

Ethernet Print Server

Single Port 10Mbps Print Server



Installation Manual

PM1000IPNDS



Overview

Save precious time and space with the compact StarTech.com 1 Port 10 Mbps Print Server. No need for a printer-dedicated computer, this adapter will have your printer connected to your Network in about 5 minutes. Included in the package is installation management software to customize each server port to the printers' advanced features and abilities. The fast DMA driven parallel ports eliminate bottlenecks while the device features multiprotocol support for both Novell IPX/SPX and TCP/IP (including fixed IP address and DHCP).

Features

- Allows you to quickly and easily add printers to your network - can be installed in as little as 5 minutes.
- Includes installation management software to customize each server port to the printers' advanced features and abilities.
- Features flash EEPROM for quick and easy upgrades.
- Fast DMA driven parallel ports eliminate bottlenecks.
- Multiprotocol support for both Novell IPX/SPX and TCP/IP (including fixed IP address and DHCP).
- Compact size.

Getting Started

This section is designed to help you prepare the PM1000IPNDS for installation. Please read through this section carefully before attempting to install the print server.

Unpacking the PM1000IPNDS

This package should contain:

- 1 x Print server
- 1 x Power adapter
- 1 x Installation CD-ROM

Installation

Hardware Installation

1. Unpack the print server and verify that all the items listed in the previous sections are provided.
2. Connect the print server to the printer you want to share on the network.
 - For direct attach models, plug the print sever directly to the printer's centronics port.
 - For palmtop/desktop models, connect the printer to the print server with a standard printer cable.
 - Connect the power adapter to the print server.
3. The print server will perform the Power-On-Self Test (POST) after it is powered on. The Status LED will flash 6 times to indicate that the print server is ready.

Note: You must use the power adapter shipped along with the print server, do NOT use any other power adapter from other sources.

Administrator Installation and Setup

Network Printing Environment Introduction

The **Administrator Installation Program** executes a wizard-driven procedure which performs the following tasks:

1. **Install all necessary utilities and drivers** in your PC (including the client utilities).
2. Prompt to **setup the print server** (including the print server name and Network protocols).
3. **Add the network port** of the print server to your PC.

After the installation, perform the standard **"Add Printer"** procedure and choose the print server's "Network Port" in the "Available Ports" list. You can test printing from the Administrator's PC to the print server as your local printer.

Quick Installation and Setup

The Administrator Installation can be performed on Windows 95/98/Me/NT/2000 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 the CD shipped along with the print server into your CD-ROM drive. The Autorun.exe program should be executed automatically by Windows. If not run Autorun.exe manually from the CD-ROM drive's root directory.
2. The "Installation Manager" will be displayed on the screen.
3. Click "Administrator Installation" and the "Utilities Setup" window will be displayed.
4. Click "Next" and specify the destination folder where the utilities will be installed.
5. Click "Next" and select the components you want to install. It is highly recommended to install all provided components.
6. Click "Next" and specify the program folder where the program icons will be added to.
7. Click "Next" to start the installation.
8. In a while, the program will finish installing all the utilities and drivers you selected. Thus far you have completed the installation phase and are preparing to configure the Print Server. Click "Next" and the "Choose Print Server" dialogue box will be displayed.

Note: If this is the first time you are configuring the print server, the "Print Server Name" is the same as the "Device Name" printed at the rear side of the print server.

9. Click "Next" and the "Name the Print Server" dialogue box will be displayed. You can assign a meaningful name for the management consideration. But notice that, this name will be the "Identifier Name" for NetBEUI and IPX peer to peer printing.
10. Click "Next" to configure network protocol. In the system default, IPX and NetBEUI protocols are enabled and do not need to be configured (except the Print Server Name). About the TCP/IP, you can either (a) assign a dedicated IP address for the print server or (2) configure it later by the configuration utility. (If you choose "Do not change IP - configure later", there would be no effect on the network. It is suitable for both Non-IP and IP-enabled networks.)
11. Click "Next" and the configuration summary is displayed in the window. Now you

have completed the "Print Server Setup". By clicking "Next", your system will perform "Add network port" of the print server to your PC.

12. Finally, the "Installation complete" window is displayed to indicate that the Administrator Installation procedure is finished.

You have completed the administrator's setup for most of the network environment. You can then perform the "Client Installation" procedure on all client's sides of the network.

On the other hand, 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 bellow /

1. Click *Start* , choose *Setting, Printer*
2. Double click *Add New Printer*, select *local printer*, click *Next*.
3. Select a suitable printer manufacturer and model, the click *Next*.
4. Choose the *Print Server's Network Port* which was created by the administrator installation process and click *Next*.
5. Complete the rest of the questions to finish the network printer setup.

Client Installation and Setup

Introduction

The **Client Installation Program** executes a wizard-driven procedure which performs the following tasks:

1. **Install client utilities and drivers** in your PC
2. **Automatically add all Network Ports to you PC**

Note: Auto-detect/Auto-select network protocol.

The network port driver supports the network protocol auto-detection feature. It will automatically select an available network protocol (IPX, NetBEUI or TCP/IP) of the client computer to the print server.

Since both the print server's side and client's side support multi-protocols, the configuration process of the client side is fully automatic.

After the installation, you can perform the standard "add Printer" procedure to use the network printer.

Quick Installation and Setup

The Client Installation can be performed on Windows 95/98/Me/NT/2000 with the same user interface. Before the installation procedure, please confirm that your PC has been connected to the network and has at least on network protocol installed.

1. Insert the CD shipped along with the print server into your CD-ROM drive. The Autorun.exe program should be executed automatically by Windows. If not run Autorun.exe manually from the CD-ROM drive's root directory.
2. The "Installation Manager" will be displayed on the screen.
3. Click "Client Installation" and the "Utilities Setup" window will be displayed.
4. Click "Next" and specify the destination folder where the utilities will be installed.
5. Click "Next" and specify the program folder where the program icons will be added to.

6. Click "Next" to start the installation.
7. You have completed the installation process, and are now entering the setup process. Click "Continue" and all the print server's network ports detected on the network will be added to your PC.
8. Finally, the "Installation complete" window is displayed to indicate that the Client Installation procedure is finished.

You can now perform the Windows' standard "Add Printer" procedure as described below to add network printers to your PC.

1. Click *Start*, choose *Setting, Printer*
2. Double click *Add New Printer*, select *local printer*, click *Next*.
3. Select a suitable printer manufacturer and model, then click *Next*.
4. Choose the *Print Server's Network Port* which has been created in the client installation process and click *Next*.
5. Complete the rest of the questions to finish the network printer setup.

Setup NetWare Printing

Quick Setup for NetWare 3.x

1. Please confirm that you have completed the "Administrator Installation" procedure.
2. Log into your NetWare server as SUPERVISOR.
3. Execute **Start, Program, PrintServer Utilities, NetWare Quick Setup** to start the installation.
4. Select your new print server from the displayed list and press "Enter". The name listed will be the same as the Device Name printed on the label on your print server.
5. The quick installation program will create and setup related objects on the file server. A list of defaults will be displayed. If you need to change any of these items, use the arrow keys to choose the items you need to change, then press "Enter" to display a list of choices. When all of the values are correct, select the Continue Installation item and press "Enter".
6. The quick installation program will setup the print server, and when the setup is complete, it will also create a file called PRINTSIR.BAT that you can run after logging into the file server to redirect print commands to the new print server. A sample PRINTSIR.BAT file is shown below:

```
capture/S=III/Q=PRINTSIR_Q1/nt/nff/nb/1=1/ti=10
```

This redirects the LPT1 port (1=1) to the print queue PRINTSIR_Q1 on the file server named III. No banner page will be printed (/nb), no form feed will be added to the end of the job (/nff), and tabs will not be expanded into spaces (/nt). If the program does not explicitly signal end-of-job, the capture facility will wait 10 seconds (/ti=10) before assuming that the print job is complete,
7. Reset the print server to have the changes take effect.

Quick Setup for NetWare 4.x at NDS Mode

1. Please confirm that you have completed the "Administrator Installation" procedure.
2. Log into your NetWare server as ADMINISTRATOR.
3. Execute **Start, Program, PrintServer Utilities, NetWare Quick Setup** to start the installation.
4. Select your new print server from the displayed list and press "Enter". The name listed will be the same as the Device Name printed on the label on your print server.
5. The quick installation program will create and setup related objects on the network. A

list of defaults will be displayed. If you need to change any of these items, use the arrow keys to choose the items you need to change, then press "Enter" to display a list of choices. When all of the values are correct, select the Continue Installation item and press "Enter". The Current Tree and Current Context settings cannot be changed from within the Quick Installation program. If you need to change the tree or context where the print server will be installed, use the CX command to change them before starting installation.

6. The quick installation program will setup the print server, and when the setup is complete, it will also create a file called PRINTSIR.BAT that you can run after logging into the file server to redirect print commands to the new print server. A sample PRINTSIR.BAT file is shown below:

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capture/S=III/Q=PRINTSIR_Q1/nt/nff/nb/1=1/ti=10
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7. Reset the print server to have the changes take effect.