TP-LINK®

User Guide

TL-PS110U

Single USB2.0 Port Fast Ethernet Print Server



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FCC STATEMENT

FC

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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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.

Chapter 1	Introduction	.1
1.1 Pro	oduct Overview	. 1
1.2 Co	mponents and Features	. 1
1.3 LEI	D Indicator	. 1
1.4 Fac	ctory Defaults	. 1
Chapter 2	. Hardware Installation	.2
2.1 Pre	eparation	. 2
2.2 Co	nnection	2
Chapter 3	. How to Configure the Print Server	.3
3.1 Usi	ing PSWizard in Windows XP/ Windows Vista/ Windows 7	. 3
3.2 Usi	ing Web Management Page in Windows XP/ Windows Vista/ Windows 7	14
3.3 Usi	ing Web Management Page on MAC OS	20
3.4 Pri	nter Installation	27
3.4.1	If You Have Installed A Printer Before	27
3.4.2	If You Never Install A Printer Before	32
Chapter 4	. More Configuration for the Print Server	38
4.1 Log	gin	38
4.2 Sta	itus	39
4.2.1	System	40
4.2.2	Printer	41
4.2.3		42
4.3 Set	tup	12
4.3.1	System	
4.3.2	TCP/IP	
4.4 Mis	SC	
4.4.1	Factory Default	
4.4.2	Firmware Upgrade	
	start	
Appendix	A: How to Reset the Print Server4	17
Appendix	B: Troubleshooting	18
Appendix	C: Frequently Asked Questions	51
Appendix	D: Additional Installation Instructions	53

CONTENTS

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

- > One USB2.0 port
- Fast Ethernet network port: RJ-45 for 10Base-T or 100Base-TX
- > One 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 Indicator

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.
USB	On (Green)	Connect with USB2.0 printer
036	On (Orange)	Connect with USB1.1 printer

PNote:

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

PNote:

The TL-PS110U 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 USB port
- > One USB 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 the USB 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).

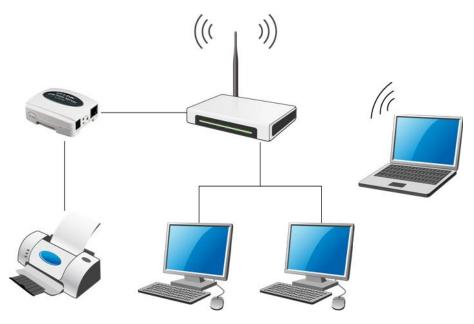


Figure 2-1

PNote:

The TL-PS110U is produced without password by default.

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.

 Insert the setup CD into your CD-drive. The autorun program will be started as shown in Figure 3-1. Select the model (TL-PS110U) of your print sever.

TP-LINK	Thank you for choosing TP-LINK Print Server.
Please select	the model of your Print Server:
	TL-PS110P
L h	TL-PS110U
MA >	TL-PS310U
	TL-WPS510U
	EXIT
Please	e visit our website for more information. http://www.tp-link.com

Figure 3-1

2. Choose Setup Wizard.



Figure 3-2

PNote:

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.

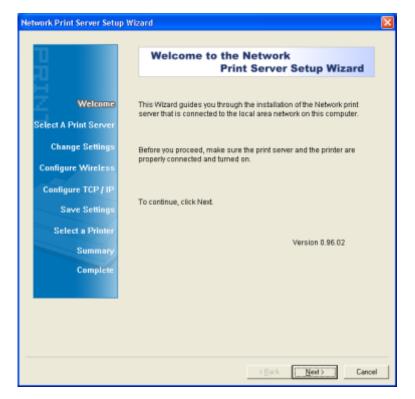


Figure 3-3

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.

11				
u n	Select A	Print Ser	ver	
Welcome			g print servers on th o set up from the lis	
elect A Print Server	Detected print serv	vers on your local	I network :	
Change Settings	Device Name	IP Address	MAC Address	Port Status
Configure Wireless	1P_PrintServFF	192.168.0.10	00:40:01:FF:EE	U1 OK
Configure TCP / IP				
Save Settings				
Save Settings Select a Printer				
	<			
Select a Printer	If the print server y check the connect	ou want to set up		Refresh(R)
Select a Printer Summary	If the print server y check the connect Note : If your print	ou want to set up ion and click Refi i server has just t rint server to initia		ay take a few
Select a Printer Summary	If the print server y check the connect Note : If your print minutes for the p	ou want to set up ion and click Refi i server has just t rint server to initia	tesh. been turned on, it m	ay take a few

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-PS110U is produced without password. Click Next and then appears "TCP/IP Settings" screen as shown in Figure 3-6. Proceed with the following steps.
 - Select "No" if you don't need to change any settings. Click Next and then appears Figure 3-9. Skip to Step 8.

77	
ž –	Change Settings
Welcome	This Wizard allows the network administrator to change some basic
Select A Print Server	settings of the print server. If you are not the network administrator, do not change settings. Wrong settings may cause the print server not to function property.
Change Settings	enceder property.
Configure Wireless	🍘 Yes, I want to change settings. 🕥
Configure TCP / IP	Password :
Save Settings	C No, I don't want to change settings. (0)
Select a Printer	
Summary	
Complete	
	To change settings, you must enter the password. A brand-new Network print server has no default password. If you are configuring a wireless print server and it's now operating in Diagnostic mode, you don't need to enter the password.

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.

	TCP/IP Settings
Welcome elect A Print Server	Specify TCPAP settings for the print server. The print server can be set up either to obtain IP address from a DHCP server on the network or to use a static IP address.
Change Settings Configure Wireless Configure TCP/IP Save Settings Select a Printer Summary	Obtain an IP address automatically (use DHCP) Specify an IP address IP Address IP Address Is2.168.1.10 Mask IP Address Is2.168.1.1 Gateway IP Address Is2.168.1.1
Complete	It's highly recommended that you set up the print server to use a static IP address. Make sure the IP address is correctly entered for the print server to work properly.

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.

rtwork Print Server Setup 1	12010		<u></u>
ц. Н	Confirm Set	tings	
Welcome	Current Settings : Print Server Name :	1P_PrintServFFEE10	
Select A Print Server	MAC Address :	00:40:01:FF:EE:10	
Change Settings	DHCP: IP Address : Subnet Mask :	Disabled 192.168.1.10 255.255.255.0	
Configure Wireless	Gateway :	192.168.1.1	
Configure TCP / IP			
Save Settings			
Select a Printer			
Summary			
Complete			
		< Back Next>	Cancel

Figure 3-7

Welcome Welcome Select A Print Server Change Settings Configure Wireless Configure TCP / IP Save Settings Select a Printer Summary Complete	Network Print Server Setup	Wizard (Not Responding	e)	X
Welcome Print Server Name : 1P_PrintServFFEE10 Select A Print Server MAC Address : 00:40:01:FF.EE10 Change Settings DHCP : Disabled Configure Wirelens IP Address : 192:168.1.10 Subnet Mask : 255:255:255.0 Gateway: 192:168.1.1 Save Settings Select a Printer Summary Complete	1	Confirm Set	tings	
Summary Complete	Select A Print Server Change Settings Configure Wireless Configure TCP / IP Save Settings	Print Server Name : MAC Address : DHCP : IP Address : Subnet Mask :	00:40:01:FF:EE:10 Disabled 192:168:1.10 255:255:255:0	
< Back Next> Cancel	Summary	Saving the settings to t		

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.

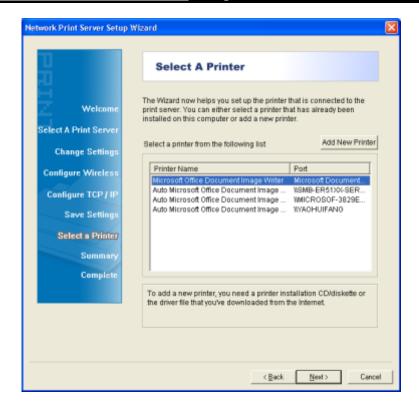


Figure 3-9

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.

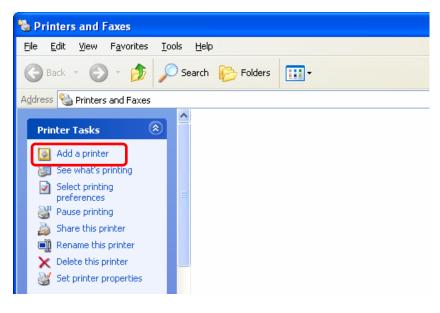


Figure 3-10

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.

Add Printer Wizard
Local or Network Printer The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use: Local printer attached to this computer Automatically detect and install my Plug and Play printer A network printer, or a printer attached to another computer To set up a network printer that is not attached to a print server, use the "Local printer" option.
< <u>B</u> ack <u>N</u> ext≻ Cancel

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.

Add Printer Wizard
Select a Printer Port Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
O Use the following port: LPT1: (Recommended Printer Port) ▼
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port: Type of port:
< <u>B</u> ack Next > Cancel

Figure 3-13

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

Add Printer Wizard		
Install Printer Software The manufacturer and model determine which printer software to use.		
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.		
Manufacturer Gestetner HP IBM infotec Iwatsu	Printers HP 2000C HP 2500C Series HP 2500C Series PCL5Ce HP 2500C Series PS3	
This driver is digitally signe		

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.

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name: HP 2500C Series
< <u>B</u> ack <u>N</u> ext > Cancel

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**.

Add Printer Wizard
Print Test Page To confirm that the printer is installed properly, you can print a test page.
Do you want to print a test page?
<u>O Y</u> es
< <u>B</u> ack <u>N</u> ext > Cancel

Figure 3-16

15. Click Finish.

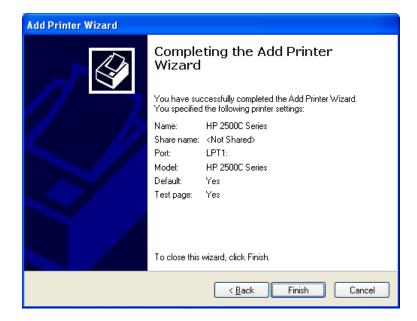


Figure 3-17

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.

π.	Select A Printer	
Welcome	The Wizard now helps you set up the printer the print server. You can either select a printer that installed on this computer or add a new printer	it has already been
elect A Print Server		
Change Settings	Select a printer from the following list	Add New Printer
Configure Wireless	Printer Name	Port
Configure TCP / IP	r and interessed since becauterin mage in	LPT1: 0SMB-ER51XX-SER 0MICR0S0F-3829E
Save Settings		WIANGDAN
Select a Printer		
Summary		
Complete		
	To add a new printer, you need a printer inst	
	the driver file that you've downloaded from the	ie internet.

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**.

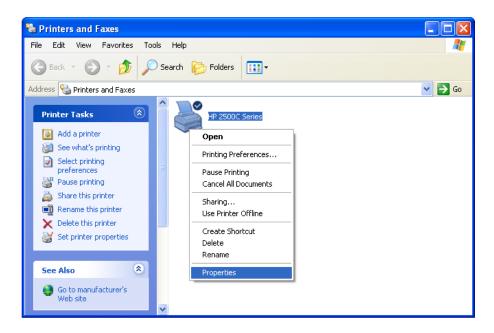


Figure 3-19

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

📽 HP 2500C Series Properties 🔹 ? 🔀					
Color Management Device Settings Services General Sharing Ports Advanced Image: Print to the following port(s). Documents will print to the first free checked port. Image: Print to the first free checked port.					
	OK Canc	el <u>Apply</u>			

Figure 3-20

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

HP 2500C Series Properties				
Color Manage	ment	Device Setting	gs	Services
General	Sharing	Ports	<u> </u>	Advanced
i i i i i i i i i i i i i i i i i i i	500C Series			
Location:				
<u>C</u> omment:				
Model: HP 2	500C Series			
Features				
Color: Yes		Paper availab	le:	
Double-sided: N	lo	Letter		~
Staple: No				
Speed: 11 ppm				
Maximum resolu	ition: 600 dpi			~
	Printing	Preferences	Print <u>T</u> e	est Page
		ОК	Cancel	Apply

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.

	Wireless Network Connection 12
-	Disa <u>b</u> le
	Yiew Available Wireless Networks
	Stat <u>u</u> s
	Repair
	Bridge Connections
	Create <u>S</u> hortcut
	Delete
	Rena <u>m</u> e
	P <u>r</u> operties

Figure 3-24

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

🕂 Wireless Network Connection Properties 🛛 🔹 🔀		
General Wireless Networks Advanced		
Connect using:		
IP-LINK 11b/g Wireless Adapter		
This connection uses the following items:		
AEGIS Protocol (IEEE 802.1x) v3.4.3.0 Set Network Monitor Driver Set Internet Protocol (TCP/IP)		
Install Uninstall Properties		
Description		
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.		
 Show icon in notification area when connected Notify me when this connection has limited or no connectivity 		
OK Cancel		

Figure 3-25

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).

Internet Protocol (TCP/IP) Properties				
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
Obtain an IP address automatically	J			
Ose the following IP address:				
IP address:	192.168.0.101			
S <u>u</u> bnet mask:	255 . 255 . 255 . 0			
Default gateway:				
O Dtain DNS server address automatically				
• Use the following DNS server add	resses:			
Preferred DNS server:				
<u>A</u> lternate DNS server:				
Adyanced				
	OK Cancel			

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.

Address	192.168.0.10	*



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.

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

TP-L	NK			N		TL-PS110U Print Server
Status	Setup	Misc	Restart			
System F	Printer TO	P/IP				More
		plays the gene	eral system in	formation of th	ie print ser	ver.
System Inform	nation					
Print Server N System Conta System Locati	act:	1P_PrintSer	vFFEE10			
System Up Tir	me:	0:02:31				
Firmware Ver	sion:	9.08.47T 00	016 (2010/03	/22 17:47:37)		
MAC Address:	:	94-0C-6D-F	3-E6-05			
E-mail Alert:		Disabled				
Print Jobs						
Job	User	Elapsed Time	Protocol	Port	Status	Bytes Printed
						<u>View Job Loq</u>



- 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.

TP-LINK		TL-PS110U Network Print Server
Status	Misc Restart	
System TCP,	'IP	More
This setup	page allows you to configure TCP/IP setting	is of the print server.
TCP/IP Settings		
O Obtain TCP/IP s	ettings automatically (use DHCP/BOOTP)	
Ouse the following	g TCP/IP settings	
IP Address:	192.168.1.10	
Subnet Mask:	255.255.255.0	
Default Router:	0.0.0.0	
	Save & Restart	

Figure 3-30

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

- 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<X255, for 192.168.1.10 has been specified for your print server). Here we take 192.168.1.101 for example.</p>
 - 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.

Internet Protocol (TCP/IP) Properties				
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
O Obtain an IP address automatically				
O Use the following IP address:				
<u>I</u> P address:	192.168.1.101			
S <u>u</u> bnet mask:	255.255.255.0			
Default gateway:	192.168.1.1			
O <u>b</u> tain DNS server address autom	O Dbtain DNS server address automatically			
Ouse the following DNS server add Output	resses:			
Preferred DNS server:				
Alternate DNS server:	· · ·			
Ad <u>v</u> anced				
OK Cancel				

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 <u>3.4.1 If You Have</u> <u>Installed A Printer Before</u> to add a Standard TCP/IP port.
 - If you never install a printer on your computer, please refer to <u>3.4.2 If You Never Install A</u> <u>Printer Before</u> 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

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

Networ	k
Show All	Q
Location: TP-LINK ADSL Show: AirPort 2 AirPort TCP/IP PPPoE	AppleTalk Proxies
Configure IPv4: Manually	
IP Address: 192.168.0,101	1
Subnet Mask: 255.255.255.0	•
Router:	
DNS Servers:	
Search Domains:	(Optional)
IPv6 Address:	
Configure IPv6	(?)
Click the lock to prevent further changes.	Assist me 5 Apply Now

Figure 3-35

4. Open the Safari and log into the TL-PS110U. 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**.

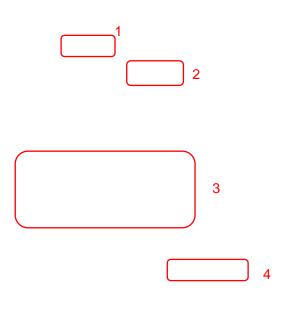


Figure 3-36

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**.

0 0	Network		
Show All		Q	
Location: Show:	TP-LINK ADSL AirPort	•	
AirPort TC	CP/IP PPPoE AppleTalk	Proxies	
Configure IPv4: Manual	lly	•	
IP Address: 192.16	8.1.101		
Subnet Mask: 255.25	5.255.0		
Router: 192.16	8.1.1		
DNS Servers:			
Search Domains:			(Optional)
IPv6 Address: fe80:000	00:0000:0000:0219:e3ff:feda	a:6b36	
Config	ure IPv6		?
Click the lock to prevent fur	ther changes. Assi	st me)	Apply Now

Figure 3-38

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



Figure 3-39

7. Click **Printing** and then \square .

Pr	Faxing Sharing
In Menu Printer	No printer is selected
	Print Queue Printer Setup
	nt Dialog: 🛛 Last Printer Used 🔷 🛟
Selected Printer in Prin	

Figure 3-40

 Select "IP Printer", and then configure the following parameters. Select "LPD" for Protocol, enter 192.168.1.10 for Address and Ip1 for Queue. Select your printer model from the list. Here takes EPSON Style Photo 720 for example. And then click Add.

00	Printer Browser	\bigcirc
Default Browser	IP Printer 1 Search	
Protocol: Address: Queue:	Line Printer Daemon – LPD 2 192.168.1.10 3 Valid and complete address. Ip1 4 Leave blank for default queue.	
Name:	192.168.1.10	
Location:		
Print Using:	EPSON 5	
	Model Image: Constraint of the second state of the second st	
?	More Printers	D

Figure 3-41

9. Till now you've installed the print server successfully and can print through the TL-PS110U.

Show All	Print & Fax	Q	
Printing	Faxing Sharin	g	
In Menu Printer v 192.168.11.10	Name: 192 Location: Kind: EPSC Status: Idle	.168.11.10 DN Stylus Photo 720 – Gimp-	
+ -	Print Queue	e Printer Setup	
Selected Printer in Print Dialo	g: Last Printer Us	ed 🛟	
Default Paper Size in Page Setu	p: A4	•	?
Click the lock to prevent further cha	inges.		

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.

<u>Section 3.4.1</u> 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.

<u>Section 3.4.2</u> 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.

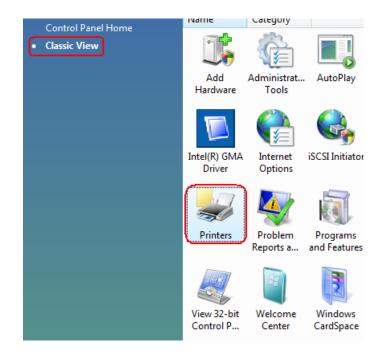


Figure 3-43

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

	7 EPSON Stylus Photo		
720-2b51		Open	
		Printing Preferences	
		Pause Printing	
		Sharing	
		Use Printer Offline	
		Refresh	
		Create Shortcut	
		Delete	
		Rename	
		Properties	

Figure 3-44

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

🖶 EPSON Stylus Photo 720-2b5122 Properties	Drinter Darte
	Printer Ports
Color Management Security Device Settings Utilities General Sharing Ports Advanced	Available port types:
General Sharing Ports Advanced 1 1 Image: Second Styles Photo 720-2b5122 Print to the following port(s). Documents will print to the first free	Local Port Standard TCP /IP Port
checked port. Port Description Printer 192.1 Standard TCP/IP Port	New Port Type 4 New Port Cancel
IP_1 Standard TCP/IP Port Enable Dott Configure Port Add Port Delete Port Configure Port 2 Enable bidirectional support Enable printer pooling OK Cancel	Add Standard TCP/IP Printer Port Wizard Welcome to the Add Standard CDP/IP Printer Port Wizard This wizard helps you add a port for a network printer. Before continuing be sure that: 1. The device is turned on. 2. The network is connected and configured.
	To continue, click Next. 5 Cancel

Figure 3-45

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

Add Standard TCP/IP Printer Port Wizard		
Add Port For which device do you want to add a port?		
Enter the Printer Name or IP address, and a port name for the desired device.		
Printer Name or IP Address: 192.168.0.10		
Port Name: 192.168.0.10_1		
< Back Next > Cancel		

Figure 3-46

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

Additional Por	IP Printer Port Wizard t Information Required could not be identified		
1. The device is	vice is of unknown type. Be sure that: property configured. on the previous page is correct.		
	Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.		
Device Type			
Standard	Generic Network Card		
Custom	Settings		
	< Back Next > Cancel		

Figure 3-47

6. Choose LPR, and input the queue name as Ip1. Click OK.

Configure Standard TCP/IP Port Monitor		
Port Settings		
Port Name:	192.168.0.10_1	
Printer Name or IP Address:	192.168.0.10	
Protocol	IPR	
Raw Settings Port Number: 192		
LPR Settings Queue Name: [p1]		
LPR Byte Counting Enabled		
SNMP Status Enabled		
Community Name: public		
SNMP Device Index: 1		
	OK Cancel	

Figure 3-48

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

Add Standard TCP/	IP Printer Port Wizard
	t Information Required could not be identified.
1. The device is p 2. The address of Either correct the	vice is of unknown type. Be sure that: properly configured. In the previous page is correct. address and perform another search on the network by returning to the age or select the device type if you are sure the address is correct.
Device Type	
Standard	Generic Network Card
Custom	Settings
	< Back Next > Cancel

Figure 3-49

Add Standard TCP/IP Printer Port Wizard		
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.	
	SNMP: Protocol: Device: Port Name: Adapter Type:	192.168.0.10_1
	To complete t	his wizard, click Finish.
< Back Finish Cancel		

Figure 3-50

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

Printer Ports	X
Available port types:	
Local Port	
Standard TCP/IP Port	
New Port Type	New Port Close
New Port Type	New Port Close



🖶 EPSON Styl	us Photo	720-2b5122	Properties		×
Color Manag General	_	Security Sharing	Devic Ports	e Settings A	Utilities dvanced
ef	EPSON Stylus Photo 720-2b5122				
checked por		rt(s). Documen		o the first free	
□ IP_1	Standard	TCP/IP Port TCP/IP Port TCP/IP Port	Printer		
LPR	Standard	TCP/IP Port TCP/IP Port	EPSON St	tylus Photo 72	
TYPS	Image: Standard TCP/IP Port XPS Local Port				
Add Po	ort	Delete	Port	Configu	re Port
Enable bidirectional support					
		ОК		Cancel	

Figure 3-52

9. Now, the printer port has been created.

3.4.2 If You Never Install A Printer Before

1. Click Star > Control Panel, and select Devices and Printers.



2. Click Add a printer.

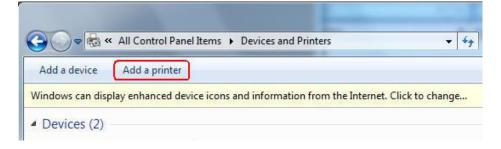


Figure 3-54

3. Select Add a local printer.

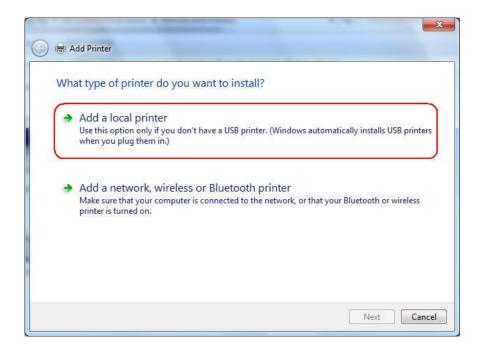


Figure 3-55

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

Choose a printer port		
A printer port is a type of con	nection that allows your computer to exchange	information with a printe
OUse an existing port:	LPT1: (Printer Port)	
Oreate a new port:		
Type of port:	Standard TCP/IP Port	
s		

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.

🖶 Add Printer		
Type a printer hostnan	ne or IP address	
Device type:	TCP/IP Device	
Hostname or IP address:	192.168.3.10	
Port name:	192.168.3.10_1	
Query the printer and auto	matically select the driver to use	
		Next Cancel

Figure 3-57

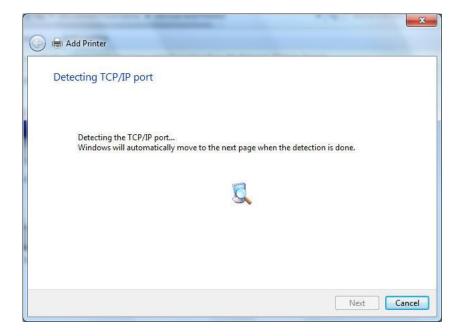


Figure 3-58

6. 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 **Ip1**.

Add Priviter	Fot Settings	
Additional port information required The device is not found on the network. Be sure that 1. The device is turned on. 2. The device is proper formation 2. The address is not connect and 3. The address is not connect, tack Back to return to the previous page. Then address and perform monthe search on the network. If you are sure the address is or advice type below. Device Type Standard Connect Network Card Standard Custom	Conset the LPR Settings Queue Name: LPR Byte Counting End DPR Byte Counting End SNMP Status Enabled Community Name	192168.3.10 192168.3.10 (* LPR 9005 191 194 194 194 194 194 194 194

Figure 3-59

7. 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.

Install the printer driv		(Windows Update to see more model)	5.
To install the driv	er from an installatio	n CD, click Have Disk.	
Manufacturer	* Printers		
HP	HP P	hotosmart 2600 series hotosmart 2700 series	
KONICA MINOLTA Kyocera	🖕 🛱 НР Р	hotosmart 3100 series hotosmart 3200 series	
This driver is digitally Tell me why driver sig		Windows Update	Have Disk

Figure 3-60

Add Printer			
Type a printer	name		
Printer name:	HP Photosmart 2700 series		
This printer will be	installed with the HP Photosmart 2	700 series driver.	
			Next Cance

Figure 3-61

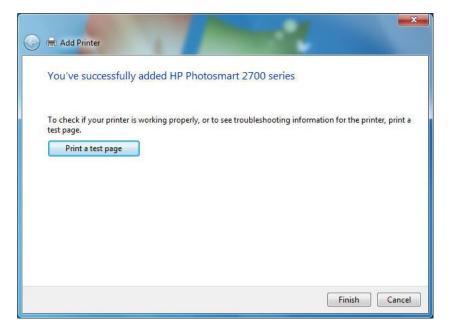


Figure 3-62

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

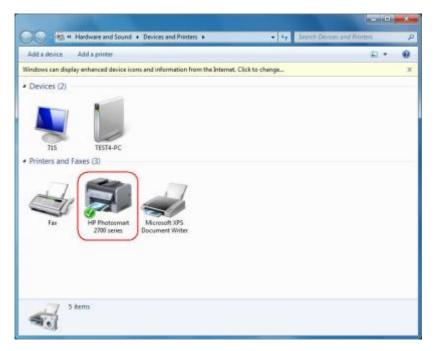


Figure 3-63

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.

Address	192.168.0.10	*

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.

TP-	LINK					TL-PS110U Print Server
Status	Setup	Misc	Restart			
System	Printer	TCP/IP				More
System Int		displays the ger	neral system in	nformation	of the print ser	rver.
System In	rormation					
Print Serve System Co System Lo	ontact:	1P_PrintS(ervFFEE10			
System Up	Time:	0:02:31				
Firmware	/ersion:	9.08.47T (016 (2010/03	8/22 17:47	:37)	
MAC Addre		94-0C-6D	-F3-E6-05			
E-mail Ale	t:	Disabled				
Print Jobs						
Job	User	Elapsed Time	Protocol	Port	Status	Bytes Printed
						<u>View Job Log</u>

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

ТР-	LINK			1	Network	TL-PS110U Print Server
Status	Setup	Misc	Restart			
System	Printer	TCP/IP				More
		e displays the ger	neral system i	nformation of t	he print se:	rver.
System In	formation					
Print Serve System Co System Lo	ontact:	1P_PrintSe	ervFFEE10			
System Up) Time:	0:02:31				
Firmware '	Version:	9.08.47T C	016 (2010/03	3/22 17:47:37))	
MAC Addr		94-0C-6D-	F3-E6-05			
E-mail Ale	rt:	Disabled				
Print Jobs						
Job	User	Elapsed Time	Protocol	Port	Status	Bytes Printed
						<u>View Job Log</u>

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.
- 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

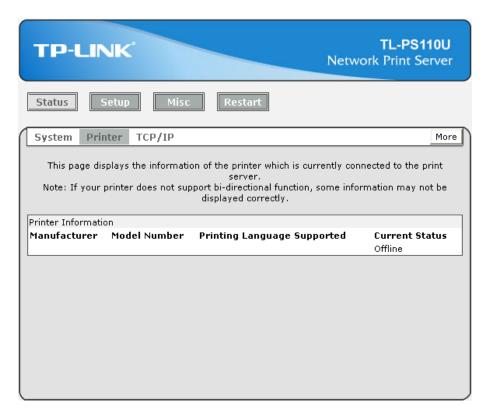


Figure 4-5

- 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

TP-LINK		TL-PS110U Network Print Server
Status Setup	Misc Restart	
System Printer TCF	/IP	More
	splays the current TCP/IP settings of	the print server.
TCP/IP Settings		
Use DHCP/BOOTP:	OFF	
IP Address:	192.168.0.10	
Subnet Mask:	255.255.255.0	
Gateway:	0.0.0.0	

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 he 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.

TP-LINK	TL-PS110U Network Print Server
Status Setup Misc	Restart
System TCP/IP	More
This setup page allows you to	configure general system settings of the print server.
E-mail Alert Settings	
E-mail Alert:	Disabled 🔽
SMTP Server IP Address:	0.0.0.0
Administrator E-mail Address:	
System Settings	
Print Server Name :	1P_PrintServFFEE10
System Contact :	
System Location :	
Administrator's Password	
Account :	admin
Password :	
Re-type Password :	
	Save & Restart

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-PS110U is produced with no password. (default user name is admin, it's not available to change)

4.3.2 TCP/IP

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

TP-LINK Netv	TL-PS110U vork Print Server					
Status Setup Misc Restart						
System TCP/IP	More					
This setup page allows you to configure TCP/IP settings of the print server.						
TCP/IP Settings						
TCP/IP Setungs						
C Obtain TCP/IP settings automatically (use DHCP/BOOTP)						
• Use the following TCP/IP settings						
IP Address: 192.168.0.10						
Subnet Mask: 255.255.255.0						
Default Router: 0.0.0.0						
Save & Restart						

Figure 4-8

- 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.

PNote:

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 Router: 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.

4.4 Misc

4.4.1 Factory Default

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

TP-LINK	TL-PS110U Network Print Server
Status Setup	Misc Restart
Factory Default	Firmware Upgrade
All current settings (grade to browse to your firmware directory and reload the print

Figure 4-9

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.

	TP-LINK				TL-PS110U Print Server		
	Status Setup	Misc	rt				
1	Factory Default	Firmware Upg	rade				
	This page allows you to upgrade the firmware of the print server. Note: please make sure the firmware is correct before you proceed. If you do not know which firmware file you should use, please contact your local dealer for technical support.						
	Firmware Upgrade						
	Select Firmware Directo	ry and File:		Browse			
		Firmware U	Jpgrade				

Figure 4-10

4.5 Restart

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

TP-LINK		TL-PS110U Network Print Server				
Status Setup	Misc					
Restart						
This page allows you to restart the print server.						
Restart The Print Server						
Do you wan	t to save settings and restart the ΟΚ	print server now ?				

Figure 4-11

Appendix A: How to Reset the Print Server

If you lose the connection with the TL-PS110U 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-PS110U;
- 2. Press and hold the **Reset** button on the TL-PS110U;
- 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 (Orange)

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.

PNote:

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; Orange: 10Mbps)

USB (Green: USB2.0; Orange: USB1.1)

Print server is being connected with USB printer.

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 USB port of the printer. Check to see if any of the pins on the USB 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 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 the 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:

 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 192.722.214.68 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. 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.