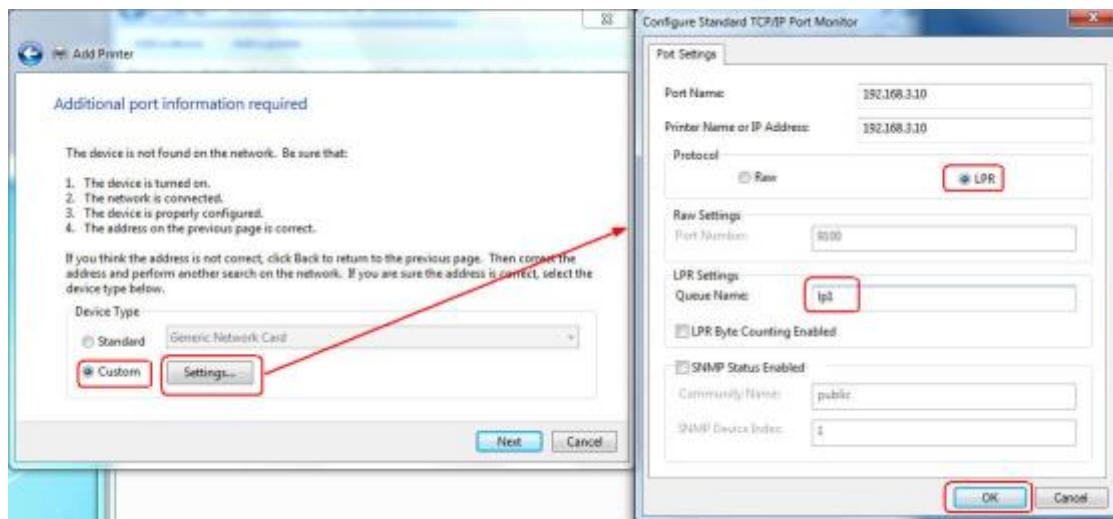


Figure 3-59

- The windows will ask you to install the driver of the printer. You can select one in the list or click **Have Disk** to install other drivers. Please follow the steps to finish the installation.

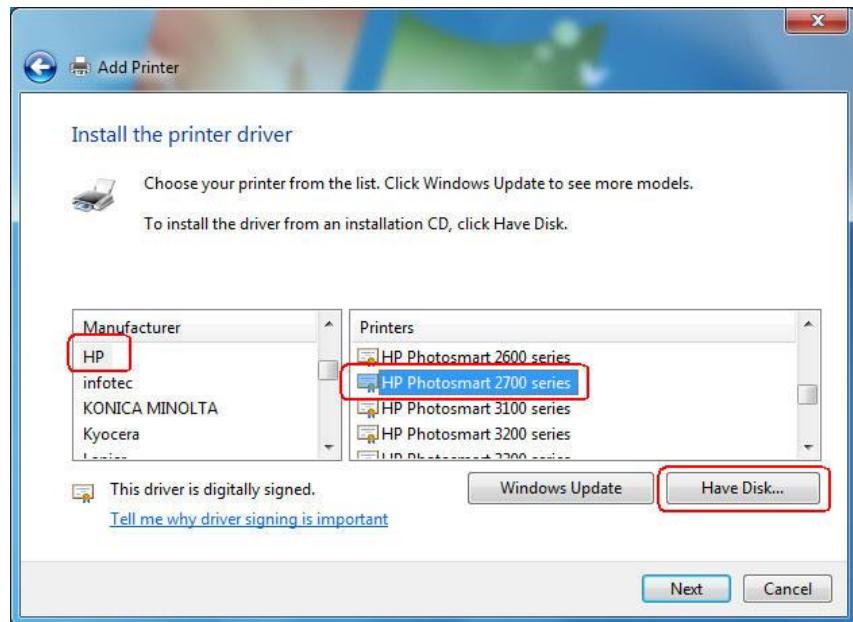


Figure 3-60

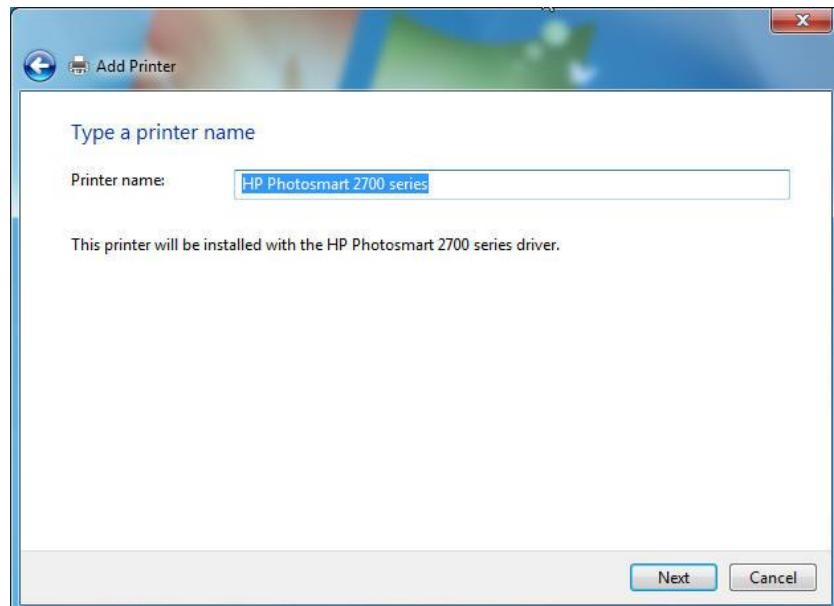


Figure 3-61

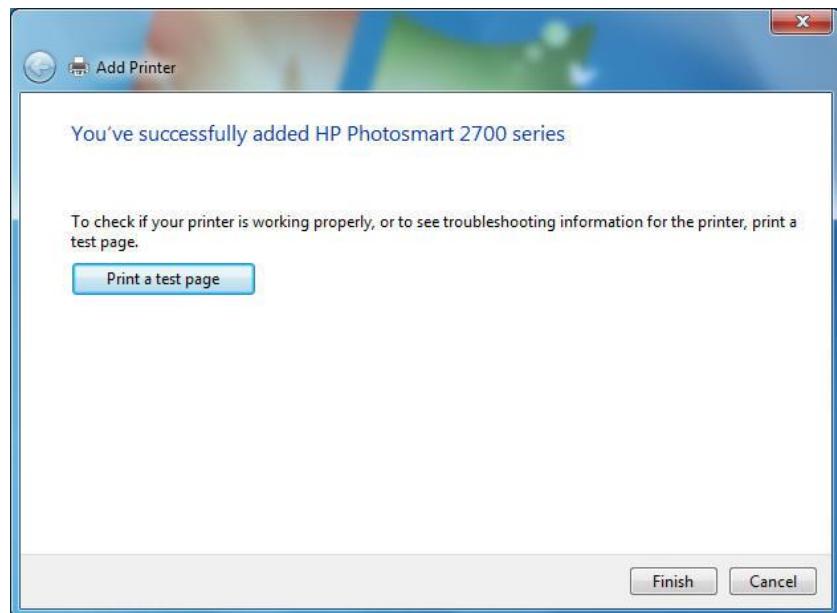


Figure 3-62

- After that, the new printer is in the list. And you can enjoy the sharing.

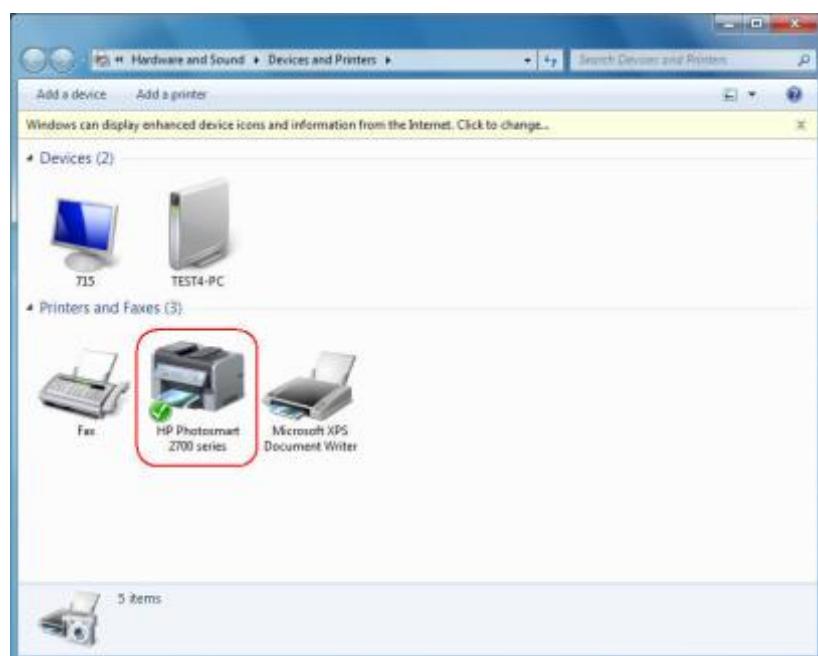


Figure 3-63

Chapter 4. More Configuration for the Print Server

The Print Server contains an embedded web server that can be accessed through a supported web browser on a WLAN, for example, IE6, Firefox or above is recommended. The embedded web server provides access to configuration and management pages for the print server and the connected peripheral device.

To use the embedded web server, you should first connect your adapter to the print server.

4.1 Login

Open a web-browser and type in the IP address of the print server (the default is 192.168.0.10) in the address field of the browser to login to the web management of the print server.



Figure 4-1

After a moment, a login window will appear, similar to the Figure 4-2. Enter **admin** in lower case letters for the User Name. Then click the **OK** button or press the **Enter** key.



Figure 4-2

Then the print server web management page will appear, with which you can configure all print server settings.

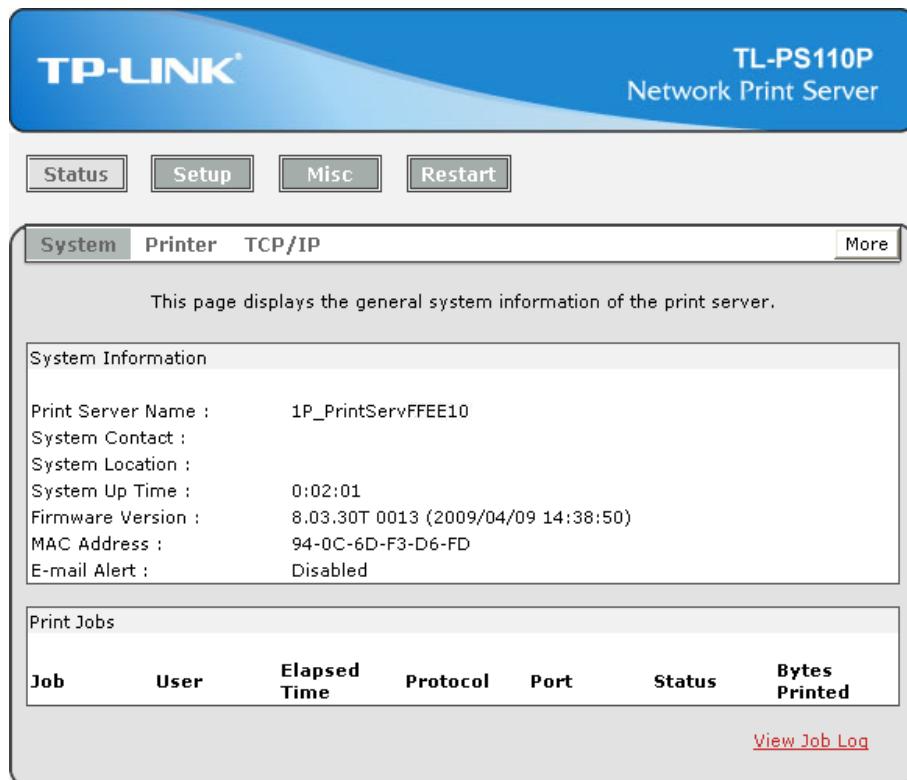


Figure 4-3

4.2 Status

The Status page shows the current information about the print server as shown in Figure 4-3. By clicking the corresponding tab, you can view the following information, including **System**, **Printer**, and **TCP/IP**.

4.2.1 System

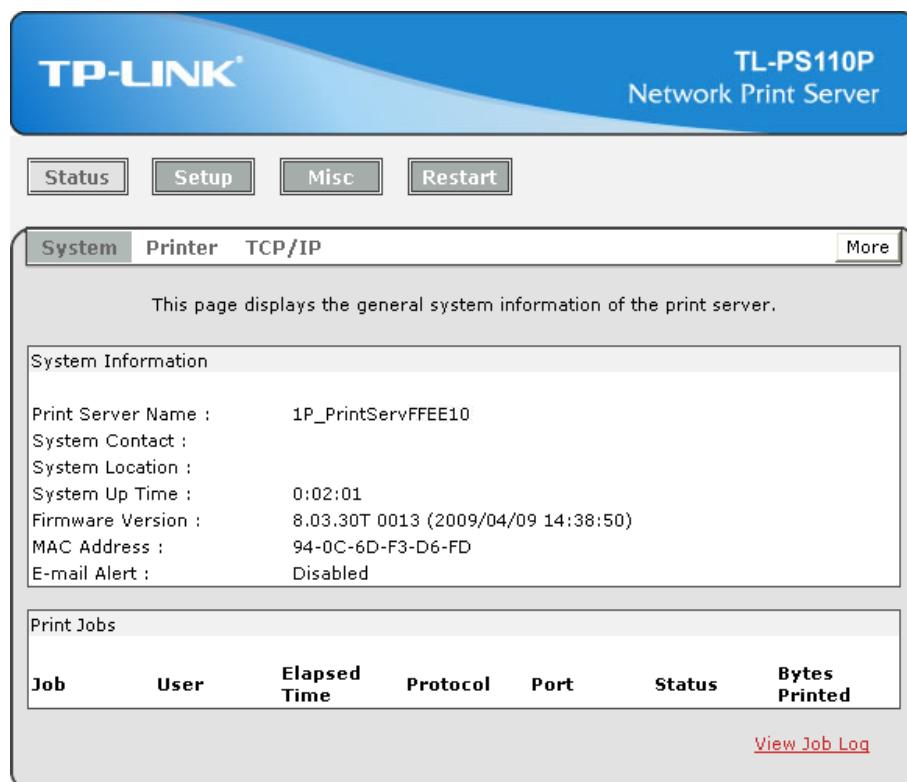


Figure 4-4

- **Print Server Name:** This option allows you to view device name of the print server. To correct the print server's device name.
- **System Contact:** This option allows you to view contact name of the print server and to check the print server's contact name who in charge of this device.
- **System Location:** This option allows you to view Location name of the print server and to confirm the print server's location name where the print server is located in the office's LAN.
- **System Up Time:** This option allows you to view uptime of the print server. When you start the print server, it will compute the print server from start time to power off time.
- **Firmware Version:** This option allows you to view firmware version of the print server. To verify the print server's firmware version is newer in this time.
- **MAC Address:** This option allows you to view Node ID of the print server. The Node ID is unique from any print server.
- **Email Alert:** This option allows you to view the status of Email Alert feature.
- **Print Jobs:** This option allows you to view all the print jobs sent by any network user.

4.2.2 Printer

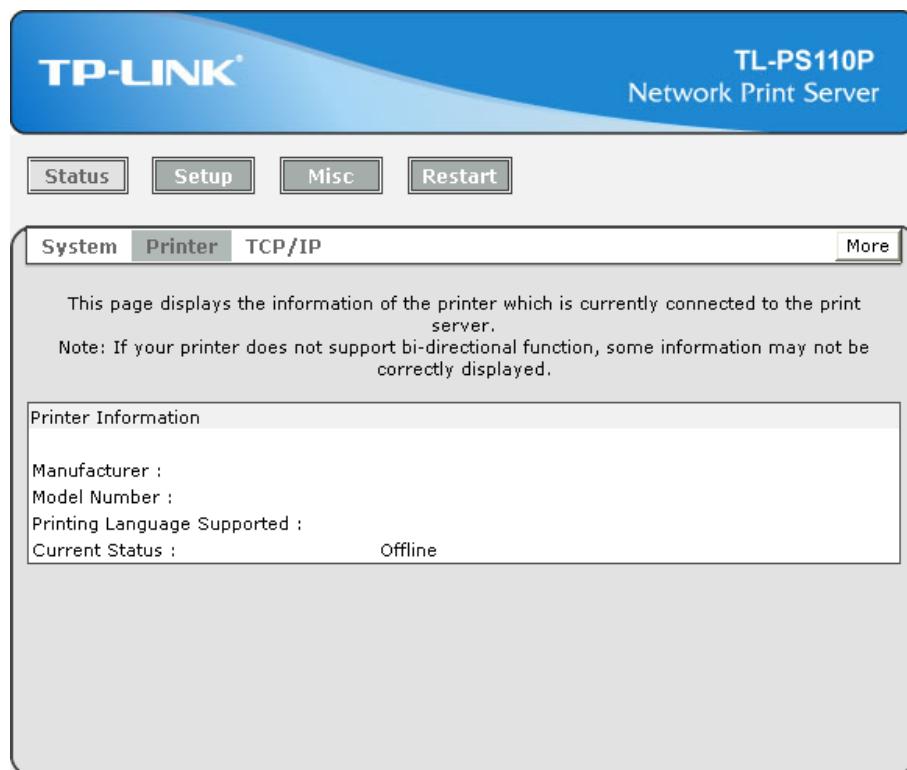


Figure 4-5

- **Manufacturer:** This option allows you to view manufacturer of the printer. When the printer connected with the print server, it will be show in the manufacture box.
- **Model Number:** This option allows you to view model of the printer. When the printer connected with the print server, it will be show in the model box.
- **Printing Language Supported:** This option allows you to view command to set the printer. When the printer connected with the print server, it will be show in the command box.
- **Current Status:** This option allows you to view status of the printer. When the printer connected with the print server, it will be show in the status box. For Example: Waiting for job. It is means the printer already to printing.

4.2.3 TCP/IP

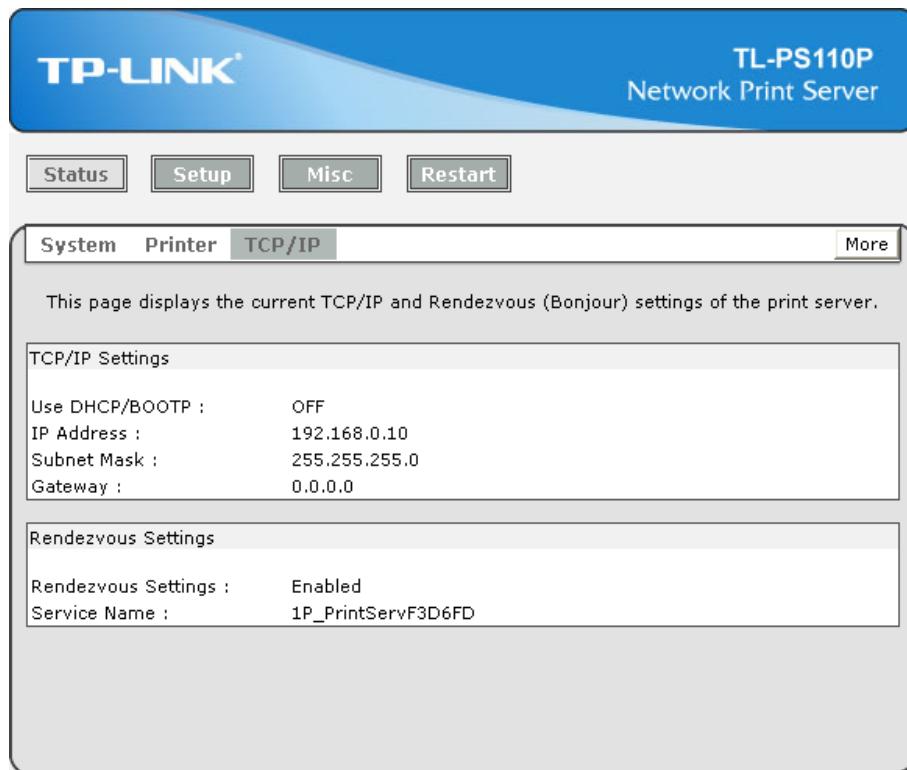


Figure 4-6

- **Use DHCP/BOOTP:** This option allows you to view DHCP/ BOOTP status. If there is a DHCP/BOOTP server on your network, this option allows the print server to obtain IP-related settings automatically from your DHCP server.
- **IP Address:** This option allows you to view IP address from the print server. The IP address must meet the IP addressing requirements of the network segment. (default: 192.168.0.10)
- **Subnet Mask:** This option allows you to view subnet mask from the print server.
- **Gateway:** This option allows you to view gateway from the print server.

4.3 Setup

The Setup page allows you to configure general system settings of the print server. By clicking the corresponding tab, you can configure the following items, including **System**, **Wireless**, and **TCP/IP**.

4.3.1 System

Click **System**, the following screen will appear.



Figure 4-7

- **E-mail Alert:** This option allows you to receive alert of the device.
- **SMTP Server IP Address:** Enter the IP Address of the SMTP Server.
- **Administrator E-mail Address:** Enter the e-mail address used to receive alert.
- **Print Server Name:** This option allows you to input device name of the print server. To correct the print server's device name.
- **Password:** This option allows you to change password of the print server. TL-PS110P is produced with no password. (default user name is **admin**, it's not available to change)

4.3.2 Printer

Click **Printer**, the following screen will appear.

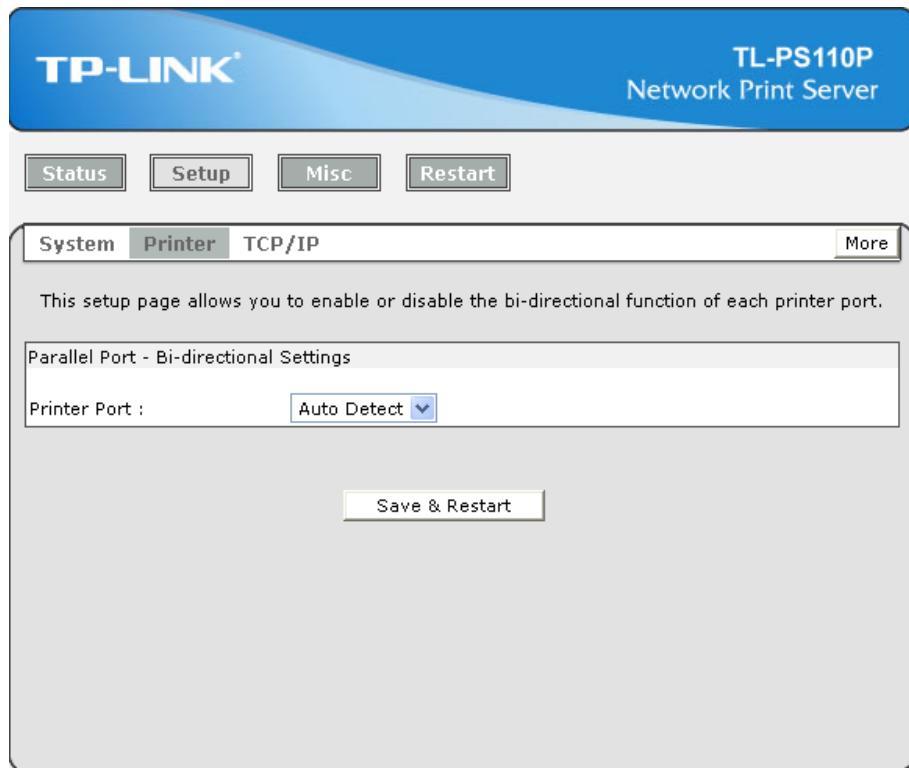


Figure 4-8

- **Bi-directional Settings:** This option allows you to select the bi-directional of the print server. There are two ways to select this option, includes **Disable** or **Auto Detect**.

4.3.3 TCP/IP

Click **TCP/IP**, the following screen will appear.



Figure 4-9

- **Use DHCP/BOOTP:** This option allows you to select DHCP/ BOOTP option. If there is a DHCP/BOOTP server on your network. This option allows the print server to obtain IP-related settings automatically from your DHCP server.
- **IP Address:** This option allows you to input IP address from the print server. The IP address must meet the IP addressing requirements of the network segment.

Note:

On the TCP/IP Setup screen, specify a fixed IP address is highly recommended.

- **Subnet Mask:** This option allows you to input subnet mask from the print server. The IP address must meet the IP addressing requirements of the network segment.
- **Default Gateway:** This option allows you to input gateway from the print server. This IP address of gateway must meet the router or gateway to go across of the network segment.
- **Rendezvous Settings:** Enable/Disable the Rendezvous(Bonjour) support for Apple Mac OS X 10.2 or higher.

4.4 Misc

4.4.1 Factory Default

Click **OK** to restore the print server to its Factory Default settings.

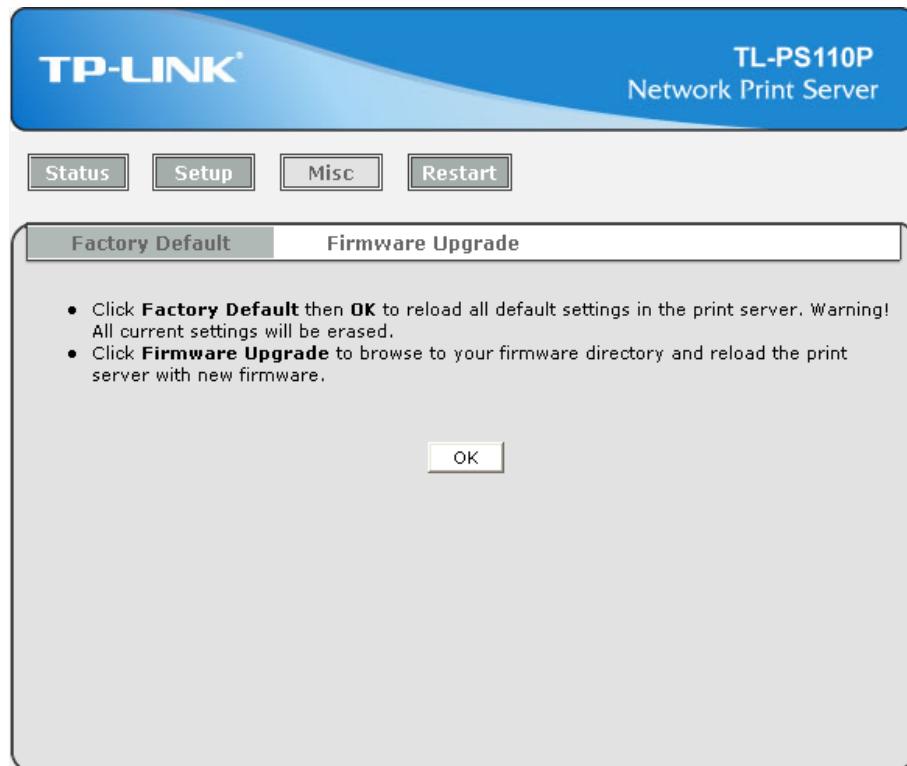


Figure 4-10

4.4.2 Firmware Upgrade

Click **Browse...** to select the firmware file and then click **Firmware Upgrade** to upgrade the firmware of the print server.

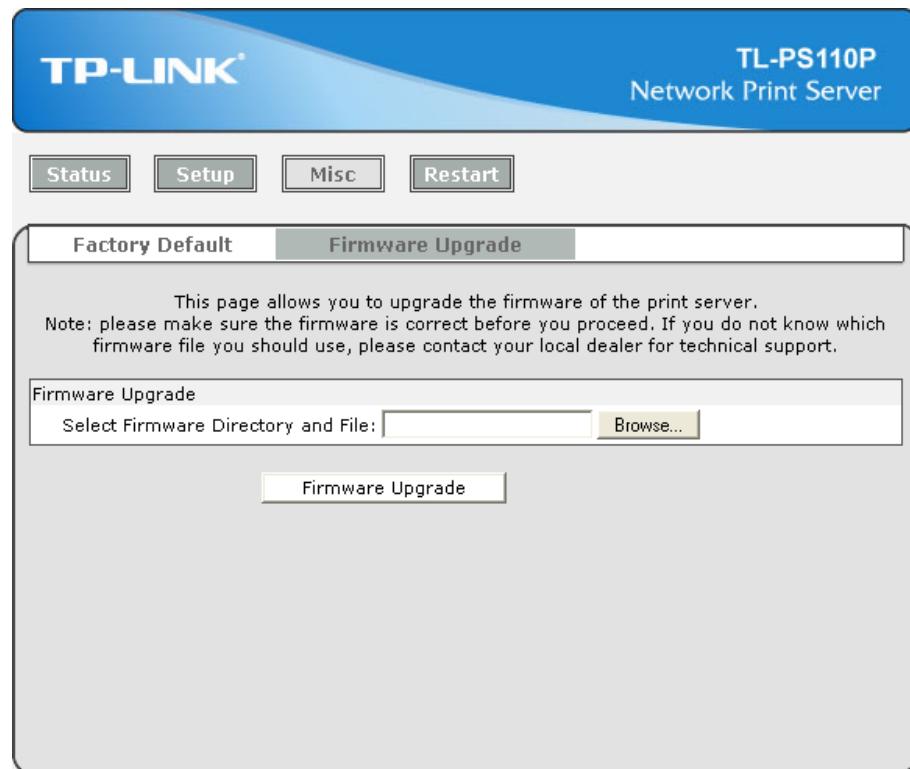


Figure 4-11

4.5 Restart

Click **OK** to reboot the print server.

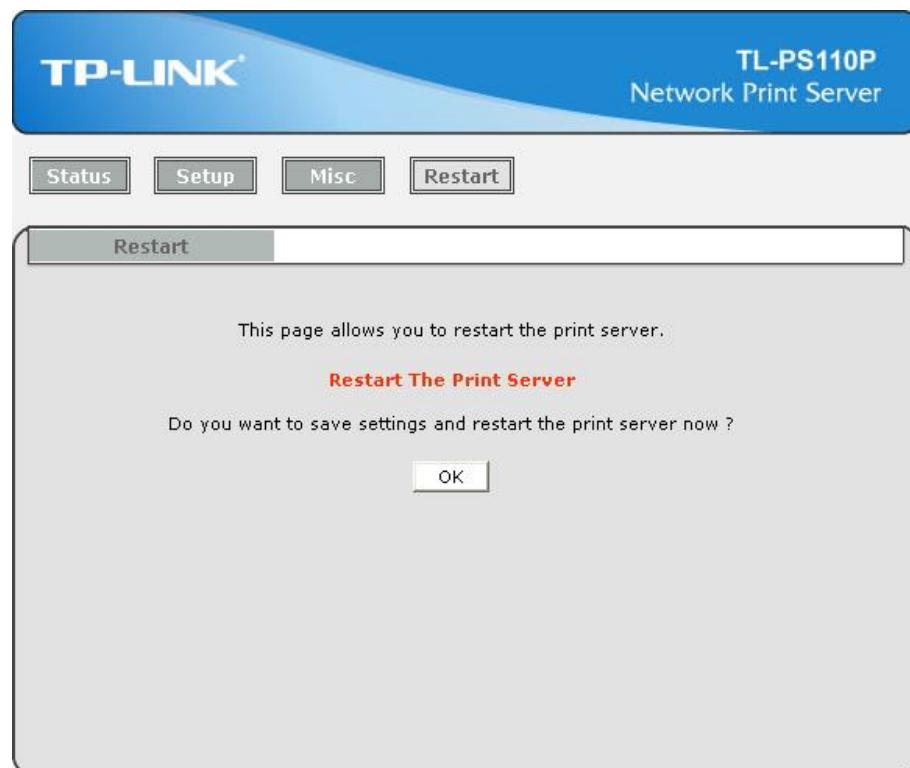


Figure 4-12

Appendix A: How to Reset the Print Server

If you lose the connection with the TL-PS110P by doing wrong configuration, you need to reset it to factory and reconfigure it again.

Here are the steps for the resetting

1. Unplug the power adapter of the TL-PS110P;
2. Press and hold the **Reset** button on the TL-PS110P;
3. Plug in the power adapter of the print server with the **Reset** button pressed for about 10 seconds.
4. Release the **Reset** button.
5. The print server will restart.

Appendix B: Troubleshooting

General Troubleshooting Overview

The most common problems, which cause the print server to perform improperly, are covered in this chapter. If a problem still exists after reading this chapter, please contact your dealer for technical support.

1) LED Light Indicators

The print server is equipped with LED lights to assist in diagnosing problems that are the result of the network and/or the print server hardware itself.

Status (Yellow)

When the print server unit is powered on, the **Status** LED will flash five times as part of the unit's **Power On Self Test (POST)**. This indicates that the print server hardware is properly configured.

 **Note:**

Make sure that the LED flashes five times (POST) upon connecting the power. If the unit does not flash five times, contact your dealer for a replacement or repair.

LAN (Green: 100Mbps; Yellow: 10Mbps)

2) Power Related Problems

The print server requires an external AC power adapter in order for it to function. If you have a power problem, check to see whether the power cord or its connectors are damaged. More importantly, check to see that the AC power adapter included with the print server matches the AC voltage in your country or area. Using an incorrect AC adapter will damage your print server.

3) Print Port Related Problems

Printing data failure may be caused by a loose connection of the print server to the parallel port of the printer. Check to see if any of the pins on the parallel port connector are damaged. In addition, check the cable connection. If the pins are damaged, contact your dealer for a replacement connector.

4) TCP/IP Troubleshooting

When you are configuring a new print server on your NT/UNIX server through LPR Port printing under TCP/IP protocol, you might encounter the following problem in your initial installation steps:

"I can do the "arp" command. However, when I am going to ping or tftp the print server, it always shows Request timed out. I have checked the print server's power and it exactly passed the POST. Besides, the network cabling is OK. As such, I can't do tftp command to get and put the print server's configuration file and save its IP address permanently. I can't, therefore, continue

installing the print server."

Regarding this problem, there are three possible causes:

A. The print server's Node ID you specified in the "arp" command is not correct.

If this is the case, please ensure the Node ID field in the corresponding entry of the print server's IP address in NT's ARP cache table is correct by typing the following command at NT's DOS prompt. "arp -a"

If the Node ID shown on the screen doesn't match the print server's Node ID, please follow the instructions below to reset the entry.

1. At NT's DOS prompt, type "arp -d <print server's IP address>" to delete the current entry.
2. Type "arp -s <print server's IP> <print server's Node ID>" to specify a new ARP entry.
3. Refer to Chapter 7 for the detailed instructions to complete the installation.

B. The print server's IP address is duplicated or is as same as another computer's IP address on the network.

If this is the case, please consult your network administrator to obtain an unused IP address for your print server.

C. The print server is on one segment and your Windows NT server is on the other segment.

(This troubleshooting guide will also apply to a multiple-segmented network while installing the print server)

For example, assuming the print server is on Segment A, NT server is on Segment B, and there is a gateway computer between Segment A and Segment B. The network might be a complete TCP/IP network, or a hybrid of TCP/IP and IPX/SPX network.

If this is the case, you have to adopt the following steps, depending on which platform the gateway computer is.

- a. If the gateway computer is a NT/UNIX server:

You have to do the same "arp" command to specify an entry on the NT/UNIX computer as a gateway in order for it to forward your subsequent "ping" or/and "tftp" commands to the print server.

- b. If the gateway computer is a Novell NetWare file server:

1. Due to the presence of this NetWare file server, the IPX/SPX protocol might be used on your network. Therefore, we strongly suggest you run the **PSAdmin** from any client computer and select "**Manual Setup**" to specify the print server's IP address (For more detailed information about Manual Setup, please refer to Chapter 3).

2. If the solution described above is not applicable, you have to follow the instructions below to set up the print server's IP address.

For the purpose of explanation, we assume the NT server is on Segment A and its IP address is 192.72.214.66 (subnet mask: 255.255.255.224), the print server is going to be installed on Segment B, with IP address, for example, 192.72.214.100.

1. Find an unused IP address on Segment A for temporary use in the following steps, for example, 192.72.214.68.
2. Connect your print server to Segment A as a networked node.
3. On your NT server, type, for example, "arp -s 192.72.214.68 00-40-01-3F-02-AB". Please note, in this arp command you have to type 192.72.214.68 on purpose. Do not type this IP address as 192.72.214.100.
4. Type "tftp 192.72.214.68 get config.txt". The configuration file will then be retrieved and transferred to your NT server.
5. Type "edit config.txt" to modify this configuration file.
6. In your editor, modify "**BoxIPAddress**" field from "0.0.0.0" to "192.72.214.100". **Leave other options as default and do not change their values.** When done, save this new file and quit from your editor. **Please note, in this step you must specify an IP address which is valid on Segment B, such as 192.72.214.100 in this example, rather than 192.72.214.68.**
7. Type, for example, "tftp 192.72.214.68 put config.txt" to save this new configuration back to print server.
8. Move the print server back to the Segment B.
9. Done!

Appendix C: Frequently Asked Questions

1) Question A:

Print jobs are sent to the print queue successfully, but fail to be sent to the printer.

Possible explanations:

1. The Print server Name/Print Queue configuration is incorrect.
2. The Print server name specified and stored in the print server memory doesn't match the same one.
3. The power adapter connected to the print server is loose or disconnected.
4. The printer is off-line, jammed or out of paper.

Solutions:

1. Check all the information in print port setting.
2. Check all the information of the print server by running PSAdmin.
3. Check to see that if the power adapters are properly connected.
4. Recheck the print server connection by running the PSAdmin.

2) Question B

Print jobs start printing, but print very slowly or print unknown characters.

Possible explanation and solution:

A printer driver is missing or is incompatible with that printer. Using a print driver that is not specific for the printer can cause printing errors. Install the proper printer driver. If these printer drivers are not available to you, please contact your printer manufacturer.

3) Question C

The upgrading process indication bar stops and does not seem to proceed again while upgrading the print server.

Possible Explanation:

There might be a network problem. This causes the upgrading procedure to fail.

Solutions:

- 1) Check the wireless network connection, especially from the workstation running the PSAdmin to the print server unit.
- 2) Upgrade the print server again by PSAdmin or WEB browser.

4) Question D

The setup Wizard can't find print server.

Possible Explanation:

The Personal Firewall installed in your computer blocks the connection.

Solution:

Please disable the Personal Firewall temporarily or adjust the security level to lower.

Appendix D: Additional Installation Instructions

Panasonic KX-P6100/6300/6500

If you are using a Panasonic KX-P6100/6300/6500 laser printer with the print server through the **Network Print Port** under Windows 95/98, please redirect the printer named “**Panasonic KX-P6100 PCL**” or “**Panasonic KX-P6300 PCL**”, or “**Panasonic KX-P6500 PCL**” to the print server through the **Network Print Port**.

DO NOT redirect the printer named “Panasonic KX-P6100 GDI”, “Panasonic KX-P6300 GDI”, or “Panasonic KX-P6500 GDI” to the print server.

Please note that the print server doesn't support printing with host-based printers, e.g. CAPT, GDI, and PPA printers. Furthermore, the print server doesn't support any non-printing functions of MFP (Multiple Function Printer).

In case of static electricity or noise of power cable issue causes print server to disconnect, please re-plug the USB cable or re-start power to connect again.