

USB 2.0 Print Server

FPS-1010

User's Manual

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Revision

User's Manual for PLANET USB 2.0 Print Server Model: FPS-1010 Rev: 1.0 (May. 2005) Part No. EM-FPS1010

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Chapter1 Introduction

1.1 **Product Introduction**

Thank you for purchasing and using our FPS-1010. This print server allows your printer to become a shared device on the network. It offers printing flexibility and manageability on your Local Area Network at an extremely low cost and with an absolute minimum setup and maintenance required.

1.2 Product Package

This package contains the following components:

- 1 x FPS-1010
- 1 x Power Adapter
- 1 x Driver and User's Manual CD
- 1 x Quick Installation Guide

1.3 Print Server Outlook & LED Indicators



LED	Status Description	
LAN	On: Indicates LAN port is connected.	
	Off: Indicates LAN port is not connected.	
ACT	Blink: Indicates print server is transfer data to printer.	
READY	Blink: Indicates the print server is during boot up.	
	Off: Indicates the print server boot up procedure is complete.	

1.4 Network Printing Architecture

This section illustrates how FPS-1010 functions and operates on the network. Before you install and use FPS-1010, it is strongly suggested that you read this section completely, and select only the chapters you need according to your network operating system by "Contents of the User's Manual" in next section.

This section will first introduce the role every component plays in the network-printing environment.

Print Server

Client User

Network Server (optional)

Network Printing Environment



Detailed examples will then be illustrated through actual network environment.

1.4.1 Print Server Network Functions



Because print server supports IPX, TCP/IP and AppleTalk network protocols, any networked computer can directly print to the print server from any of its installed protocol.



1.4.2 Network Printing Functions for Clients



Common operating systems for clients are classified as following:

Windows 95/98/Me/NT/2000/XP

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows 95/98/NT/2000/XP users. PTPP (Peer-to-Peer Printing) supports TCP/IP protocol.



In the client installation procedure, after PTPP (Peer-to-Peer Printing Driver) is installed into Windows, the system will automatically (manual configuration is also allowed) search through all the print servers on the network, and then add their printing ports into Windows' printing port. (See below)



UNIX / Linux

UNIX (include HP/UX, SCO Unix, SunOS, Solaris, Unixware DECUnix, IBM AIX and others) and Linux use the system-standard LPR to print to print server.

MAC OS

MAC OS can use the system-standard AppleTalk network to print to print server.

1.4.3 Network Printing Functions for Network Server



Common network servers are classified as following:

Windows NT/2000

Our print server system provides PTPP (Peer-to-Peer Printing) driver and utilities for Windows NT/2000. After PTPP is installed, the server can directly print to print server. Adding this printing function into Windows NT/2000 Server allows print queue, user authority management, and many other advanced features.

NetWare 3.x/4.x/5.x

In NetWare environment, print server offers various printing modes like print queue, remote printer, etc.

1.5 Network Printing Environment

Common network environment are classified as following:

Windows Peer-to-Peer Network

The client's PTPP driver will use TCP/IP protocol to print to print server.



Windows NT/2000 Network

Network printing function will become available after PTPP driver is installed into Windows NT/2000. Adding this printing function into Windows NT/2000 Server allows print queue, user authority management, and many other advanced features.



1.6 Contents of the User's Manual

Chapter 2 explains print server's hardware installation and configuration. It is strongly recommended for you to read.

The following chapters 3, 4, 5, and 6 introduces:

Chapter 3. Windows Peer-to-Peer Network

- Chapter 4. Windows NT/2000 Server-Based Network
- Chapter 5. NetWare Network

Chapter 6. UNIX System Network

You may select the appropriate chapters and sections to read depending on your network printing's requirement.

Chapter 7 and chapter 8 introduce print server's management and configuration utilities on Windows and Web Browser's environment respectively. You may select the appropriate management utility according to the administrator's computer platform.

Chapter 9 introduces Print Server's IPP Printing function and setup procedure. The IPP Printing provides a convenient way to print documents across the Internet by the IPP protocol.

1.7 Firmware & Printing Function

The print server provides a complete network printing solution. The feature set is listed below:

PTPP (Peer-to-Peer-Printing) TCP/IP (LPR, SMB, Standard TCP/IP built-in Win2000/XP/Server2003) IPP Printing NetWare Bindery Printing AppleTalk

Chapter2 Hardware Installation

- 1. Make sure the power is OFF, then connect printer to the Print Server's printer port.
- 2. Connect the LAN cable to the RJ-45 port of the Print Server.
- 3. Connect the other end of the LAN cable to a switch or your PC directly.
- 4. Connect the supplied Power Adapter.
- 5. Please make sure the LAN LED is light on.

NOTE1: MUST use the power adapter shipped with the print server, do NOT use any other power adapter from any sources.

- NOTE2: To prevent the compatibility problem between print server and a few printer, it is recommended that you power on the print server before the printer.
- NOTE3: Please be sure your printer is not a host-base printer. This kind of printer must be connected to a PC directly, so they cannot work with Print Server. You may check the printer specification or the GDI Printer List in our bundle CD to know this printer can work with FPS-1010 or not.

Chapter3 Windows Peer-to-Peer Network

3.1 System Architecture

Print server supports Windows Peer-to-Peer network printing mode, which is suitable for most medium and small network environments. Through quick and simple installation procedure, users can immediately enjoy the convenience of network printing.



Installation procedure is separated into following two parts:

1. Administrator Installation and Setup (refer to section 2 for more detailed information).

System administrators must:

- Install administrator's utilities into his/her computer.
- Configure print server from administrator's configuration utility.

2. Client Installation and Configuration (refer to section 3 for more detailed information). Client users must install Windows PTPP driver (Peer-to-Peer Printing) for network printing.

In addition, after PTPP is installed, the system will automatically search for all print servers on the network, and add the printing port of the print servers into Windows' printing port (refer to Network Printing Architecture in section 1.4 for more detailed information).

3.2 Administrator Installation and Setup

The Administrator Installation can be performed on Windows 95/98/Me/NT/2000/XP/Server2003 with the same user interface. Before the installation, please verify that your network protocol is installed on your PC (TCP/IP, IPX and/or NetBEUI). It will be helpful in your installation process.

1. Insert Drivers and User's Manual CD into the CD-ROM drive to initiate the autorun program. Once completed a menu screen will appear. 2. Click on "Administrator Installation" hyper link to initiate the installation. Or you can click the "Start" button and choose "Run". (Suppose "E" is your CD-ROM drive). When the dialog box appears, enter "E:\Utility\Setup.exe" and press enter key. You will see the dialog box as below. Please click "Next" to continue.

Welcome to the Print Server Utilities 3.6 Setup Program		
Image: Section 1.1 Image:		
Next > Cancel		

3. Specify the destination folder where the utility will be installed. Click "Next".

Choose Destination Loca	tion	×
	Setup will install PrintServer Utilities to the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. You can choose not to install PrintServer Utilities by selecting Cancel to exit the installation program.	
~~ <u>~</u>	Destination Folder C:\Program Files\PrintServer Utilities Browse	
	< <u>B</u> ack <u>Next</u> ≻ Cancel	

4. Select the components you want to install. It is highly recommended to install all provided components in administrator installation. Please click "Next".

Select Components	
	Select the components you want to install, clear the components Components Components Driver B44 K Description This section will install the PrintServer Windows Utilities
	Space Required: 2996 K Available: 2038252 K
	< <u>B</u> ack <u>N</u> ext > Cancel

5. Specify the program folder name where the program icons will be add to. Please click "Next" to start installation.

Select Program Folder		×
	Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing Folders list. Click Next to continue. Program Folders: PrintServer Utilities Existing Folders: Accessories Administrative Tools PLANET WL-U352 Startup	
	< <u>B</u> ack <u>N</u> ext > Cancel	

6. For a while, the program will finish installing utility and driver you selected. Thus far you have completed the installation phase and prepare to configure the Print Server. The "Choose Print Server" dialog box will be displayed as following. Please select the print server and click "Next".

Print server list: Choose print server PS031700	If this is your first Print Server installation, please note that the "Print Server Name" is the "Device Name" printed on the
	Bottom side of your Print Server.
	< <u>B</u> ack <u>N</u> ext > Cancel

7. "Name the print Server", you can assign an easy to memorize name for management. But note that, this name will be the "Identifier" for the Peer-to-Peer Printing.

Name the print se	rver:		×
Device name :	PS031700 The unique serial number ot the	print server	
Alias Name :	PS031700 An alternative name for easy ma	anagement	
	< <u>B</u> ack	<u>N</u> ext>	Cancel

NOTE: If this is the first time you configure the print server, the "Print Server Name" will be the same as the "Device Name" printed at the bottom of the print server.

8. You can either assign a fixed IP address for the print server or select "Don't change" for configure it later by the configuration utility. Please click "Next".

Network protocol configuration	×
C Assign the Print Server an IP	address
IP Address 192.168.2.2	
On't change	
You can configure later thro Administration Utility	ugh the Print Server
	Back Next > Cancel

 Configuration summary will display in this screen. Now, you have completed the "Print Server Setup". By clicking "Finish", your system will perform "Add network port" of the print server to your PC.

Add network port	X
Device Name : PS031700	- Click [Finish] to add your
Alias Name : PS031700	Print Server's Network Port to your PC
TCP/IP suppot : Enable]
IP Address : 192.168.2.2	
Port 1 : Jpt1]
Port 2 :]
Port 3 :	j
	< <u>B</u> ack Finish Cancel

10. The "Setup complete" window is displayed to indicate that the Administrator Installation procedure is finished. Please click "Finish".



After the installation, you have completed the following tasks,

- Install utility and driver to the administrator's PC
- Configure the print server (including the print server name and network protocol)
- Add the network port of the print server to the administrator's PC

Now, you have completed the administrator's setup for most of the network environment. You can then perform the "*Client Installation*" procedure (section 3.4) on all client's sides of the network.

If you want to print from this administrator's PC to the print server, all you need to do is to perform Windows' standard "Add Printer" procedure as described below.

- 🗆 🗵 **1** € Up X Cut Add Prin Address 🞯 Printers This wizard will help you to install your printer quickly easily. Printers 3 To begin installi 3 Add Prin HP Lase -⁴ HP DeskJet 895C Seri... Next > Cancel
- Step1. Click "*Start*" button, choose *Setting* => *Printers*
- Step2. Double click "Add New Printer"

Step3. Select "Local printer" => click "Next".

Add Printer Wizard	
	How is this printer attached to your computer? If it is directly attached to your computer, click Local Printer. If it is attached to another computer, click Network Printer Cocal printer Network printer
	< <u>B</u> ack Next> Cancel

Step4. Select a suitable printer manufacturer and model, then click "Next".

Add Printer Wizard Click the manufactur installation disk, click documentation for a	rer and model of your printer. If your printer came with an k Have Disk. If your printer is not listed, consult your printer compatible printer.
Manufacturers: Fuiltsu GCC Generic Gestetner Hermes HP IBM	Printers: HP LaserJet 55i Mopier PS HP LaserJet 6L PCL HP LaserJet 6MP HP LaserJet 6P HP LaserJet 6P/6MP - PostScript HP LaserJet III PS Cartridoe Have Disk
	< <u>B</u> ack Next > Cancel

Step5. Choose the "*Print Server's Network Port*" which was created by the administrator installation process and click "*Next*".

Add Printer Wizard	
	Click the port you want to use with this printer, and then click Next. Available ports: CDM1: Communications Port CDM2: Communications Port FILE: Creates a file on disk LPT1: ECP Printer Port MIS-1-P1 PrintServer Network Port PS305D49-P1 PrintServer Network Port Configure Port
	< <u>B</u> ack Next > Lancel

Step6. Complete the rest of the questions to finish the network printer setup.

3.3 Administrator Utilities

After Administrator Installation is completed, there will be four utilities in print server's Program folder.

1. Network Ports Quick Setup

Network Ports Quick Setup Utility offers a very simple method to add or remove FPS-1010's printer port from the client's computer.

If you have just installed another new FPS-1010 on the network, you must run this program first. This program will search for new FPS-1010 and allow you to add the new network printer port into client's computer conveniently. Perform the standard Add Printer procedure, and you can print directly to the printer through the newly installed print server.

<mark>≫</mark> Network Ports Quick Setup 3.0	X
Available Ports	Chosen Ports
FT3-P1 GM1-P1 GM2-P1 GM3_1-P1 MIS1-P1 MIL3-P2 MIL3-P1 MIL4-P2 PM-P1 PM-P2	> MTL2-P1 MTL2-P3 MTL4-P3 RD1-P1 OK Cancel
Refresh	Configure Port • Auto O IPX O TCPIP O NetBEUI Port Name : Ipt1

Please be aware that Network Ports Quick Setup Utility can only detect and configure all FPS-1010 on the same network, it cannot search and configure print servers on other subnets across network segments. You must use Remote Ports Utility described in the next section to manage remote (across network segments) FPS-1010.

2. Remote Ports

Remote Ports Utility offers a convenient way for you to manage and add printer port of the remote FPS-1010. From the assistant of this utility, you can print to other FPS-1010 outside the subnet across network segment. However, please note that this function only supports TCP/IP network protocol.

Please follow the procedures described below:

Step1. Run Remote Ports Utility

Remote port setup 3.0	×
Remote port list :	
	Add
	Delete
	Exit

Step2. Press Add, then enter the FPS-1010's name, IP address, select used ports, and enter LPR queue name of each port.

Create remote port	×
Print Server Name :	OK
IP Address :	Cancel
Port	
🗖 P1 🗖 P2 🗖 P3	

Step3. Press OK to add the remote printer port into your computer's printer ports.

Remote port setup	×
Remote port list:	
MIS-Remote-P1	Add
	Delete
	Exit

In order to use the remote printing function, you will have to proceed with normal Add Printer procedure and select your printer port as the newly added remote printer port.

3. Print Server Configuration

Complete print server management tool (see chapter 7 - Print Server Configuration).

4. Uninstall

Assistant for removing all installed administrator software.

3.4 Client Installation and Setup

The Client Installation can be performed on Windows 95/98/Me/NT/2000/XP and Serve2003 with the same user interface. Before the installation procedure, please confirm that your PC has connected to the network and installed at least one network protocol (such as TCP/IP or NetBEUI).

The installation is the same as Administrator Installation, besides the step 4. Please unselect "Utility" option and press "Next" to continue.

Select Components		×
	Select the components you want to install, clear the components Components Difficult Driver B04 K Description This selection will install the Windows Print Server Administration Utility.	
	Space Required: 2312K Available: 3005988 K	
	< Back Next > Cancel	

Clients just need to install Peer-To-Peer driver, so you don't need to install the Configuration Utility to the client PC.

Chapter4 Windows NT/2000 Network

4.1 System Architecture

In Windows network environment, other than the Peer-to-Peer network printing architecture described in the previous chapter, we also offer the Server-Based Printing architecture for Windows NT/2000 server. Only one Windows NT/2000 is required to have Windows PTPP (Peer-to-Peer Printing) driver installed and share the printing service on the network. Other network users can simply connect to the server and access the shared printer. (see below)



4.2 Windows NT/2000 Server Installation and Setup

Please follow the procedures described below for installation and construct a peer-to-peer connection (PTPP) between Windows NT/2000 Server and Print Server.



Step1.

If this is your first time installing print server, please install the administrator software on Windows NT/2000 server first. Refer to section 3.2 for installation instructions.

If your network has already installed a working print server and your Windows NT/2000 server has not yet installed the PTPP driver, please install the client software. Refer to section 3.4 for installation instructions.

Step2.

Please add/configure the Peer-to-Peer Printing of the Windows NT/2000 network printer and verify that you can print from Windows NT/2000 to the print server by the installed PTPP driver.

Step3.

Share the above server's printer to the network by performing the standard Windows printer sharing process.

4.3 User Installation and Setup



After server side's installation is completed, client side will be able to find the server's shared printer in Network Neighborhood. You only need to perform Window's standard **Add New Printer** procedure, select "**Network Printer**" shown in the screen below, and complete the configurations afterwards to access the shared printer.



Chapter5 NetWare Network

5.1 System Architecture

We implement NetWare print sharing functionality into the print server itself, thus allowing one or more printers attached by a print server to be connected to the network.

Embedded print server, which emulates the "queue management functionality" of NetWare print server, PSERVER program running on the NetWare server. A user first prints a job at a workstation, the job is routed to a NetWare server, the NetWare server stores the job in a print queue, then the print server gets the print job from the queue to printers.



Compare with NetWare printing functionality, the advantages of embedding the NetWare network printing functionality in the print server include:

- Installation is easier and quicker
- Network management is easier
- Printing performance is enhanced
- Relieve NetWare file server's burden
- Relieve the need of a workstation running the remote printer utility
- Improve productivity by locating the printer near the workgroup

Each print server should log into a NetWare server before servicing the print jobs. Each print server will occupy a user account with which it can log into the NetWare server.

5.2 NetWare 3.x/4.x/5.x Installation & Setup

Once your print server is connected to your Ethernet network, you can set it up for use with our configuration utility.

Please note that, you need to install the IPX protocol before the following procedure,

- 1. Run NetWare's PCONSOLE program to create a NetWare print server and print queue with the appropriate names.
- 2. Refer to section 7.7 and use print server configuration utility, to configure print server attach to NetWare server print queue. Print server will get the print job from the print queue and print.

5.2.1 Installation with Pconsole

- 1. Run the NetWare PCONSOLE program.
- 2. Change the current file server, if necessary, using the Change Current File Server menu selection.
- 3. Choose the Print Queue Information menu selection.
- 4. Press the Insert key to add a new print queue.
- 5. Type in a print queue name, such as "PQ" or "Q1".

NetWa	re Print Console V3.75 Friday July 31, 1998 5:14 User SUPERVISOR On File Server SERVER Connection 2
	<u></u>
	Print Queues
	vailable Options
	ge Current File Server
	New Print Queue Name: PS30100C_Q1_
L	

- 6. You have now successfully created the print queue that your print server will serve. Press the Escape key until the Available Options main menu is displayed.
- 7. Select Print Server Information.
- 8. Press the Insert key to add a new NetWare print server object. The print server name can be identical to the PSxxxxxx name printed on the label of the print server.

NetWar	Print Console U3.75 Friday July 31, 1998 5:15 User SUPERVISOR On File Server SERVER Connection 2
	Print Servers
	ge Current File Server t Queue Information
	New Print Server Name: P\$30100C

- 9. Press Enter to select the newly created print server.
- 10. Select Print Server Configuration.
- 11. Select Printer Configuration.
- 12. Select Printer 0 (or Printer 1, Printer 2), and press Enter, then select Parallel LPT1 (or LPT2, LPT3) in the Type field. If your print server is with only one port, you do not need to configure this Type field.

N	letWare Pi	rint Console 03.75 Friday July 31, User SUPERVISOR On File Server SERVER Connection 2	1998 5:17
	Co	Printer Ø configuration	
	Not In Not In	Name: Printer 0 Type: Parallel, LPT1 Use interrupts: Yes IRQ: 7 Buffer size in K: 3 Starting form: 0 Queue service mode: Minimize form changes within queues Baud rate: Data bits: Stop bits: Parity: Use X-On/X-Off:	on Menu iced ter

- 13. Press Escape, and answer Yes to the Save Changes question.
- 14. Select Queues Serviced by Printer, then select Printer 0 (or Printer 1, Printer 2) and press Enter.
- 15. Press *Insert* key and add your newly created print queue to the list of queues serviced by the printer. Enter a priority number for the queue service, or press Enter to accept the default.

NetWare	Print Console U User SUPER	13.75 UISOR On File Serve	Friday SERVER Connec	July 31, 1998 tion 2	8 5:19
F.			Print Server	Information	
-	File Server	Queue		Priority	enu
	Server	PS30100C_Q1		1	
Pwi					
		I INCOMPANIAL CONTRACTOR			

- 16. Repeatedly press Escape to exit the PCONSOLE program.
- 17. After setup the NetWare server. Please write down those settings and refer to section 7.7 to enter the settings of print server.
- **NOTE:** If the print server you have is with multiple printer connectors, you may create multiple print queues and printer objects.

Your print server should now be ready to use. You should be able to redirect printing to your print server using a CAPTURE command such as the one shown in the previous section.

Chapter6 UNIX System Network

6.1 Introduction

The print server is available for TCP/IP printing by Unix LPD (Line Printer Daemon) protocol. The LPD protocol originated with Unix release is based on the BSD version of Unix and supported under most versions of Unix.

This chapter explains how to configure the print server for TCP/IP operation, and how to modify configuration files on your Unix system to allow printing to the print server. The configuration examples in this manual follow the syntax for BSD based Unix systems. Please refer to the related system documentation for the correct syntax of your systems.

To configure the print server for LPD printing, perform the procedures below:

- 1. Enable Print Server's TCP/IP Support.
- 2. Set up Print Server's IP address.
- 3. Verify Print Server's IP Address.
- 4. Configure remote LPD printing on the host.
- 5. Print a test page.

In the next sections, we will describe these five procedures step by step.

6.2 Enable Print Server's TCP/IP Support

The default configuration of the print server is with TCP/IP support enabled. Anyway, you can configure the print server to enable TCP/IP support using the configuration program or PSETUP program in our CD-ROM included with the Print server.

6.3 Setup Print Server's IP Address

The print server must have a unique IP address in order to be recognized by the network. You can set up the IP address on the various Unix systems using any one of the following methods:

- 1. DHCP (Dynamic Host Configuration Protocol)
- 2. BOOTP (Bootstrap Protocol)

The print server will use the last three methods to obtain its IP address automatically if its IP address is configured as Auto (0.0.0.0).

6.3.1 DHCP

There are many Unix systems that support DHCP protocol, and the procedures to configure the DHCP server database are different. This manual does not describe the DHCP server configuration on the Unix systems. It is highly recommended that the DHCP server should be located on the same network as the print server.

6.3.2 BOOTP

If you have the BOOTP daemon, bootpd, running on your UNIX system that is accessible by the print server, you can use the BOOTP protocol to set up the IP address of the print server. We

recommend that the BOOTP server should be located on the same subnet as the print server. If you use Network Information Services (NIS) in your system, you may need to rebuild the NIS map with the BOOTP services before doing the following BOOTP configuration. To rebuild the NIS map, please refer to your system documentation.

To configure the IP address data for the BOOTP server, you will need to log in the host of BOOTP server as the superuser (root). Perform the following steps to add address entries.

1. Optionally, assign a name corresponding to the print server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

203.66.191.12 pserver

2. Add an entry to the host's /etc/bootptab file, similar to the following: hostname:\

:ht=1:\

:ha=print_server_ethernet_address:\

:ip=print_server_ip_address:

Lines should be indented with tabs.

Where hostname is the device name of a print server, the ht=1 tag specifies the hardware type is Ethernet, the ha= tag specifies the Ethernet address of a print server, which is the Node ID located on the print server. The ha tag must be preceded by the ht tag. The ip= tag should correspond to the IP address you want to assign to the print server.

For example, a print server with the following configuration:

Node ID: 00304f010101 (this implies Ethernet

address is 00304f010101),

IP address: 203.66.191.12

The entry for this print server in the /etc/bootptab file should be:

PS010101:\

:ht=1:\

:ha=00304f010101:\

:ip=203.66.191.12:

6.4 Verify Print Server's IP Address

To verify that your print server is responding to the newly assigned IP address using a PING command:

ping ip-address

6.5 Configure Remote LPD Printing on the Host

The procedure you use to configure your Unix host(s) to allow printing to your network remote print server varies between different varieties of Unix. The procedure below can be used for Unix variants that are related to BSD Unix, such as SunOS or Linux. For other versions of Unix, consult your system documentation, keeping in mind that:

- 1. The print server should be treated as a BSD networked print server host.
- 2. The host name should be the name (or IP address) that you have assigned to the print server.
- 3. The printer name (or queue name) on the remote host should be lpt1, lpt2 or lpt3, the name of the printer port on the print server.

You will need to perform the tasks below, logged in as the superuser (root). To configure your Unix host for printing,

1. Optionally, assign a name corresponding to the print server's IP address. You can add this address to the /etc/hosts file, by adding a line such as:

203.66.191.186 pserver

2. Create a spool directory for the printer in the same directory where spool directories are normally kept on the machine, such as /var/spool or /var/spool/LPD:

mkdir /var/spool/LPD/pserverd

chown daemon /var/spool/LPD/pserverd

chgrp daemon /var/spool/LPD/pserverd

chmod 775 /var/spool/LPD/pserverd

3. Add an entry to the host's /etc/printcap file, similar to the following: printer-name:\

:lp=:\

:rm=203.66.191.186:\

:rp=lpt1:\

:If=/var/spool/LPD/pserverd.log:\

:sd=/var/spool/LPD/pserverd:\

:mx#0:

Lines should be indented with tabs. More than one printer name can be used, with variants separated by vertical bars (name1|name2).

The rm= entry should correspond to the IP address you have assigned to the print server. You can also use a host name if you have assigned one in the /etc/hosts file.

The sd= entry should correspond to the spool directory you created in the previous step.

The rp= entry should correspond to the port name of the remote printer. The values should be one of lpt1, lpt2 or lpt3 depends on the printer port.

The print server should now be available for printing from your Unix host.

Chapter7 Configuration Utility

7.1 Introduction

This chapter introduces FPS-1010 system configuration utility in Windows environment. This utility is automatically installed during Windows Administrator Utility installation procedure - refer to section 3.2 and 3.3.

This utility provides the most complete management and configuration functions on FPS-1010. This utility only provides configuration functions for print server itself; it does not include configuration functions for client side or other file server or NetWare server in the network environment.

The Configuration Utility provides the following configuration and management functions:

Search Print Server: Search Available FPS-1010, FPS-1100DG and FPS-3120 on the Network

Print Server Status: Print Server Network Status

General Configuration: General Information of print server

TCP/IP Configuration: IP Address and DHCP Server Configuration

NetWare Configuration: NetWare Printing Configuration

AppleTalk Configuration: AppleTalk Protocol Setting

System Configuration: Print Server Network Ability Setting and Firmware Upgrade

SNMP Configuration: SNMP monitor configuration

Setup Wizard: Guide You Through All the Settings

Report: List the Status of All Available Print Servers on the Network

We will explain each function separately in the following section.

7.2 Search for All Available Print Server



Every time when you run print server's configuration utility, click the "Search" icon on the tool bar. The configuration utility will delay for several seconds because the utility is using system's available network protocols to search for all print servers on the network. All available print servers will be listed under "Print Server Group" on the left side of the window.

You must select the print server you would like to configure from the list. The system will, at the same time, display the selected print server's status on the right side of the window.

7.3 Status of Print Server

Print Server Manager3.8.18			
<u>File H</u> elp			
🔊 🚯 💱 🎸 🦄	v 🖗 🛛 🕲		
Print Server Group	Status	MAC ID : 00:30:4F:00:00:58	
ES000058	P\$000058	Print Port Print	
	Date Time	Message	
	5/25/2005 5:41:18 PM	Welcome !	
	5/25/2005 5:41:18 PM	Searching Please Wait !	
	5/25/2005 5:41:30 PM	1 print server found !	
	•		<u> </u>
			11.

Click "Status" icon on the tool bar, the status of the current selected print server will be showed on the right side of the window.

The information of the print server displayed are MAC ID, model type, firmware version, status of each printer port, NetWare file server name, NetWare file server polling interval, NetWare printer queue names, IP address, subnet mask, default gateway, AppleTalk printer type, AppleTalk zone and print server printing ability...etc.

You can refresh the print server's status by pressing the "Refresh" icon

You can restart the print server by pressing the "Reboot" icon



7.4 Setting up the Print Server

Print Server Manager3.8.16						- D ×
<u>File H</u> elp						
🔊 🚯 💱 🏈 🔌	V 🖗 🛛 🖏					
Print Server Group	Setup		\mathbf{X})	
PS031700		General	TCP/IP	NetWare	AppleTalk	
			Ş	₽ ₽ 1		
	PS031700	System	Wireless	SNMP		
		1				
	Date Time	Message				
	2005/5/10 下午 01:55:45	Welcome !	1			
	2005/5/10 下午 01:55:58	1 print server f	iease wait ! ound !			
		1 plan out of t	ound :			
	•	·				۱.

Click "Setup" icon on the tool bar, the setup items of the current selected print server will be showed on the right side of the window.

You can modify all settings of the print server here.

When you first time into one the configure options, system will ask you enter Password. The default Password are "1234".

Lo	ogin - PS031700	×
	User Name admin Password	
	Login Cancel	

7.5 General Configuration

General - PS0000	158	×
	General	
General Settings	Device Info Mac ID : 00:00:84:00:00:58 Type : 1P/8A Version: 7.2.20A Port No : 1	
	Print Server Name PS000058 SMB Group Name WORKGROUP	
🗖 Set User Na	ame/Password	
Use	r Name admin Password **** Retype Password ****	
	Save Cancel	

Double Click "General" icon and the General configuration window will pop-up.

You can see basic print server information in this page. You also can configure the "Print Server Name", "User Name" and "Password" here.

Printer Server Name: Name of the print server. You can use this name to identify the print server when you are searching for the print server by the administration and client utilities.

SMB Group Name: Name of your network. PCs can find this printserver in Network Neighbor and attach to this printserver as a Network Printer when they are in the same Workgroup

Set User Name / Password: You can change the Password as your mind. Before changed, it will keep use default value.

7.6 TCP/IP Configuration

TCP/IP - P5000058						×
	1	CCP/IP)			
TCP/IP Settings	C Auto ID	2 Olavia I				
K 1	IP Address:	• Static	168	99	39	1
	Subnet Mask:	255	255	255	0	
	Gateway:	0	0	0	0	
						-
				Save		Cancel

Double Click "TCP/IP" icon and the TCP/IP configuration window will pop-up.

If there is a DHCP Server in your LAN. You can configure the print server to automatically obtain an IP address from DHCP server. Or you can manually specify a static IP address to this print server.

If you need the print server to automatically obtain an IP address from LAN DHCP server, select "Auto IP". Or you can select "Specify IP" to manually assign "IP Address", "Subnet Mask" and "Gateway" for the print server.

7.7 Netware Configuration

N	etware - P5000058		×
		NetWare	
	Netware Settings		
		Polling Time 3 (Sec.)	
	File Server to be servi	ed Netware Server	
		Sa	ve Cancel

Double Click "NetWare" icon and the NetWare configuration window will pop-up.

This print server supports NetWare Bindery Printing method. The print server periodically polls the NetWare server printer queues for printing jobs. You have to assign the NetWare server name, print server polling interval and the name of queue on the NetWare server for each printer port.

Polling Time is the polling interval of the print server for waiting printing jobs on the NetWare server. Default is 3 seconds.

NetWare Server is the name of the NetWare file server that provides printer queues.

7.8 AppleTalk Configuration

A	ppletalk - PS00005	В		×
		AppleTalk		
[AppleTalk Settings			
	-			
	- (Zone Name ×		-
	- 🥭	Zone Hand		
[Printer Type			
		Port 1: LaserWriter		
		Port 2: LaserWriter		
		Port 3: LaserWriter		
			Save	Cancel

Double Click "AppleTalk" icon and the AppleTalk configuration window will pop-up.

AppleTalk is a data communication protocol often used by Macintoshes. The print server can use these parameters to join the AppleTalk network and share the printer to other AppleTalk workstations. You have to setup the "Zone Name" and "Printer Type" for each printer port of this print server.

Zone Name: Print server has to join zones of AppleTalk before it can be shared to other workstations. Only workstations in the same zone can share the printer. If you want to share the printer to all workstations in all Zones, you should enter only "*" in the "Zone Name" field.

Printer Type, the type of printer attached to each printer port. You can get the printer type from the manufacturer of the printer.

7.9 System Configuration

System - P5000058		×
	System	
System Settings	 Enable Appletalk Printing Enable Rendezvous Print Enable LPR Printing Enable Netware Binary Printing Enable TCP RAW Printing Enable IPP Printing 	
	Enable SMB Enable SNMP Enable NetBEUI	
Update	Upgrade Restore	
	Save	

Double Click "System" icon and the System configuration window will pop-up.

In the System configuration page, you can select to enable/disable each printing protocol, assign name for each printer port of this print server and upgrade the new firmware for this print server.

Upgrade Firmware: You can use this "Upgrade" tool to update the newest firmware of the print

server. Click button and select the correct firmware in you PC's storage. After selecting the firmware file, click the "Upgrade" button and wait for finish the firmware update process. If you want to reset the Print Server to default factory settings, please click "Restore".

7.10 SNMP

Double Click "SNMP" icon and the SNMP configuration window will pop up.

SNMP - P5000058		×
	SNMP	
SNMP		
	Contact	
	Save	Cancel

- **Contact:** You can enter the print server administrator's contact information here. This information will be displayed in the SNMP management tool.
- Location: You can enter the installed location of the print server here. This information will be displayed in the SNMP management tool.

7.11 Wizard

Print Server Manager3.8.18			
<u>File H</u> elp			
🔊 🚯 🖓 🏈 🔌	V 🔊 🛛 🔊		
Print Server Group	Wizard		
PS000058		Print Server Setup Wizard	
	Date Time 5/25/2005 5:41:18 PM 5/25/2005 5:41:30 PM	Message Searching Please Wait ! 1 print server found !	^
	5/25/2005 5:44:24 PM 5/25/2005 5:46:54 PM	Verification Successful Searching Please Wait I	
	5/25/2005 5:47:06 PM	1 print server found !	
	•		

Click "Wizard" icon on the tool bar, the setup wizard item of the current selected print server will be showed on the right side of the window.

Double click the "Print Server Wizard", the setup wizard will guide you through all the setup process from next page.

Step 1: Setup the Print Server Name and SMB Group Name of this print server and the name of each printer port. Please refer to section 7.5 and 7.9 for detail information.

Wizard - P5000058		X
General Setting	S	
	Print Server Name PS000058	
	SMB Group Name WORKGROUP	
	Cancel Next >>	

Step 2: Select to enable required printing protocol. Please refer to section 7.9 for detail information.

Wizard - P5000058	×
	System Settings Enable Appletalk Printing Enable Rendezvous Printing Enable LPR Printing Enable Netware Binary Printing Enable TCP RAW Printing Enable IPP Printing Enable IPP Printing Enable SMB Enable SMB Enable SMMP Enable NetBEUL
<u>I</u>	<< Back Cancel Next >>

Step 3: Setup the NetWare printing. Please refer to section 7.7 for detail information.

Wizard - PS00	0058
Netware \$	Settings
	Polling Time 3 (Sec)
	Queue Serviced By Printer
	Port 1 :
	Port 2 :
	Port 3 :
	File Server to be serviced
	Netware Server
	<< Back Cancel Next >>

Step 4: Setup the AppleTalk printing. Please refer to section 7.8 for detail information.

Wizard - P5000058	3	X
AppleTalk S	ettings	
	Zone Name *	
	Printer Type Port 1 : Port 2 : Port 3 :	
	Cancel Next >>	

Step 5. Setup Status Summary. This screen will show you the total settings of this print server. If those settings are correct, please press "Set" for next step to save the settings or press "Cancel" or "<<Back" button to modify the settings as you need.

Setup Status Summary Print Server Name: PS000058 Port Name: Port1: Port2: Port2: Port3: Port3: AppleTalk Zone Name: * Printer Type: Port1: Port2: Port2: Port1: Port2: Port2: Port1: Port2: Port2: Port2: Port2: Port2: Port2: Port2: Port2: Port2: Port2: Port3: Port3:	Print Protocol AppleTalk : Enable Rendezvous : Not Support LPR : Disable NetWare : Enable TCP RAW : Disable IPP : Disable SMB : Enable SMMP : Disable NetBEUI Enable NetBEUI Enable	
--	---	--

Step 6. Please press "Yes" to save the settings.



7.12 Report

Device Name	MACID	Model Type	Version	Status
PS000058	00:30:4F:00:00:58	1P/8A	7.2.20A	
4				
•				

Click "Report" icon icon on the tool bar, the Report window will pop-up.

The report list basic information of all available print servers on the network. The information includes Device Name, MAC ID, Model Type, Firmware Version and Status of print server.

Chapter8 Web Management

8.1 Introduction

Print server can be configured and managed on the web browser. Through Local Area Network, or even Internet when this print server has an legal IP address. Administrator can easily configure and manage print server's various main functions in web browsers. Simply enter print server's IP address into your browser's address field to manage a print server by print server's built-in Web Server.

8.2 Web Management of Print Server

8.2.1 Login

You may use any Web Browser to review the status or configure the settings of the print server. After entering the IP address of the print server, a login dialog box display. You have to enter correct "User Name" and "Password" before going to the Web Management pages.

Notes: Please leave the User Name to empry, default password is "1234".

Enter Nets	vork Passwor	d	? ×
? >	Please type yo	our user name and password.	
۶J	Site:	192.168.0.1	
	Realm		
	<u>U</u> ser Name		
	<u>P</u> assword		
	\Box Save this p	password in your password list	
		OK Can	cel

8.3 Device Status

8.3.1 System

Device Setup Setup Wizard System Tools				
STATUS SYSTEM	This page displays the curr	ent system settings	of the print server.	
	System Information			
SYSTEM	Device Name :	PS000058	Raw Printing :	Enable
Drintor	Printer Server Name :	PS000058	IPP Printing :	Enable
Filliter	Model Type :	1U Print Server	LPR Printing :	Enable
TCP/IP	Firmware Version :	7.2.20	AppleTalk Printing :	Enable
	MAC Address :	00:30:4F:00:00:58	NetWare Printing :	Enable
SMB	USB Port Number :	1	SMB :	Enable
SNMP	LPT Port Number :	No	SNMP :	Enable
NetWare	Wireless Lan Status :	No	NetBEUI :	Enable
AppleTalk				

In this page, it will show you all the system information such as "Device Name", "Print Server Name", "Model Type", "Firmware Version", "MAC Address" and other information.

8.3.2 Printer

Device Setup S	<u>Device Setup Setup Wizard System Tools</u>	
STATUS TCP/IP	This page displays the current TCP/IP settings of the print server.	
	TCP/IP Settings	
SYSTEM	Use DHCP/BOOTP: Off	
Printer	IP Address: 192.168.99.39	
	Subnet Mask: 255.255.255.0	
TCP/IP	Gateway: 0.0.0.0	
SMB	Use DHCP Server : Auto	
SNMP		
NetWare		
AppleTalk		

This page will display the information of printers connected to all printer ports.

8.3.3 TCP/IP

Print Server		
<u>Device Setup</u> <u>S</u>	etup Wizard <u>System Tools</u>	
STATUS TCP/IP	This page displays the current TCP/IP	settings of the print server.
	TCP/IP Settings	
SYSTEM	Use DHCP/BOOTP :	Off
Printer	IP Address :	192.168.99.39
	Subnet Mask :	255.255.255.0
TCP/IP	Gateway :	0.0.0.0
SMB	Use DHCP Server :	Auto
SNMP		
NetWare		
AppleTalk		

This page lists all TCP/IP Settings, include "IP Address", "Subnet Mask" and "Gateway".

8.3.4 SMB

Device Setup S	etup Wizard <u>System Tools</u>
STATUS SMB	This page displays the current SMB settings of the print server.
	SMB Settings
SYSTEM	SMB Group Name : WORKGROUP
Printer	
TCP/IP	
SMB	
SNMP	
NetWare	
AppleTalk	

This page will show the SMB Group Name.

8.3.5 SNMP

Device Setup S	etup Wizard System Tools
STATUS	This page displays the current SNMP settings of the print server.
	SNMP Settings
SYSTEM	SNMP System Contact : None
Printer	SNMP System Location : None
TCP/IP	
SMB	
SNMP	
NetWare	
AppleTalk	

This page will show the SNMP System Contact and SNMP System Location. If the settings are empty, this page will show you the settings "Disabled".

8.3.6 NetWare

Device Setup S	Device Setup Setup Wizard System Tools	
STATUS NetWare	This page displays the current NetWare settings of the print server.	
	General Settings	
SYSTEM	Polling Time: 3 seconds	
Printer	NetWare Bindery Settings	
	Use Bindery Mode: Enable	
TCP/IP	Name of the File Server: nw	
SMB	NetWare Port Settings	
	Port1 Attached Queue: Disconnected	
SNMP		
NetWare		
AppleTalk		

This page lists NetWare settings, include "Polling Time", "Use Bindery Mode", "Name of the File Server" and "Queue Name of each Port".

8.3.7 AppleTalk

Device Setup S	etup Wizard System Tools
STATUS AppleTalk	This page displays the current AppleTalk settings of the print server.
	AppleTalk Settings
SYSTEM	AppleTalk Zone Name:*
Printer	Printer 1
TCP/IP	Printer Type : LaserWriter
SMB	
SNMP	
NetWare	
AppleTalk	

This page lists AppleTalk settings, include "AppleTalk Zone Name" and "Printer Type of printers connected to all print ports".

8.4 Setup Wizard

8.4.1 System

<u>Device Setup</u> <u>S</u>	etup Wizard System Tools
SETUP SYSTEM	This Menu allows you to configure general system settings of the Print Server.
	Click "Save and Next" to continue.
SYSTEM	System Settings
STOLEM	Print server Name :
TCP/IP	Password :
SMB	Re-type Password :
SNMP	
NetWare	Save & Next
AppleTalk	
Save Settings	

You also can configure the "Print Server Name", "User Name" and "Password" here.

Printer Server Name, the name of the print server. You can use this name to identify the print server when you are searching for the print server by the administration and client utilities.

Port Name: The name of the printer port. Each printer port has to be assigned a name. The printserver driver uses this name to access the printer port.

8.4.1.1 Advanced Settings

Device Setup Setup Wizard System Tools	
SETUP SYSTEM	This page allows you to configure Advance settings for the Print Server.
	Click "Save and Next" to continue.
CVCTEM	System Configure
STATEM	IPX : Enable
Advanced Settings	TCP/IP Printing(LPR/IPP/RAW/SMB) : Enable
терир	NetBEUI: Disable -
	AppleTalk Printing: Disable
SMB	
SNMP	
NotMaro	Save & Next
netwale	
AppleTalk	
Save Settings	
sore second	

You can enable/disable the printing protocols from the screen. To enable the function, please select "Enabled"; to disable the function, please select "Disabled".

8.4.2 TCP/IP

Device Setup S	tetup Wizard System Tools
SETUP SYSTEM	This Menu allows you to configure TCP/IP settings for the Print Server.
	Click "Save and Next" to continue.
OVOTEM	TCP/IP Settings
STSIEM	C Enable Obtain TCP/IP settings automatically (use DHCP/BOOTP)
TCP/IP	O Disable Use the following TCP/IP settings
SMB	IP Address : 192.168.0.1
	Subnet Mask : 255.255.255.0
SNMP	Gateway : 192.168.0.254
NetWare	
AppleTalk	
Save Settings	
	Save & Next

You can configure the print server to automatically obtain an IP addddress from your LAN DHCP server or manually specify a static IP address.

If you need the print server to automatically get an IP from DHCP server, select "Enable Obtain TCP/IP settings automatically". Or you can select "Disable Use the following TCP/IP settings" to manually assign IP Address, Subnet Mask and Gateway for the print server.

8.4.3 SMB

Device Setup Setup Wizard System Tools	
SETUP SYSTEM	TThis page allows you to configure SMB settings for the Print Server.
	Click "Save and Next" to continue.
OVOTEM	SMB Configure
3131210	SMB Enable : Enable
TCP/IP	SMB Group Name : Workgroup
SMB	
SNMP	Save & Next
NetWare	
AppleTalk	
Save Settings	

You may Enable/Disable the SMB Printing protocl of this print server. When this setting enable, you have to enter the SMB Group Name, you should set this name as your network PCs assigned. Then the PCs can find this printserver in Network Neighbor and attach to this print server as a Network Printer.

8.4.4 SNMP

Device Setup Setup Wizard System Tools	
SETUP SYSTEM	TThis page allows you to configure SNMP settings for the Print Server.
	Click "Save and Next" to continue.
SYSTEM	SNMP Configure
	SNMP System Contact :
TCP/IP	SNMP System Location :
SMB	
SNMP	Save & Next
NetWare	
AppleTalk	
Save Settings	

This printserver has support SNMP protocol for users use SNMP management tool to monitor from a remote site. You can Enable this protocol and set the SNMP System Contact and SNMP System Location in this page.

SNMP System Contact: Text Field - Name of the contact person.

SNMP System Location: Text Field - Location of the contact person.

8.4.5 NetWare

Device Setup Setup Wizard System Tools	
SETUP SYSTEM	This Menu allows you to configure the NetWare function of the Print Server.
	Click "Save and Next" to continue.
SYSTEM	General Settings
51512101	Polling Time : 📃 seconds(min: 3, max: 29 seconds)
TCP/IP	NetWare Bindery Settings
SMB	Name of the File Server :
SNMP	
NetWare	Save & Next
AppleTalk	
Save Settings	

This print server supports NetWare Bindery Printing method. The print server periodically polls the NetWare server printer queues for printing jobs. You have to assign the NetWare server name, print server polling interval and the name of queue on the NetWare server for each printer port.

Polling Time: The polling interval of the print server for waiting printing jobs on the NetWare server.

Name of the File Server: Name of the NetWare file server that provides printer queues.

8.4.6 AppleTalk

Device Setup Setup Wizard System Tools	
SETUP SYSTEM	This page allows you to configure AppleTalk settings for the Print Server.
	Leave the settings boxes blank and Click "Save & Next" if you don't use the AppleTalk protocol.
SYSTEM	Apple Talk Settings
	AppleTalk Enable : Disable
TCP/IP	AppleTalk Zone Name :
SMB	Printer1
	Printer Type :
SNMP	Printer2
NetWare	Printer Type :
A	Printer3
Арріетаік	Printer Type :
Save Settings	
	Save & Next

AppleTalk is a data communication protocol often used by Macintoshes. The print server can use these parameters to join the AppleTalk network and share the printer to other AppleTalk workstations. When you select "Enable", you have to setup the "Zone Name" and "Printer Type" for each printer port of this print server.

Zone Name: Print server has to join zones of AppleTalk before it can be shared to other workstations. Only workstations in the same zone can share the printer. If you want to share the printer to all workstations in all Zones, you should enter only "*" in the "Zone Name" field.

Printer Type, the type of printer attached to each printer port. You can get the printer type from the manufacturer of the printer.

8.5 System Tools

8.5.1 Load Default

Device Setup §	Setup Wizard System Tools
SYSTEM Load Default	This menu allows you to restore the factory default settings.
Load Default	
Upgrade from Browser	Load Factory Defaults
	Are you sure you want to load factory defaults ?

You can restore print server to factory default settings in this screen. All of your previous configuration will be cleared.

8.5.2 Upgrade Firmware

Device Setup Setup Wizard System Tools	
SYSTEM	This Menu allows you to upgrade the firmware of the Print Server.
Upgrade	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.
Load Default	Firmware Upgrade
Upgrade from Browser	Select a File : Browse
	ок

You can upgrade new firmware for this print server in this screen. Click "Browse..." button to locate the new firmware and then click "OK", the firmware will be updated in several minutes.

Chapter9 IPP Printing

9.1 Introduction

IPP (Internet Printing Protocol) Printing provides a convenient way of remote printing service by TCP/IP. The print server can support IPP printing by default. It is needless to do any setting. Any PC that can support IPP printing, for example Windows 2000/XP, can directly uses the print server by IP. By using the IPP printing, you can share the printer to all the PC's that can access the print server by IP. You can even share your printer to Internet users.

9.2 System Setup

9.2.1 Print Server Side

It is needless to do any setting on the print server side. Make sure the print server has correct IP settings. If you want to share the printers to Internet users, you have to set a real IP to the print server. You also have to make sure that any gateway, router or firewall does not block IPP protocol if you have these gateway devices installed in your network.

9.2.2 Client Side

You only need to perform Window's standard **Add New Printer** procedure, select **"Network Printer"** shown in the screen below and 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:
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

Select "Connect to a printer on the Internet or on a home or office network" and enter the URL of print server. The URL format is "<u>http://IP/LPT_PORT:631</u>". The IP should be the print server's IP. LPT_PORT is the port name of print server that your print is connected to. For the one port print server, the port name is "lpt1". For the three port print server, the port name is one of the three – lpt1, lpt2 or lpt3. The last number 631 is IPP standard port number. One example of the URL is

"http://192.168.12.13/lpt1:631". After entering the URL of print server, click "Next >" and complete the configurations afterwards to access the shared printer.

Add Printer Wizard	
Specify a Printer If you don't know the name or address of the printer, you can search for a printer that meets your needs.	
What printer do you want to connect to?	
<u>Connect to this printer</u> (or to browse for a printer, select this option and click Next): Name:	
Example: \\server\printer Connect to a printer on the Internet or on a home or office network: URL: http://192.168.13.176:631	
Example: http://server/printers/myprinter/.printer	
< Back Next > Cancel	

Appendix A Specification

Model	FPS-1010
Printer Connector	1 * USB 2.0
Ethernet Connector	1 * 10/100Base-TX
LEDs	3; LAN, ACT, READY
Protocol Support	TCP/IP, NetBEUI, AppleTalk, HTTP, IPP, DHCP, LPR
Power Input	7.5V DC, 500mA
Cabling Type	10Base-T UTP Cat 3 or better
	100Base-TX UTP Cat5 or better
Network Speed	10/100Mbps_Half-Duplex_mode
	20/200Mbps, Full-Duplex mode
Dimention (L * W * H)	75 x 56 x 24 (mm)
Weight	45g
Environmental Specifications	Operating Temperature : 0~50 degree C
	Storage Temperature: -25 ~ 75 degree C
	Operating Humidity: 5~95%
	Storage Humidity: 5~95%
EMI	CE, FCC Class B
Remark	FPS-1010 do not support GDI interface printer