D-Link DP-301P+

Pocket Size Print Server

Manual

D-Link

Building Networks for People

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Package Contents

Contents of Package:

- **D-Link DP-301P+**
  Pocket Size Print Server
- Manual and Warranty on CD
- Printed *Quick Installation Guide*

If any of the above items are missing, please contact your reseller.

System Requirements:

- A computer with an installed Ethernet adapter
- Windows XP/2000/NT4/Me/98SE
- Apple Mac OS with AppleTalk
- Linux
- NetWare 5.x or above (Native NDS)
- Internet Explorer 6.0, or Netscape Navigator version 6.0 or above, with JavaScript enabled
- Printer must support required Operating System

Introduction

The D-Link DP-301P+ Print Server is a pocket size print server that connects to your Ethernet/Fast Ethernet network anywhere you wish to locate printer services. The DP-301P+ manages the flow of print files from workstations or file servers to connected printers, delivering print jobs to printers much faster than a file server or a PC acting as a print server.

The DP-301P+ includes easy-to-use software to install on most Windows-based networks. Protocol support for TCP/IP, NetBEUI, and AppleTalk are provided to ensure seamless connection to major networking operating systems.

The DP-301P+ has a built in Web-based management feature that allows users to easily configure and manage multiple print queues through TCP/IP. The DP-301P+ also supports Telnet as an alternative method to configure the unit.

The DP-301P+ improves network printing services in the following ways:

- The DP-301P+ manages print file traffic. This provides workload relief to your file servers, and allows the file servers' full capacity to be used for file access or other direct services to network users. On Peer-to-Peer networks, workstations can print directly to the print server without increasing the load of another workstation or server.

- Because the DP-301P+ is very portable and inexpensive compared to a PC-based print server, and the print server connects to your file servers through the network, printers can be deployed to locations of maximum convenience to users.

The DP-301P+ offers extraordinary flexibility, operating with all major network operating systems and protocols:

- **TCP/IP**

  UNIX lpr/lpd (HP-UX, Sun OS, Solaris, SCO, UnixWare, IBM AIX)
  Windows NT/2000, Windows 95/98SE/Me, Windows XP
  NetWare 5.x NDPS LPR Remote Printing

- **NetBEUI**

  Windows NT/2000/XP, Windows 95/98SE/Me, Windows for Workgroups, Microsoft LAN Manager, IBM LAN Server

- **AppleTalk**

  Mac OS EtherTalk

Windows-based setup and administration software, *PS Admin*, is supplied with the print server, making configuration and management quick and easy. The print server also supports configuration and management via the Telnet protocol for networks without Windows-compatible machines.

External Features

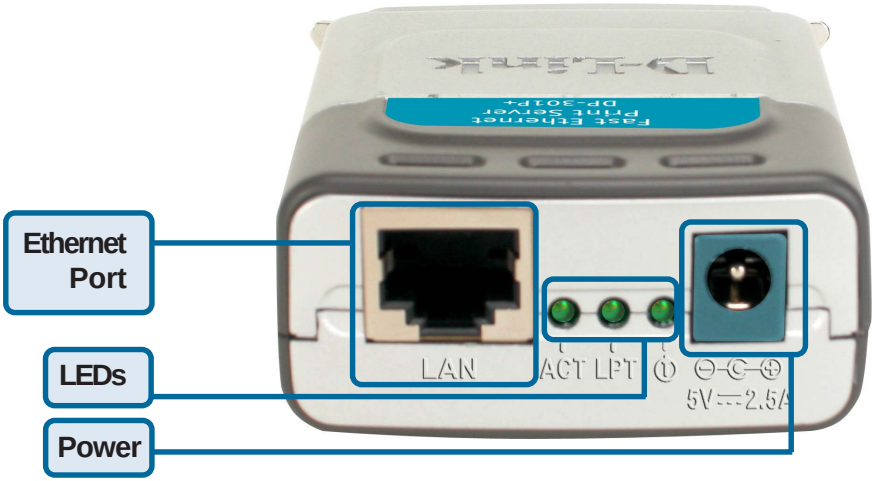
Port Connectors

The DP-301P+'s parallel port is located on its front panel. The port can be configured using the *PS Admin* program or the print server's Telnet interface. (See the *PS Admin User's Guide*, available on the CD that came with the DP-301P+, for information about configuring the print server's ports.) The print server also supports web configuration permitting users to configure settings through the web browser. The default IP address is as follows:

- Default IP address – 192.168.0.10
- Subnet mask – 255.255.255.0

Note:
The PC's IP address must be in the same subnet as the print server's IP address for the two devices to communicate. (For example, if your print server's IP address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP address should be 192.168.0.x, where x is a value between 1-254, excluding 10.)

Rear Panel



Ethernet Port - Network Cable Connector

The print server's rear panel features an RJ-45 connector for connection to 10Base-T Ethernet cabling or 100Base-TX Fast Ethernet cabling (which should be CAT5 twisted-pair cable). The port supports the NWay protocol, allowing the print server to automatically detect or negotiate the transmission speed of the network. Use this port to connect to your network router.

Power - DC Power Connector

The DC power input connector is located on the print server's rear panel .

LED Indicators

The back panel of the print server features three LED indicators:

ACT - Lights up to indicate activity on the network.

LPT - Lights up to indicate printing activity.

⏻ - Lights up to indicate that the DP-301P+ is powered ON.

Front Panel

Parallel Port Connector

The front panel of the print server features the parallel port connector. Plug this connector directly into the parallel port on your network printer. There is no need for a parallel port cable between the print server and your network printer.

Setting up the DP-301P+

Installing the Print Server

WARNING: *Configuration problems may result if the print server is powered up without first establishing its network connection. Follow this procedure to avoid complications at the configuration stage.*

1. Confirm proper operation of the printers to be connected to the DP-301P+.
2. When you have confirmed proper operation of the printer, switch its power
3. Confirm that your network is operating normally.
4. Connect the DP-301P+ RJ-45 Connector to the network, using an Ethernet CAT5 cable.
5. While the printer is powered **OFF**, install the DP-301P+ parallel port connector into the parallel port on the network printer.
6. Switch on the connected printer.
7. Plug the AC power adapter's DC output plug into the DC 5V power socket on the print server.
8. Plug the power adapter into a power outlet. This will supply power to the print server, as it has no external power switch. The green Power LED on the Print Server's front panel should illuminate steadily, and the Print Server's Self-Test will proceed.

Power ON Self-Test

Every DP-301P+ has been factory-tested to operate properly.

Whenever the DP-301P+ is powered up, two testing procedures follow automatically. The first procedure is a programmed series of flashes intended to confirm proper operation of the LED indicators. The second procedure comprises programmed tests of the DP-301P+'s internal circuitry. If any fault is found during the circuitry tests, testing stops and a continuous pattern of flashes signals the nature of the fault.

Indicator Test

Immediately upon power-up, the 1 (Power) and LPT indicators will illuminate steadily in green for several seconds. Then the LPT indicator will become dark while the 1 (Power) indicator remains steady. Irregularity of any indicator during this test indicates that there is a problem with the indicators themselves.

Circuit Tests

The circuit tests immediately follow the indicator test. A normal (no fault) result is signaled by three flashes of the LPT indicator and the start of normal print server operation. If any error condition is found during the circuit tests, testing will halt with the LPT indicator continuously signaling the particular error according to the following table:

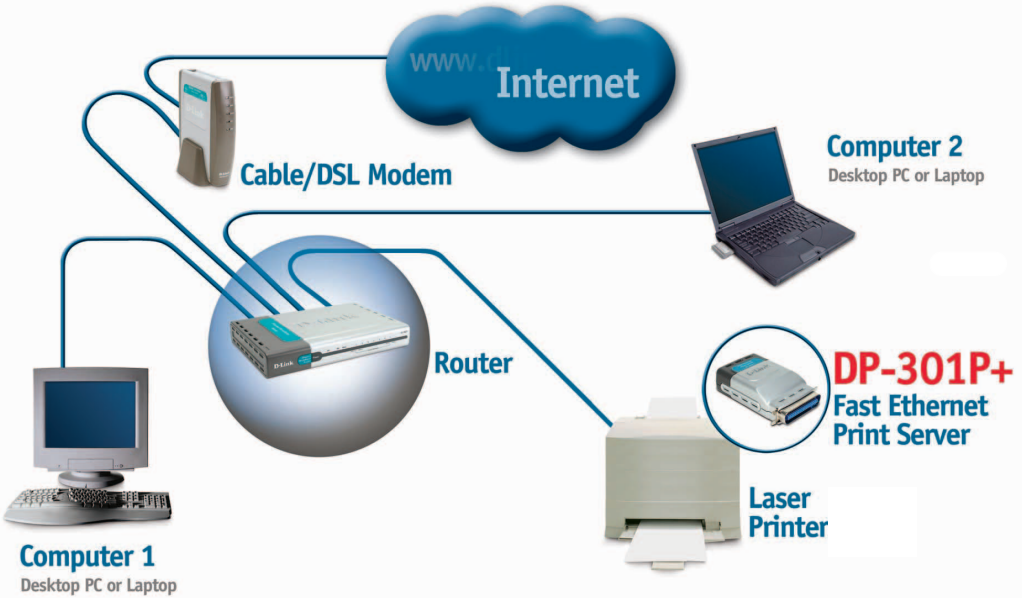
LPT LED Flash Pattern	Error Type
Steady long flashes	Firmware Reload Required
Continuously on	DRAM Error
One long, two short flashes	Timer INT error
One long, three short flashes	Flash Protected
One long, five short flashes	Flash Erase/Program error
One long, six short flashes	LAN Controller error
One long, eight short flashes	Parallel Controller Error
One long, nine short flashes	LPT Error
One long, fourteen short flashes	LAN PHY error

In the event of a Firmware Reload Required error at startup, proceed according to instructions given in the *PS Admin User's Guide* ("PS Admin Administration" section, under the heading "Upgrading the Print Server's Internal Firmware").

The *PS Admin* software includes a Print Test function for confirmation of print server connections and functions. This operational test can be performed after you have installed the *PS Admin* software and completed the *PS Admin* procedures for configuring the DP-301P+. See the instructions given in the *PS Admin Users Guide* ("Getting Started Setting up Your Print Server" section, under the heading "Testing your Print Server").

Getting Started

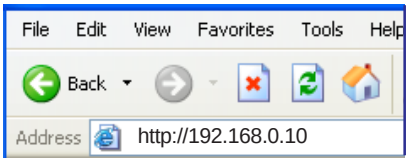
Below is a sample network using the DP-301P+. The DP-301P+ has a built-in Web-based management feature that allows users to easily configure and manage multiple print queues through TCP/IP.



*For a list of printers that are compatible with the DP-301P+, please see the **Appendix** in this manual. The compatibility list is not comprehensive. Even if it is not included in the list, your printer may be compatible with the DP-301P+.*

Using the Web Configuration

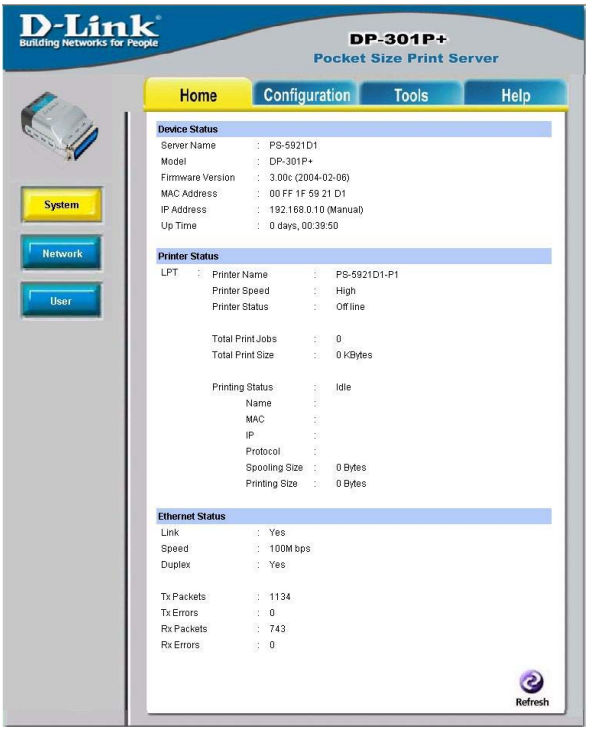
Open your web browser and type **http://192.168.0.10** in the address box, and press **Enter.** This set of numbers is the default IP address of your print server. ***Please note that the PC's IP address must correspond with the print server's IP address in the same segment for the two devices to communicate.***



Home > System

Device Status

This tab displays the system information, providing general information regarding the print server. Click on the **Refresh** button to acquire the most updated information. Once a printer is connected to the print server, the **Printer Status** will be displayed.



Server Name: The name assigned to the print server.

Model: The model of the print server.

Hardware Version: The version of the hardware on the print server.

Firmware Version: The version of the firmware and release date on the print server.

MAC Address: The MAC address of the Ethernet port.

IP Address: The IP address of the print server.

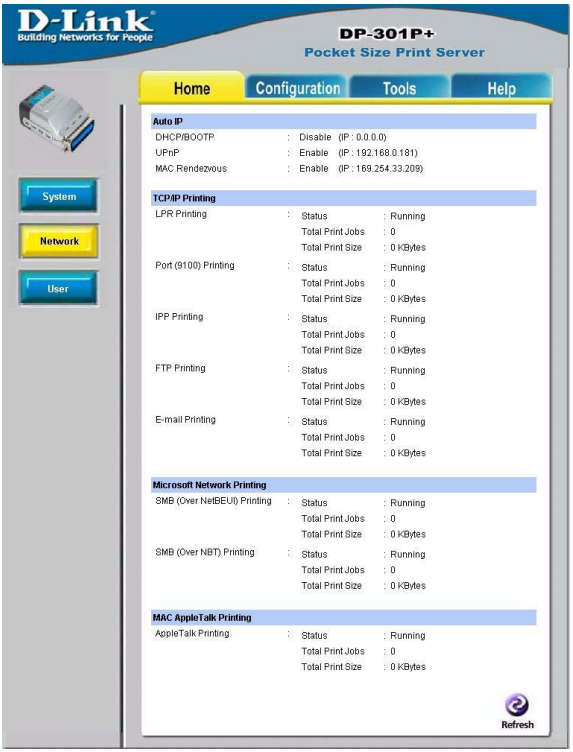
Up Time: The length of time the print server has been up.

This screen also displays information about the **Printer Status** and the **Ethernet Status**.

Using the Web Configuration (continued)

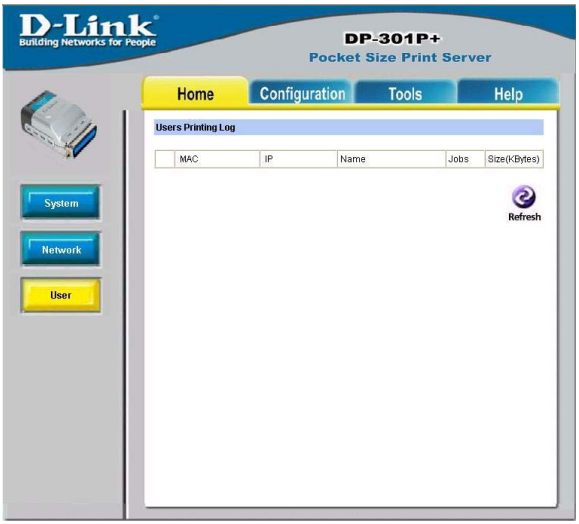
Home > Network

This screen contains information regarding **Auto IP**, **TCP/IP Printing**, **Microsoft Network Printing**, and **MAC AppleTalk Printing**.



Home > User

This screen displays the User's Printing Log.



Using the Web Configuration (continued)

Configuration > System

The **Configuration** window will display the settings required to configure the DP-301P+ Print Server. Consult your printer's manual for the PJL (Printer Job Language) and print speed supported on your printer. Click **Save** on the bottom of the configuration page to ensure the settings are updated and saved.

Server Name: The name assigned to the print server.

Location: Input a comment indicating where the print server is located. (optional)

Admin Contact: The name of the print server's administrator. (optional)

Password: By default the DP-301P+ does not have a password. For security, you may wish to enter a password.

Port Name: This is the assigned name for the parallel port.

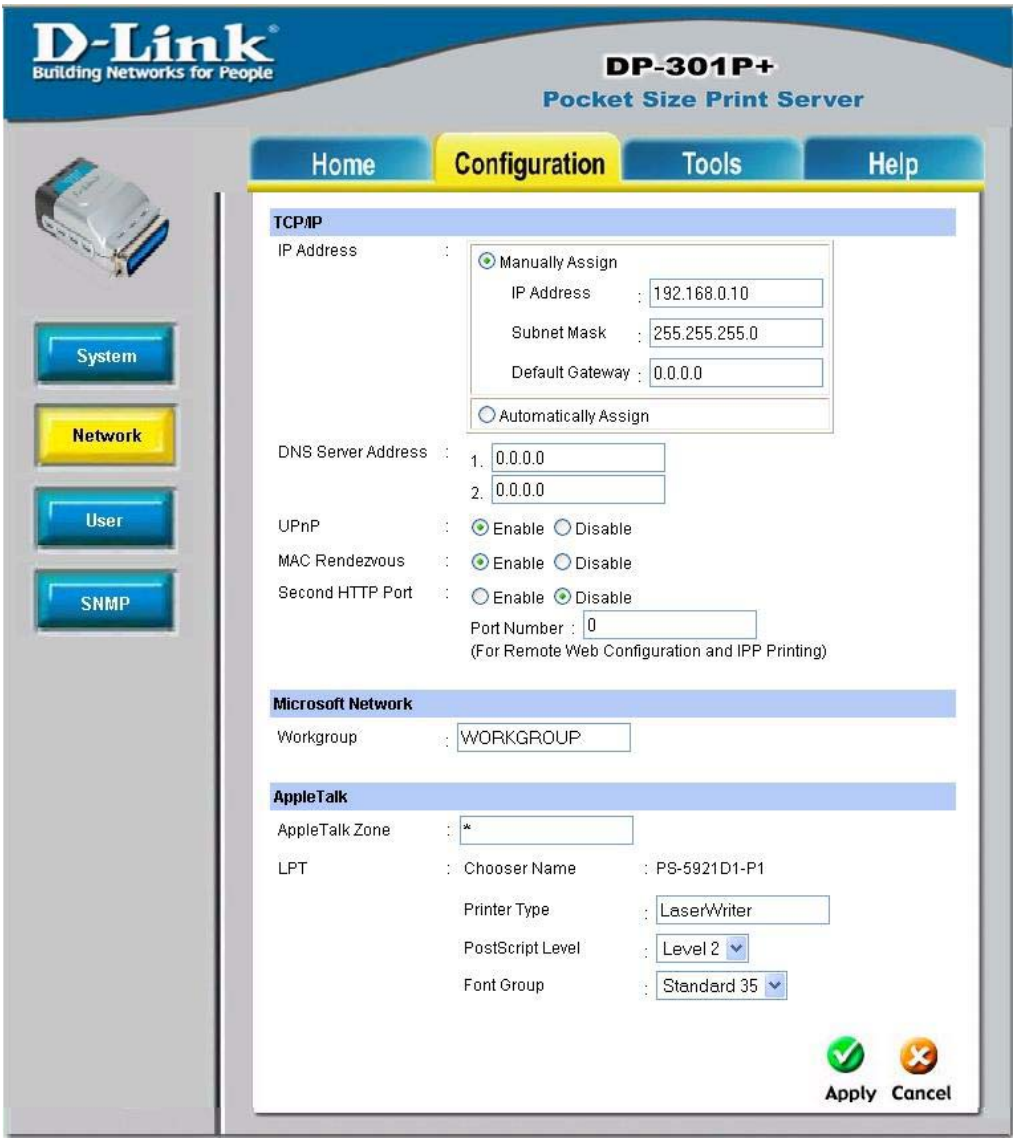
Description: A brief description for the parallel port. (optional)

Speed: Select high or low printer port speed.

PJL Printer: This feature is used to support the Hewlett-Packard PJL (Printer Job Language) standard for bi-directional printing.

Using the Web Configuration (continued)

Configuration > Network



Using the Web Configuration (continued)
Configuration > Network (continued)

TCP/IP Protocol

IP Address

Manually Assign: To manually assign an IP address please provide the following information:

IP Address: The default IP address is 192.168.0.10
Subnet Mask: The default subnet mask is 255.255.255.0
Default Gateway: Enter the IP address of the default gateway (router).

Automatically Assign: Select this option to receive an IP address automatically.

DNS Server Address: A Domain Name Server (DNS) translates a domain name into an IP address. Enter the IP address of the DNS server here.

UPnP: Enable UPnP (Universal Plug and Play) here. UPnP makes installation easier if all the communicating devices also have UPnP enabled.

MAC Rendevous: Select Enable for ease of use with Mac OS X computers.

Second HTTP Port: Select Enable and enter a Port Number for remote web configuration and IPP Printing. (IPP is a Web-based printer management)

Microsoft Network

Workgroup: Computers in the same network must have the same Workgroup name.

AppleTalk

AppleTalk Zone: Enter an asterisk.

LPT

Chooser Name: Enter the printer name.
Printer Type: Enter the printer type.
PostScript Level: Enter the PostScript level.
Font Group: Enter the font group.

Save: Click **Apply** to save the changes.

Using the Web Configuration (continued)

Configuration > User

Printing Control

Enable User Printing Control: To control access to the printer click **Enable**.

Define Users

Add User: Enter the **User Name**, the **MAC Address**, click **Yes** or **No** for **Printing Access** and then click **Add**.

User List: You can delete a user in the list by putting a check in the box to the left of the name and clicking **Delete**.

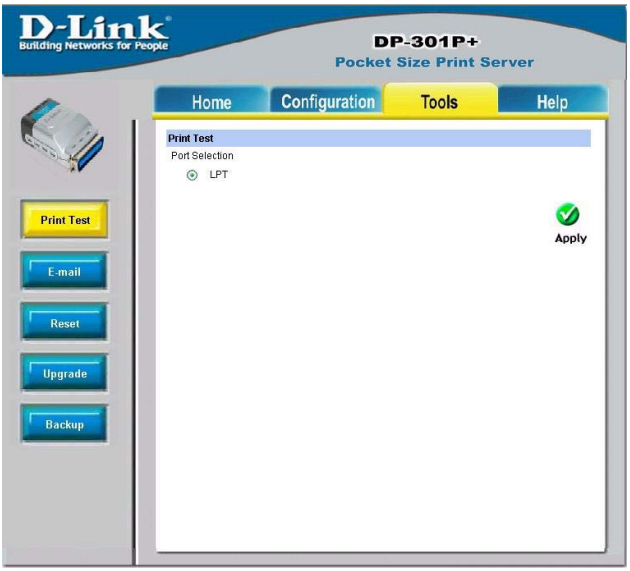
Using the Web Configuration (continued)

Configuration > SNMP

Configure your SNMP here.

Tools > Print Test

Click **Apply** to print a test page.



Using the Web Configuration (continued)

Tools > Email

Email Account: Configure the Print Server's email account here.

Email Notification: Click **Yes** to enable email notification for printer status change.

Test: Click **Test** to send an email to the Admin account.

Email printing: Click **Yes** to enable email printing. (only the text)

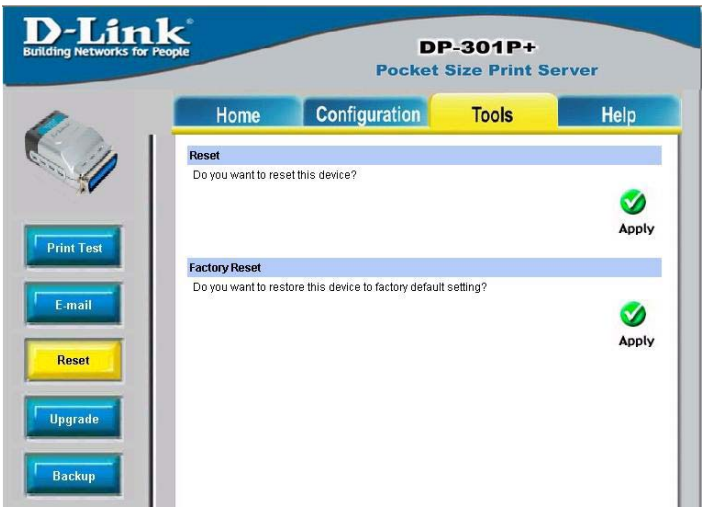
Receive email interval: Enter the length of time between emails here.

Receive: Click **Receive** to get emails and printouts.

Tools > Reset

Reset: Click **Apply** to reset the DP-301P+.

Factory Reset: Click **Apply** to reset the DP-301P+ to the factory default settings.



You will lose your current settings if you Reset the DP-301P+.

Using the Web Configuration (continued)

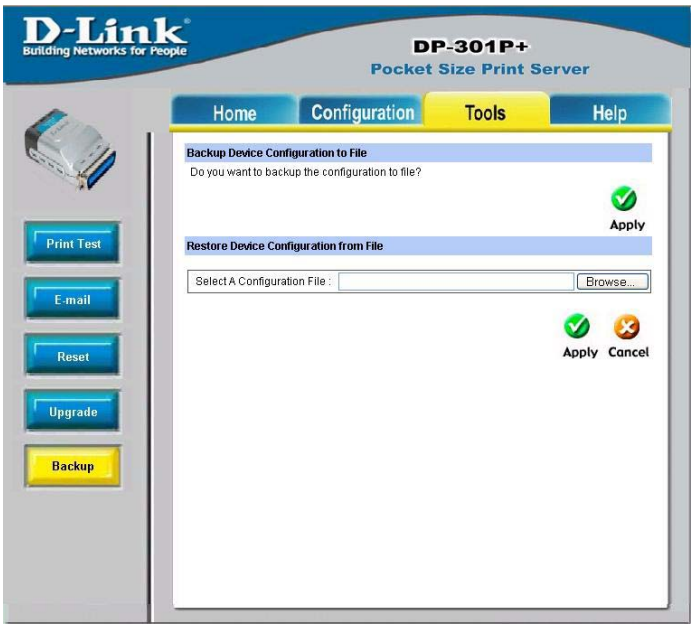
Tools > Upgrade

Firmware Upgrade: Visit the D-Link support site at http://support.dlink.com to find the latest firmware upgrade. Copy it to your hard drive.Then click Browse in this window to select the upgrade and click **Apply.** Your firmware upgrade is complete.

Tools > Backup

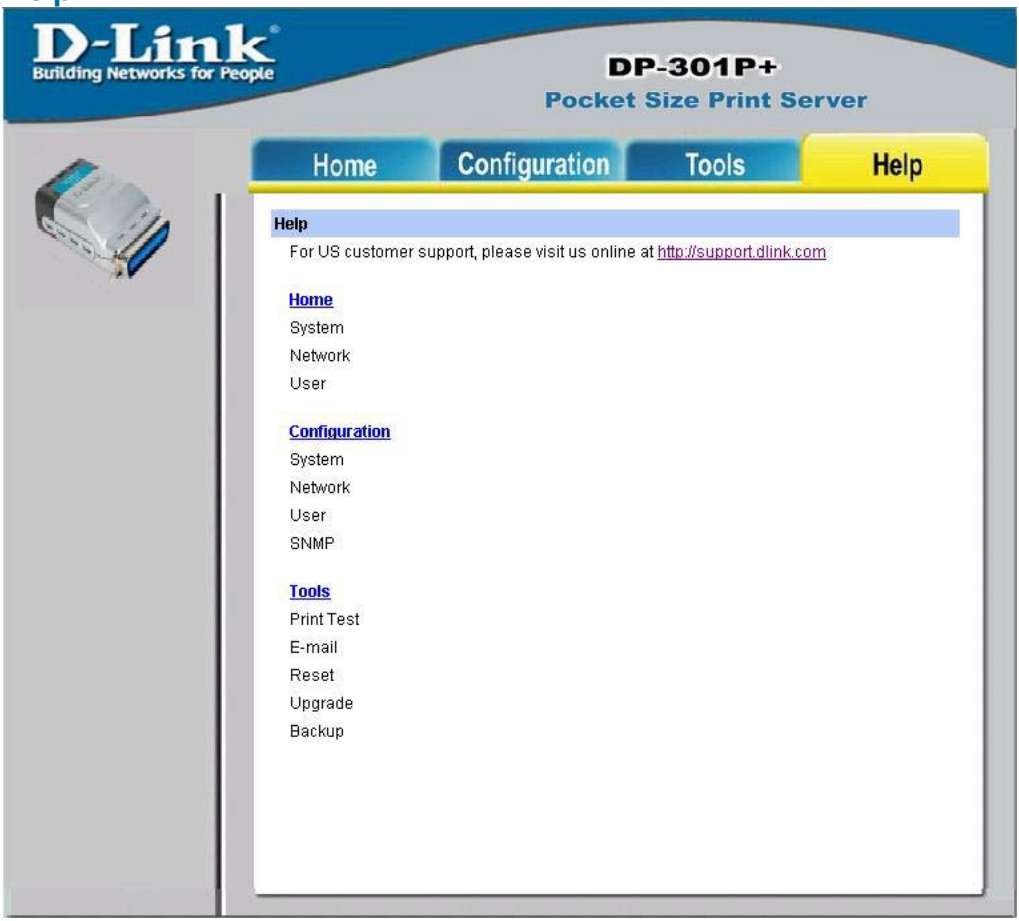
Backup Device Configuration to File: Click **Apply** to make a backup copy of your current configuration.

Restore Device Configuration from File: Click **Browse** to browse your hard drive for backup configuration files. After you have selected a file click **Apply**.



Using the Web Configuration (continued)

Help

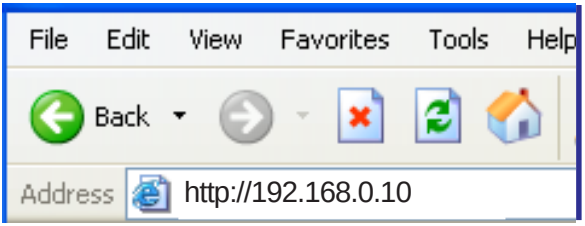


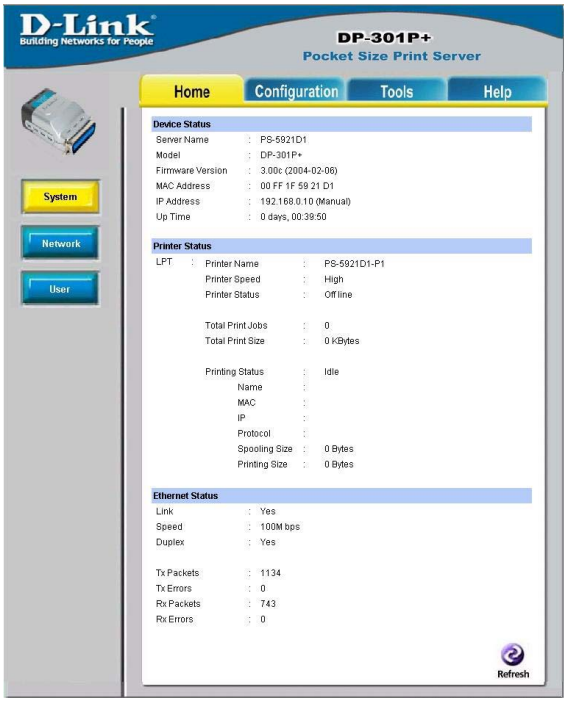
Help: Click on any item in the **Help** menu for more information.

TCP/IP Printing for Windows XP

Open the web browser, and type in the IP address of the DP-301P+.
Type **http://192.168.0.10** into the **Location** or **Address** field. Press **Enter**.

Note:
The PC's IP address must be in the same subnet as the print server's IP address for the two devices to communicate. (For example, if your print server's IP address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP address should be 192.168.0.x, where x is a value between 1-254, excluding 10.) See *Networking Basics: Assigning a Static IP Address* in this manual to find out how to change an IP address.



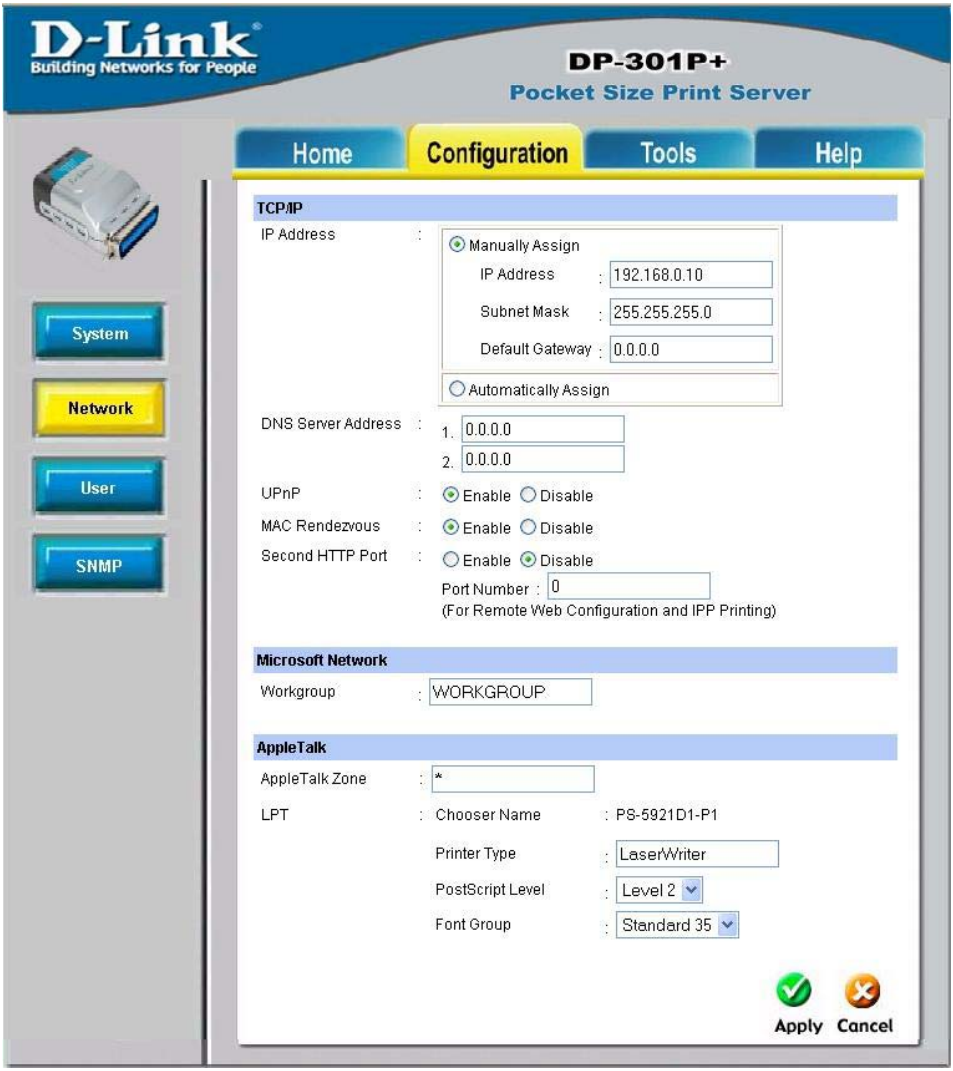


TCP/IP Printing for Windows XP *(continued)*

At the **Configuration** window, write down the **Port Name** for future reference. You will need this information later in the configuration process.

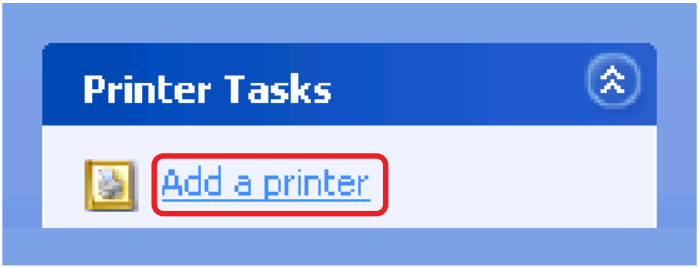
TCP/IP Printing for Windows XP *(continued)*

When you select **TCP/IP Protocol** at the **Network** window, the screen below appears. (We recommend that you keep the default settings as shown.) If you need to make changes, make sure to click **Save** after you have made the changes. (You may wish to make a note of the IP address.)



TCP/IP Printing for Windows XP *(continued)*

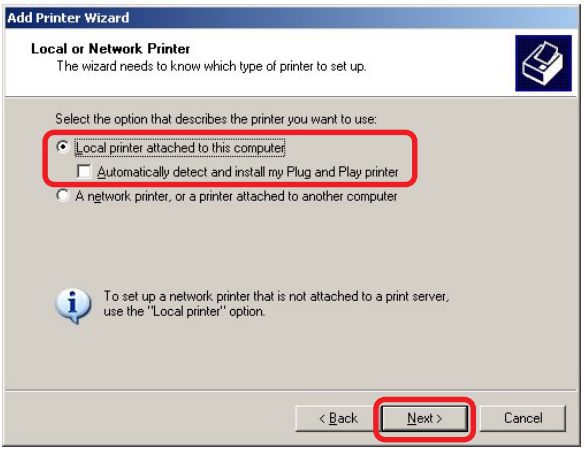
Go to **Start > Settings > Printers and Faxes > Add a Printer**.



Click **Next**.

TCP/IP Printing for Windows XP *(continued)*

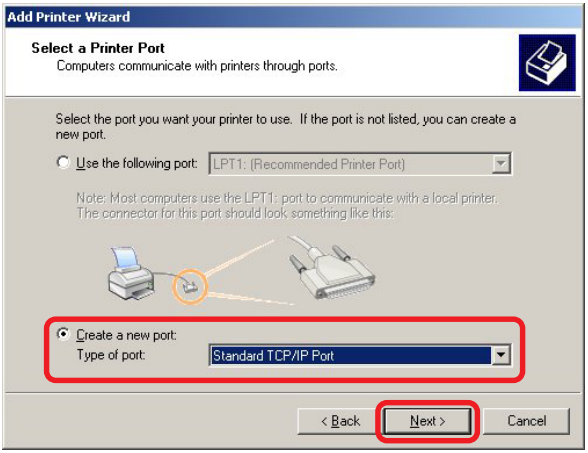
Select **Local Printer**.



Deselect **Automatically detect and install my Plug and Play printer**.

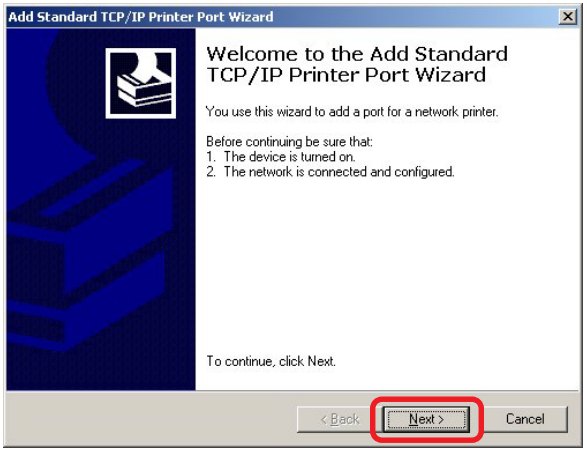
Click **Next**.

Select **Create a new port.** At the pull-down menu, highlight **Standard TCP/IP Port**.



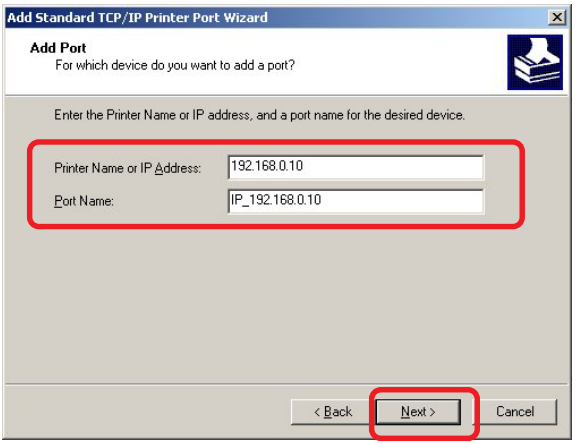
Click **Next**.

Click **Next**.



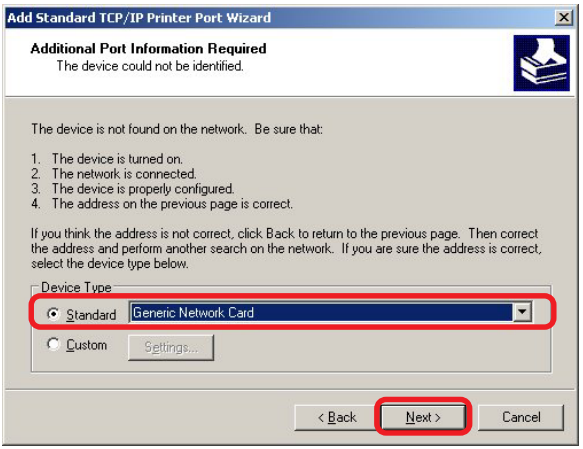
TCP/IP Printing for Windows XP *(continued)*

Type in the IP address of the print server (i.e. 192.168.0.10). The **Port Name** will automatically be filled in.

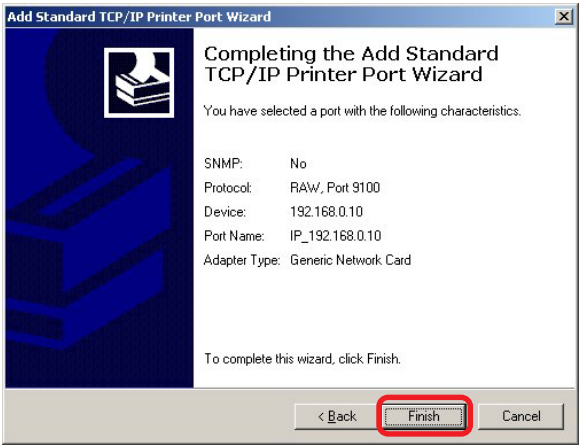


Select **Standard**.

Click **Next**.

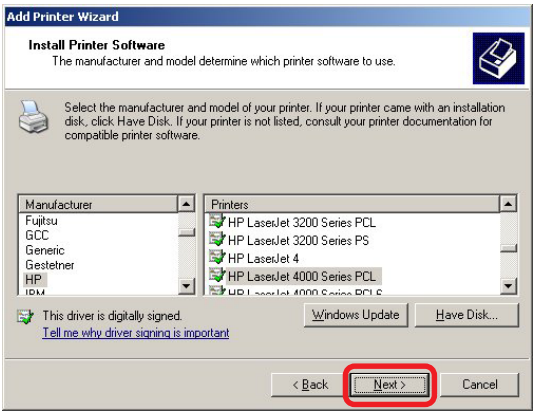


Click **Finish**.



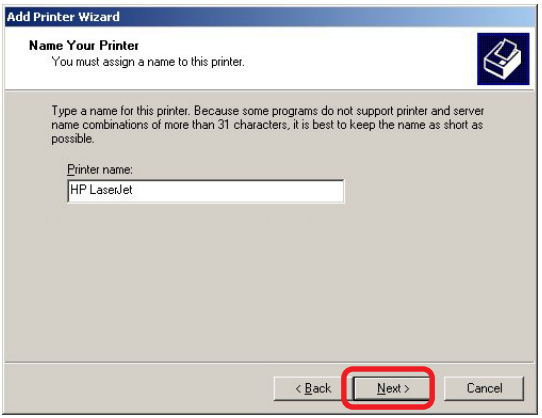
TCP/IP Printing for Windows XP *(continued)*

Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.

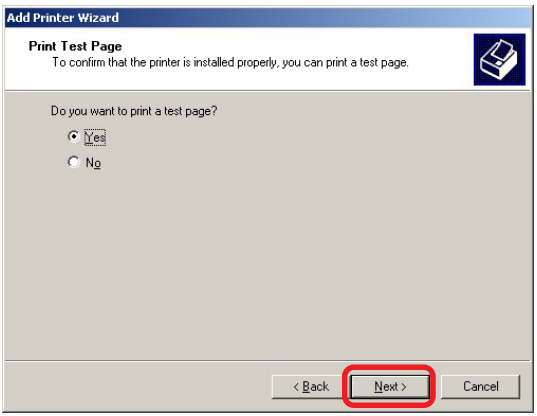


Click **Next**.

At this screen, you can input a name for the printer.

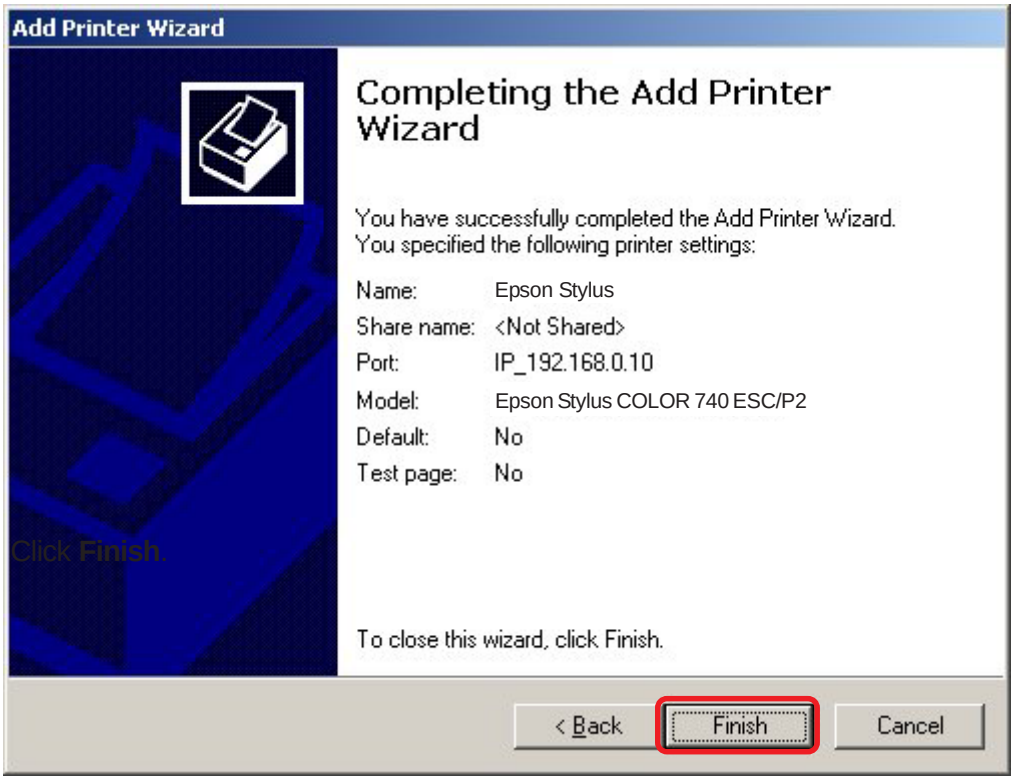


Click **Next**.



Click **Next**.

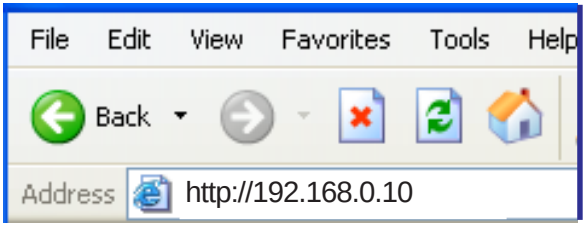
TCP/IP Printing for Windows XP *(continued)*

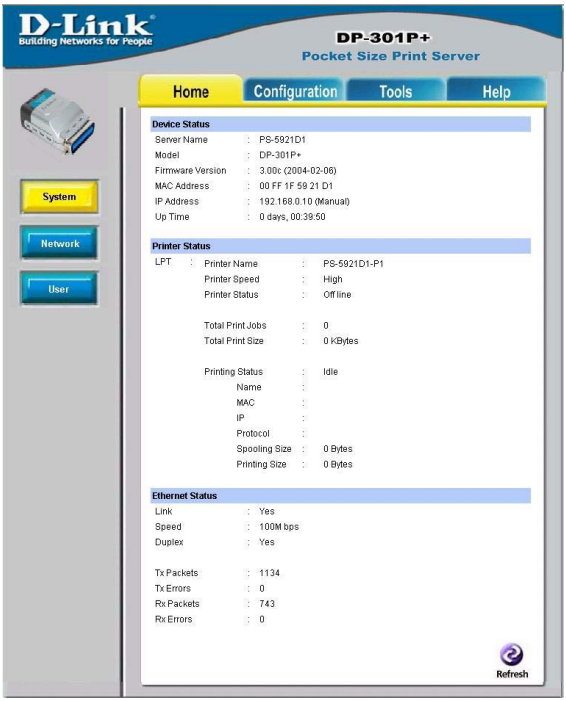


TCP/IP Printing for Windows 2000

Open the web browser, and type in the IP address of the DP-301P+.
Type **http://192.168.0.10** into the **Location** or **Address** field. Press **Enter**.

Note:
The PC's IP address must be in the same subnet as the print server's IP address for the two devices to communicate. (For example, if your print server's IP address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP address should be 192.168.0.x, where x is a value between 1-254, excluding 10.) See *Networking Basics: Assigning a Static IP Address* in this manual to find out how to change an IP address.



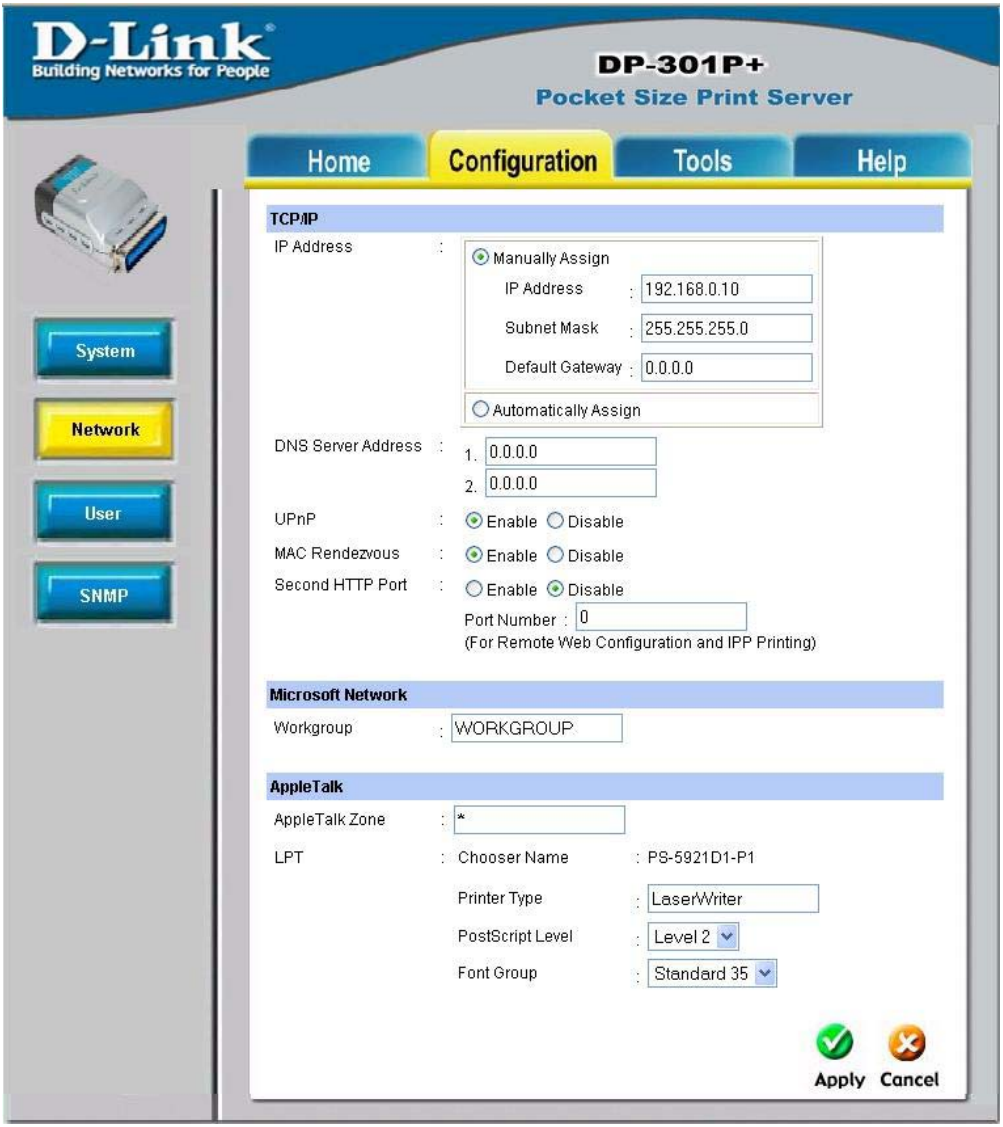


TCP/IP Printing for Windows 2000 *(continued)*

At the **Configuration** window, write down the **Port Name** for future reference. You will need this information later in the configuration process.

TCP/IP Printing for Windows 2000 *(continued)*

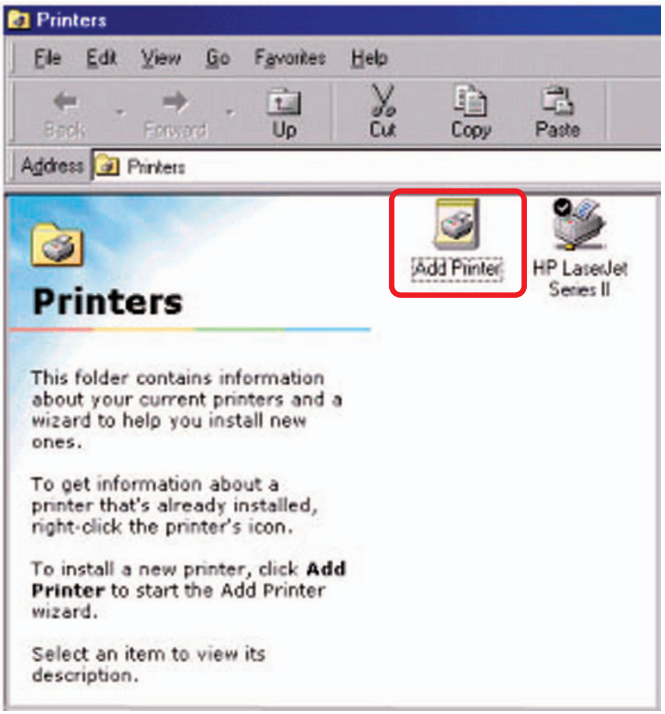
When you select **TCP/IP Protocol** at the **Network** window, the screen below appears. (We recommend that you keep the default settings as shown.) If you need to make changes, make sure to click **Save** after you have made the changes. (You may wish to make a note of the IP address.)



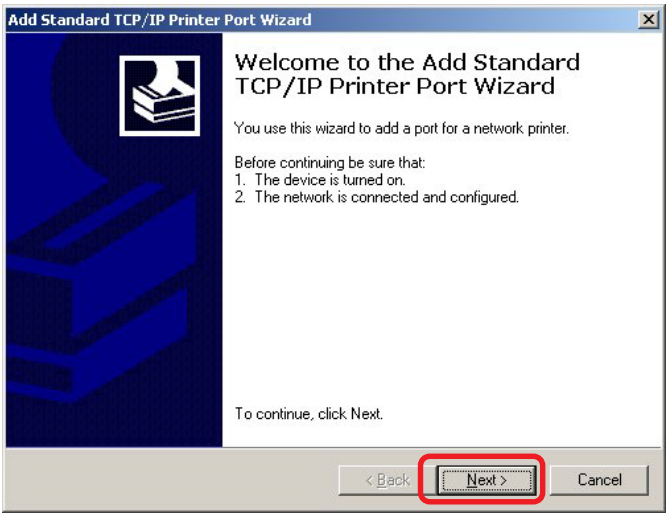
TCP/IP Printing for Windows 2000 *(continued)*

Go to **Start > Settings > Printers**

Double-click on the **Add Printer** icon.

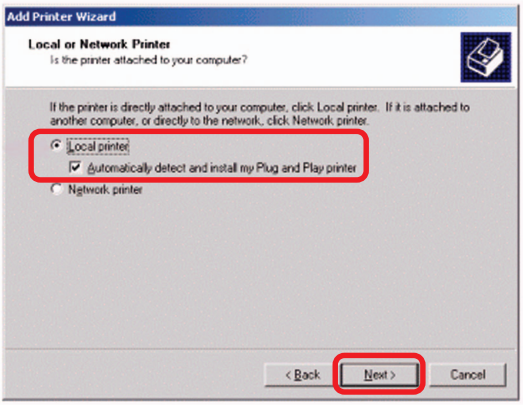


Click **Next**.

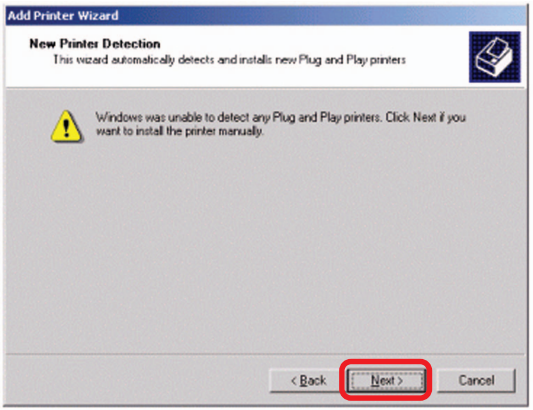


TCP/IP Printing for Windows 2000 *(continued)*

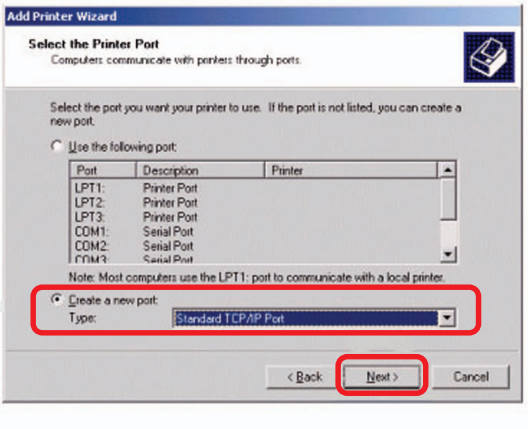
Select **Local Printer**.



Click **Next**.



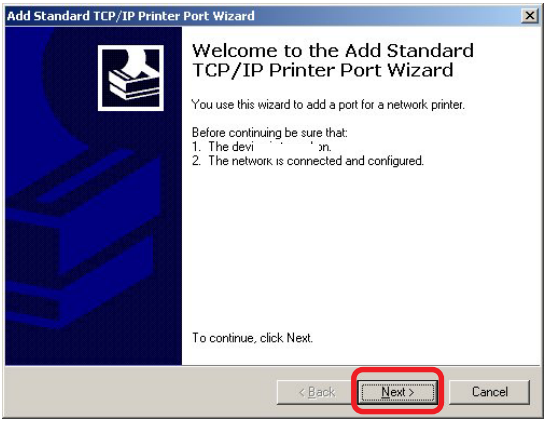
Select **Create a new port** at the pull-down menu, highlight **Standard TCP/IP Port**.



Click **Next**.

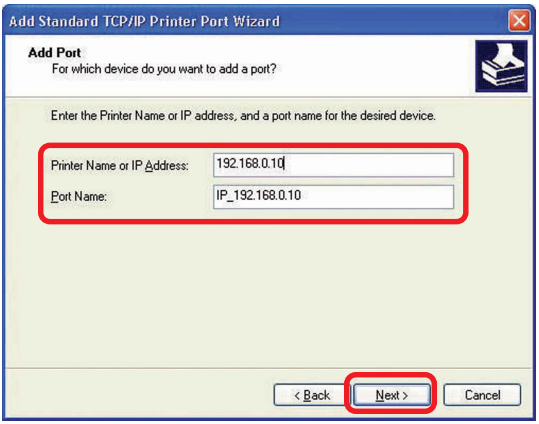
TCP/IP Printing for Windows 2000 *(continued)*

Click **Next**.



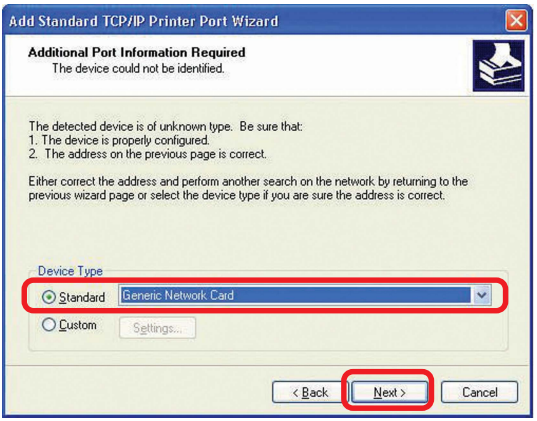
Type in the IP address of the print server in the **Printer Name or IP Address** field. The **Port Name** field will automatically be filled in.

Click **Next**.

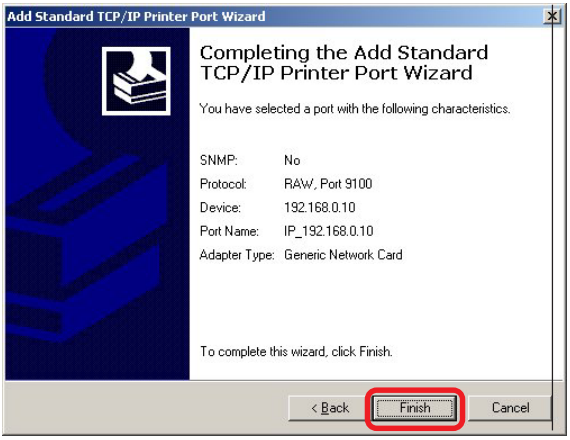


Select **Standard**.

Click **Next**.

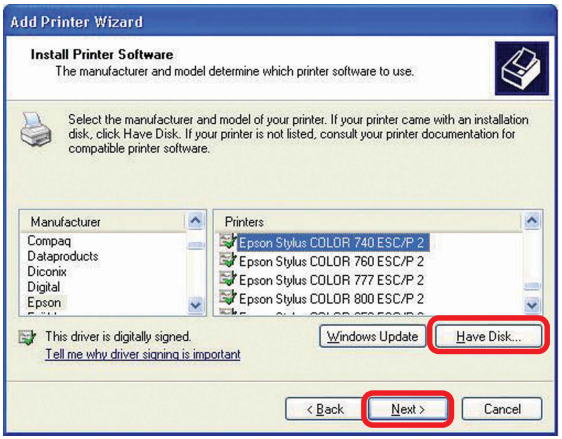


TCP/IP Printing for Windows 2000 *(continued)*



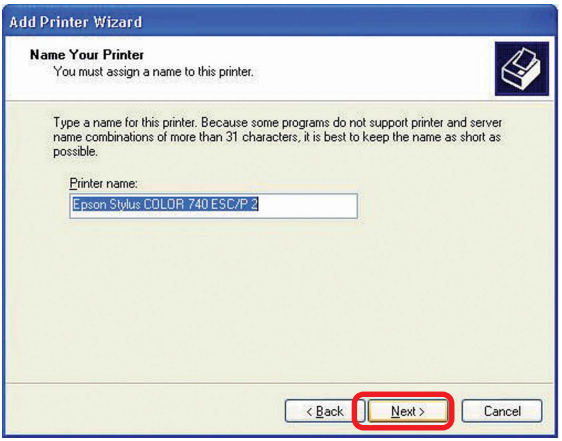
Click **Finish**.

Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.



Click **Next**.

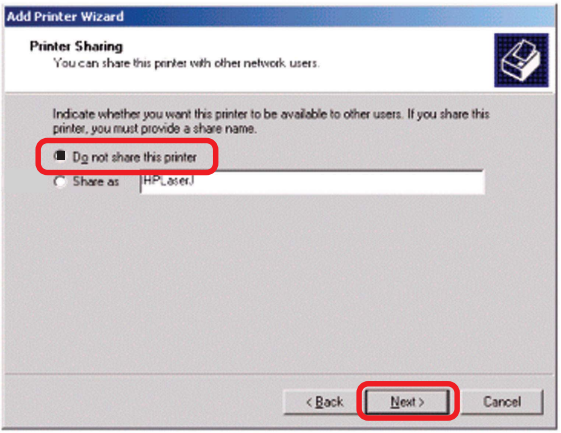
At this screen, you can input a name for the printer.



Click **Next**.

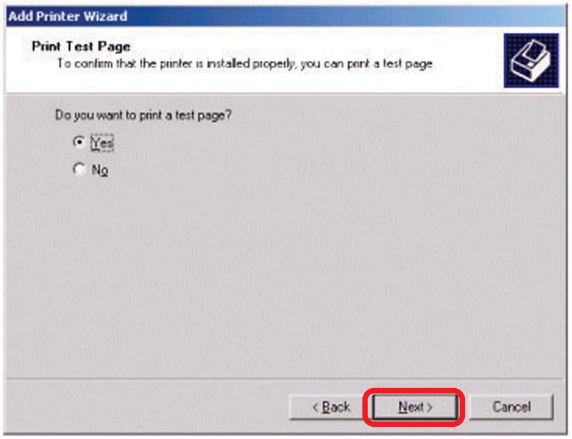
TCP/IP Printing for Windows 2000 *(continued)*

Select **Do not share this printer**.

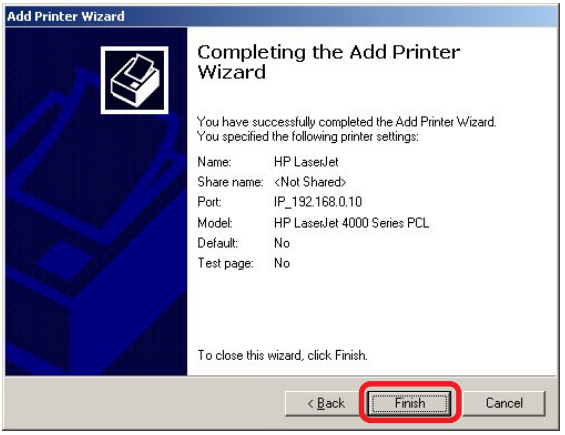


Click **Next**.

Select **Yes** to print a test page.



Click **Next**.



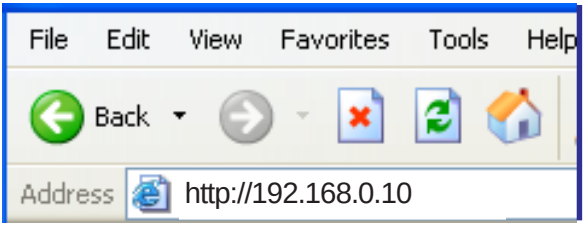
Click **Finish**.

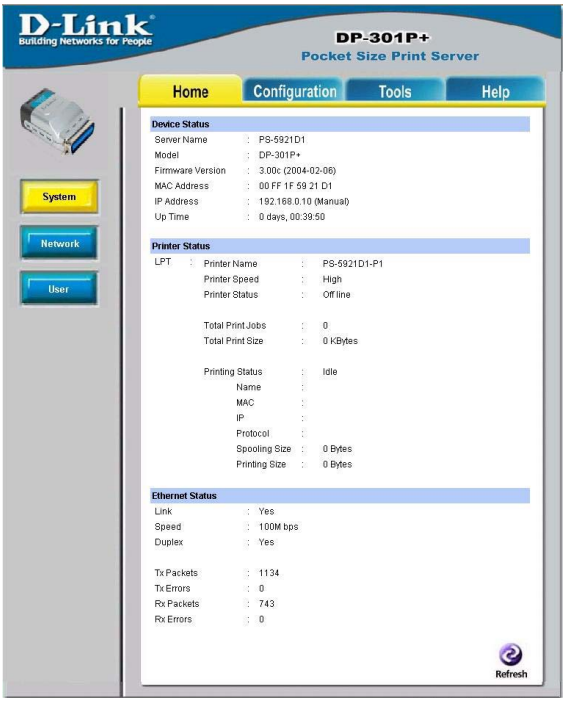
The printer is now ready for printing with Windows 2000 on your network.

TCP/IP Printing for Windows 98SE/Me

Open the web browser, and type in the IP address of the DP-301P+.
Type **http://192.168.0.10** into the **Location** or **Address** field. Press **Enter**.

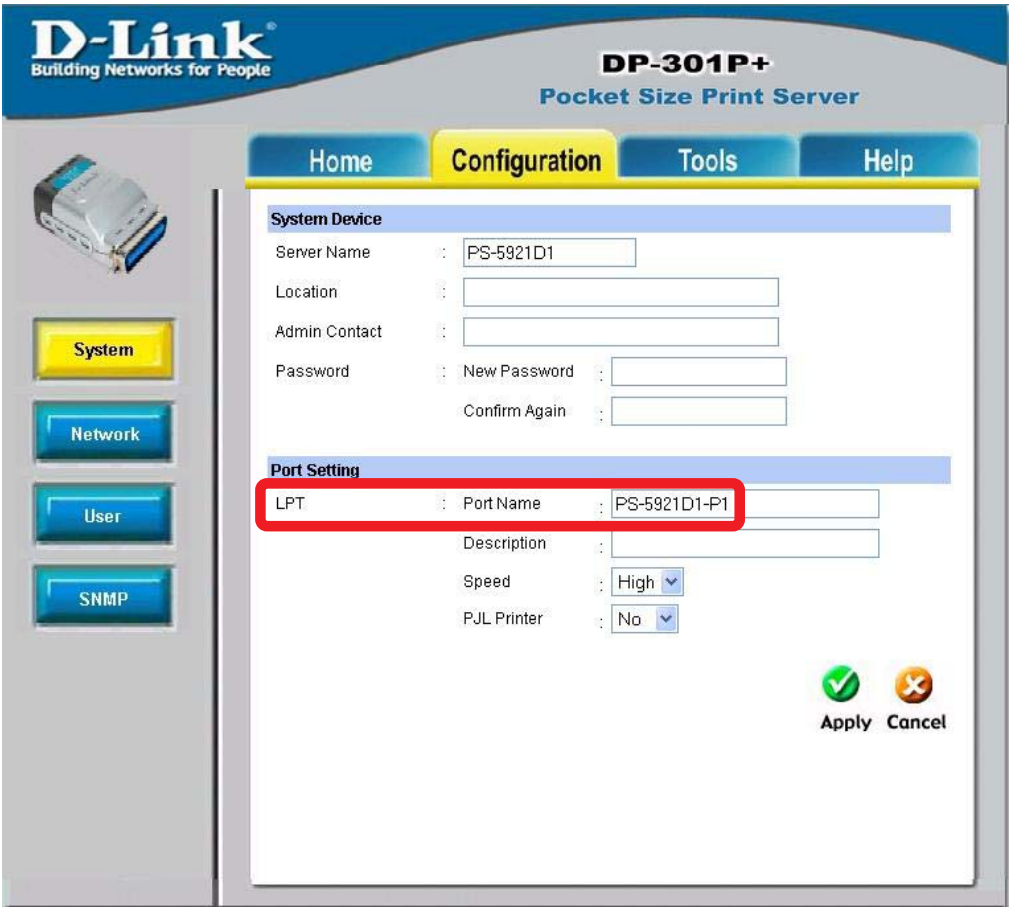
Note:
The PC's IP address must be in the same subnet as the print server's IP address for the two devices to communicate. (For example, if your print server's IP address is 192.168.0.10, with a subnet mask of 255.255.255.0, then your computer's IP address should be 192.168.0.x, where x is a value between 1-254, excluding 10.) See *Networking Basics: Assigning a Static IP Address* in this manual to find out how to change an IP address.





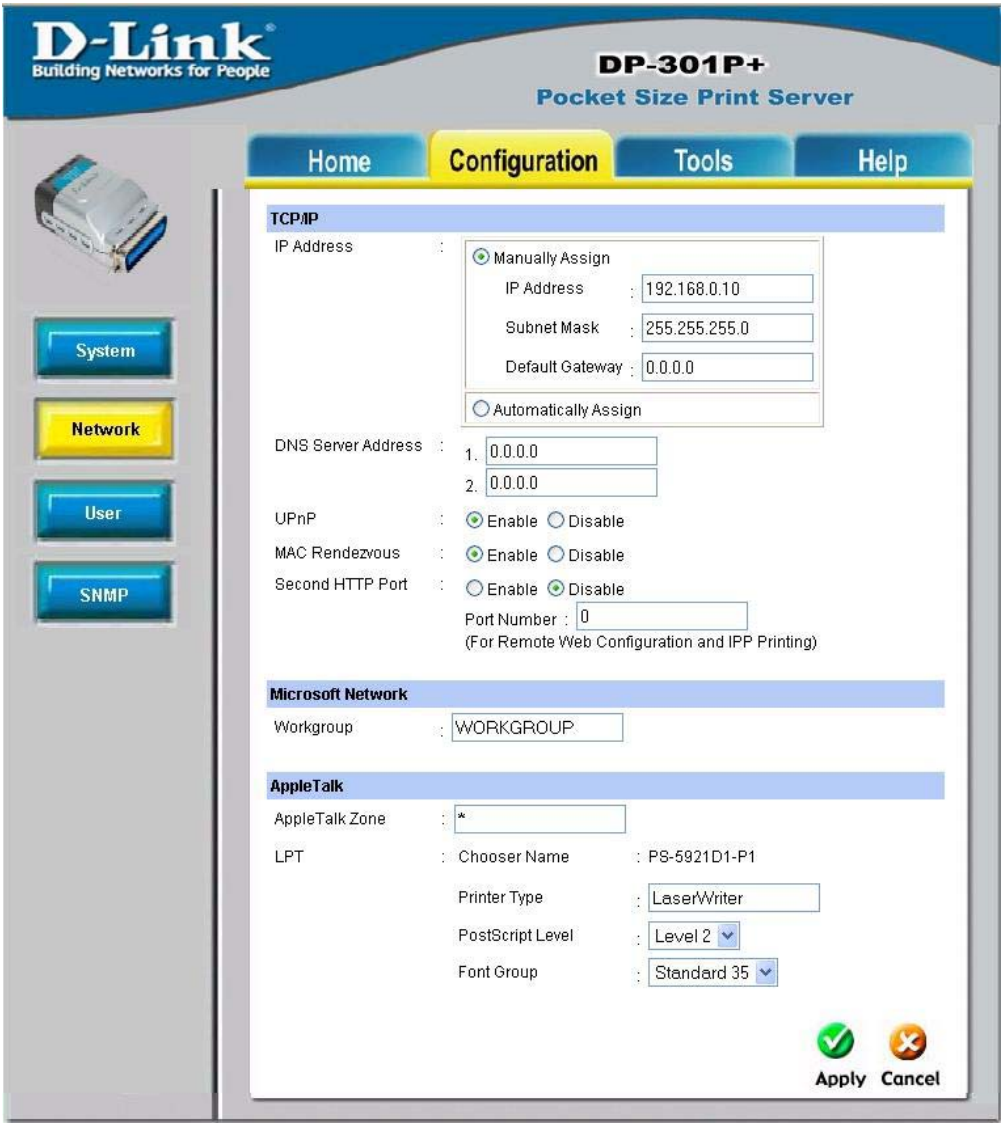
TCP/IP Printing for Windows 98SE/Me
(continued)

At the **Configuration** window, write down the **Port Name** for future reference. You will need this information later in the configuration process. The **Port Name** shown here is only an example.



TCP/IP Printing for Windows 98SE/Me*(continued)*

When you select **TCP/IP Protocol** at the **Network** window, the screen below appears. (We recommend that you keep the default settings as shown.) If you need to make changes, make sure to click **Save** after you have made the changes. (You may wish to make a note of the IP address.)



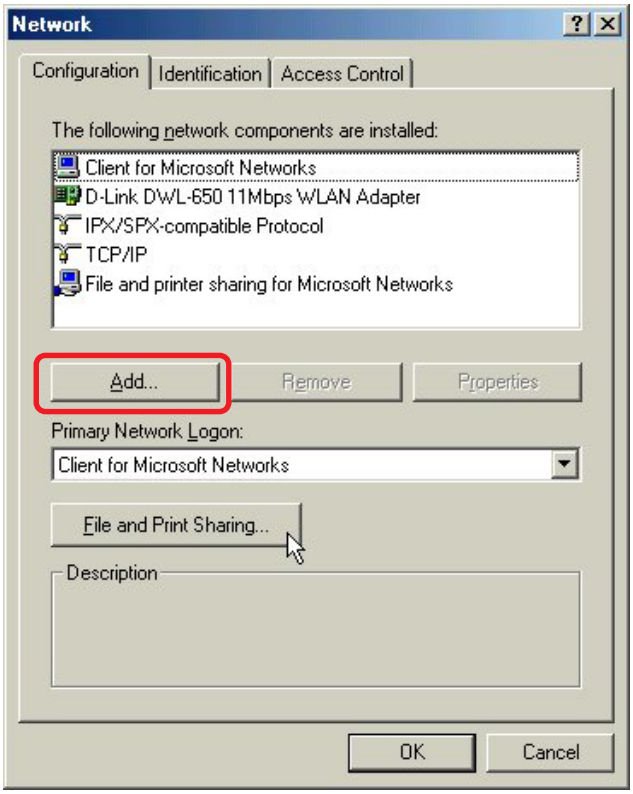
TCP/IP Printing for Windows 98SE/Me *(continued)*

Go to **Start > Settings > Control Panel**.

Double-click on **Network**.

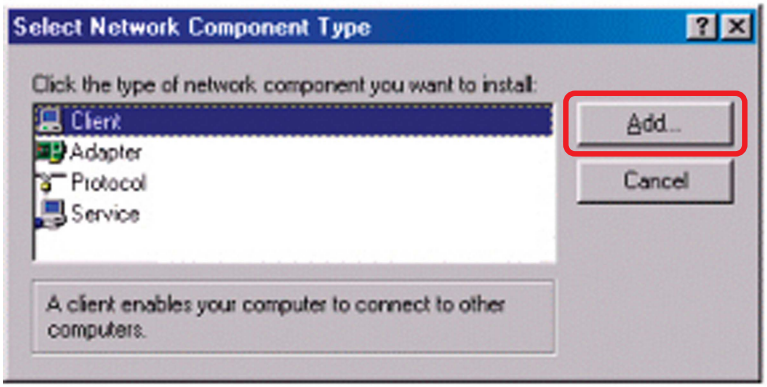
The screen shown at the right will appear.

Click **Add**.



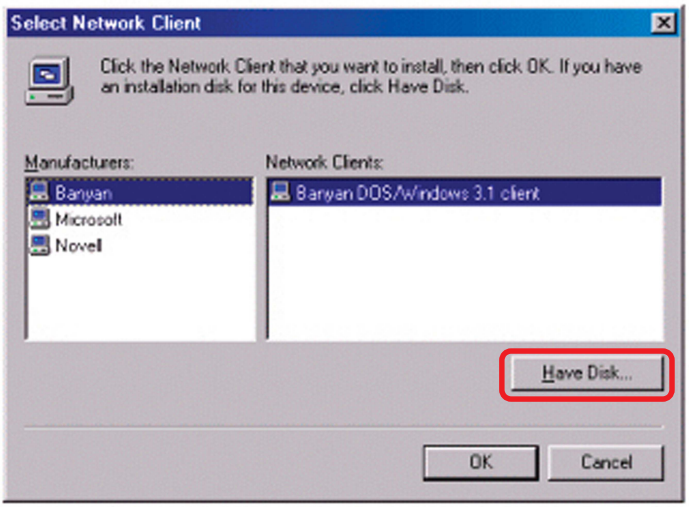
Highlight **Client**.

Click **Add**.



TCP/IP Printing for Windows 98SE/Me *(continued)*

At this window, click **Have Disk**.

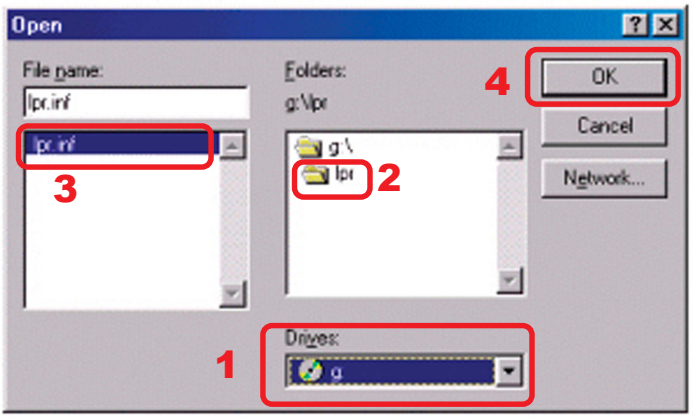


1. Insert the DP-301P+ CD-ROM into your CD-ROM drive. **Select the letter representing the CD-ROM** drive on your computer from the pull-down menu.

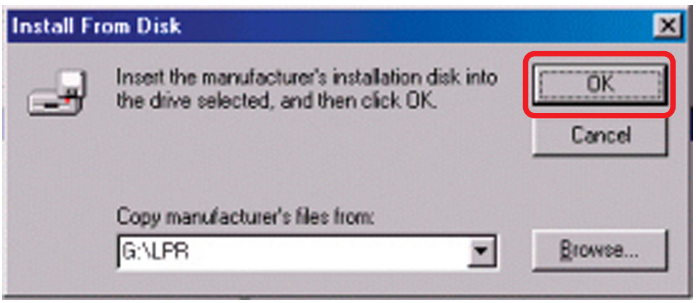
2. Double-click on the folder **lpr**.

3. Highlight **lpr.inf**.

4. Click **OK**.

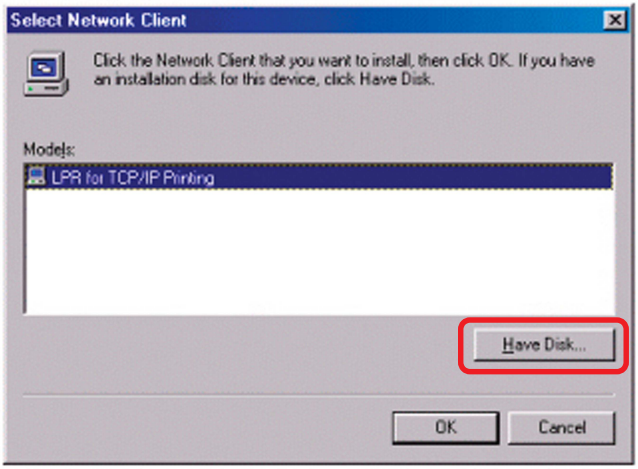


Click **OK** to accept the location of the file.



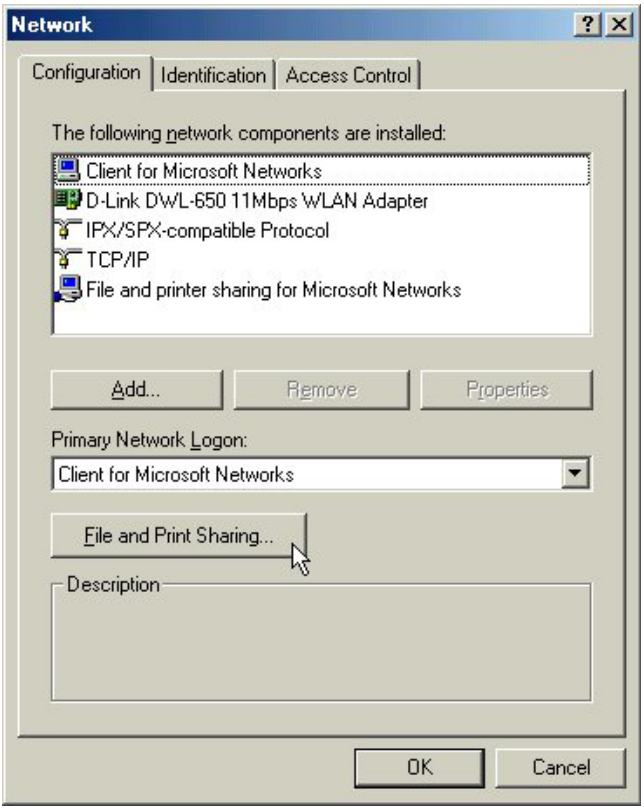
TCP/IP Printing for Windows 98SE/Me *(continued)*

Click **OK**.



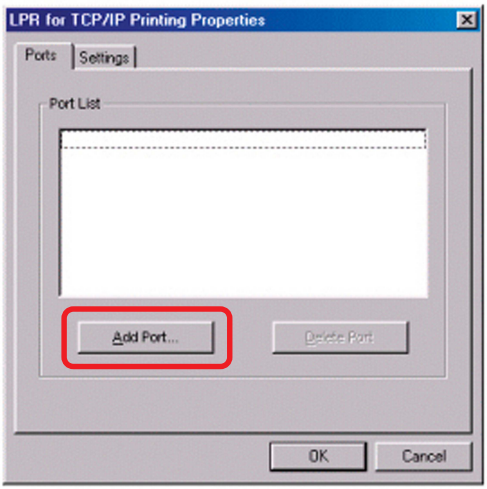
You should now be back to the **Network Properties** Page. Highlight **LPR for TCP/IP Printing**.

Click **Properties**.



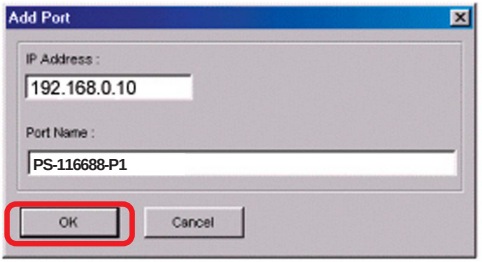
TCP/IP Printing for Windows 98SE/Me *(continued)*

Click **Add Port**.



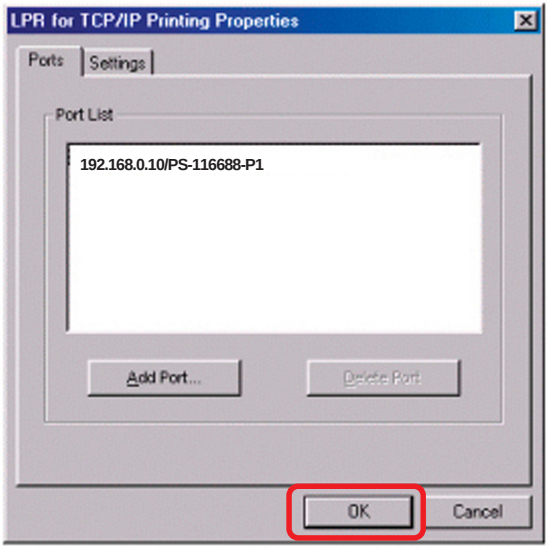
Type in the IP address of the DP-301P+. Make sure the **Port Name** is accurate. (The **Port Name** at right is just an example.)

Click **OK**.

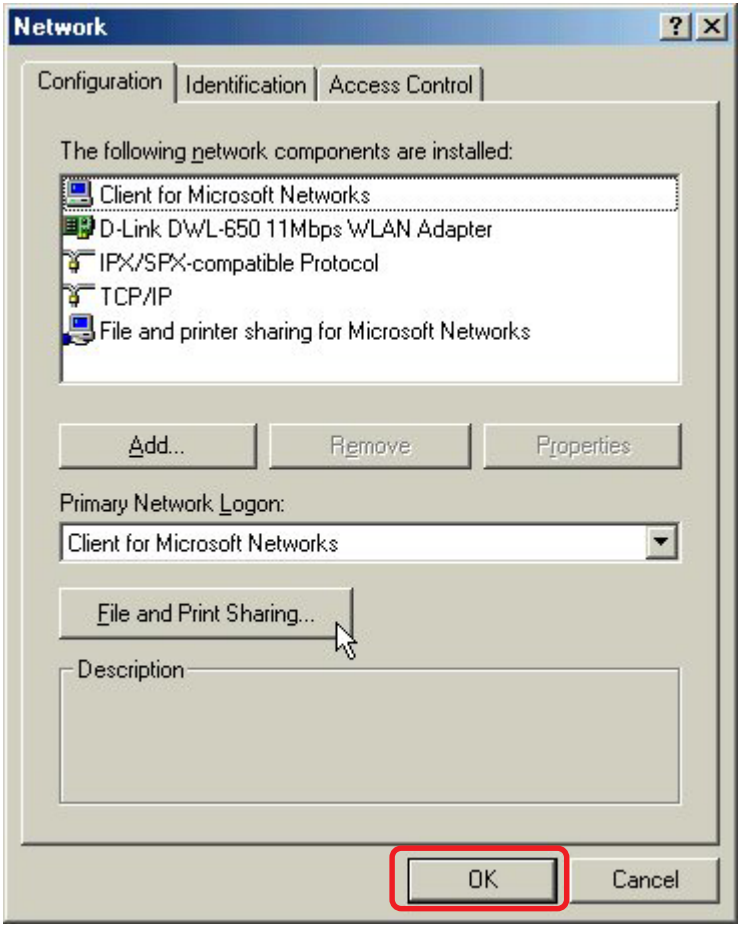


The **Port Name** and IP address will be displayed. (The **Port Name** at right is just an example.)

Click **OK**.



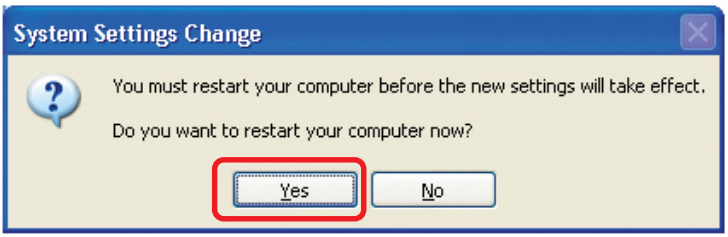
TCP/IP Printing for Windows 98SE/Me *(continued)*



Click **OK**.

Windows will ask for a restart.

Click **Yes**.



TCP/IP Printing for Windows 98SE/Me *(continued)*

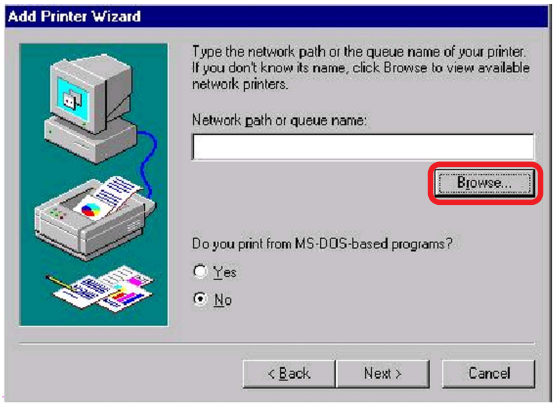
Once your computer has rebooted, click on **Start > Settings > Printers > Add Printer**

When the **Add Printer Wizard** screen appears, click **Next.**

Select **Network Printer.**

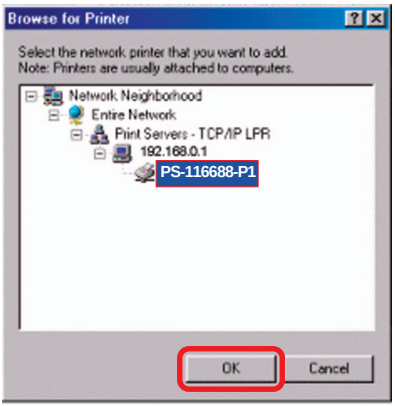
Click **Next**.

Type in the path, if you know it, or click **Browse**.



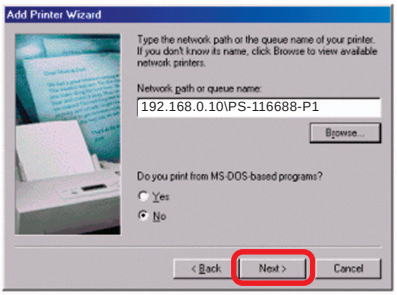
TCP/IP Printing for Windows 98SE/Me *(continued)*

At the next screen, browse for the printer port. Highlight the port as shown. (The **Port Name** in this window is just an example.)



Click **OK**.

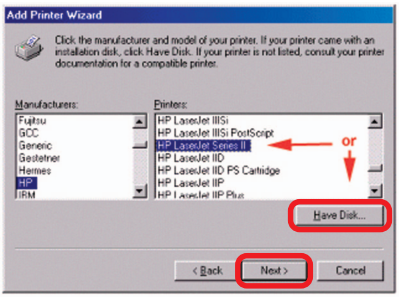
If the network path is not specified, type in the IP address of the DP-301P+ and the **Port Name.** (The **Port Name** shown at right is just an example.)



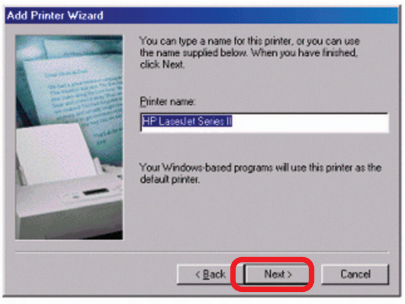
Select **Yes** or **No**, to answer the question: *Do you print from MS-DOS based programs?*

Click **Next**.

Highlight the printer, as shown. If the desired printer is not on the list, click **Have Disk** and insert the printer driver disk that came with your printer to install the printer drivers.



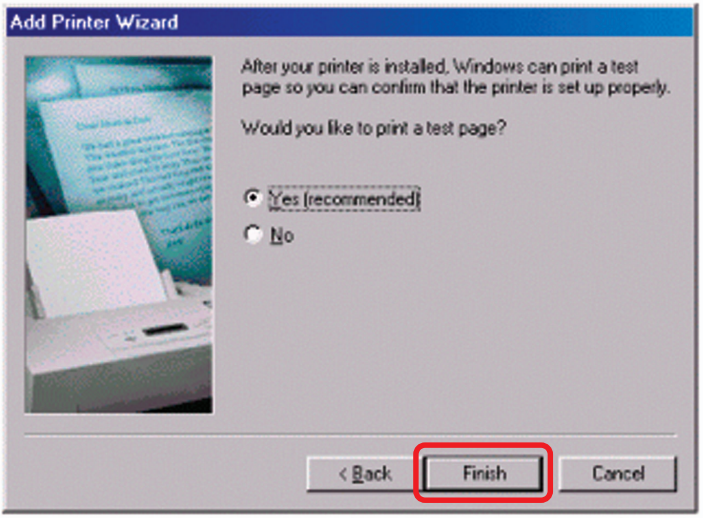
Click **Next**.



Click **Next**.

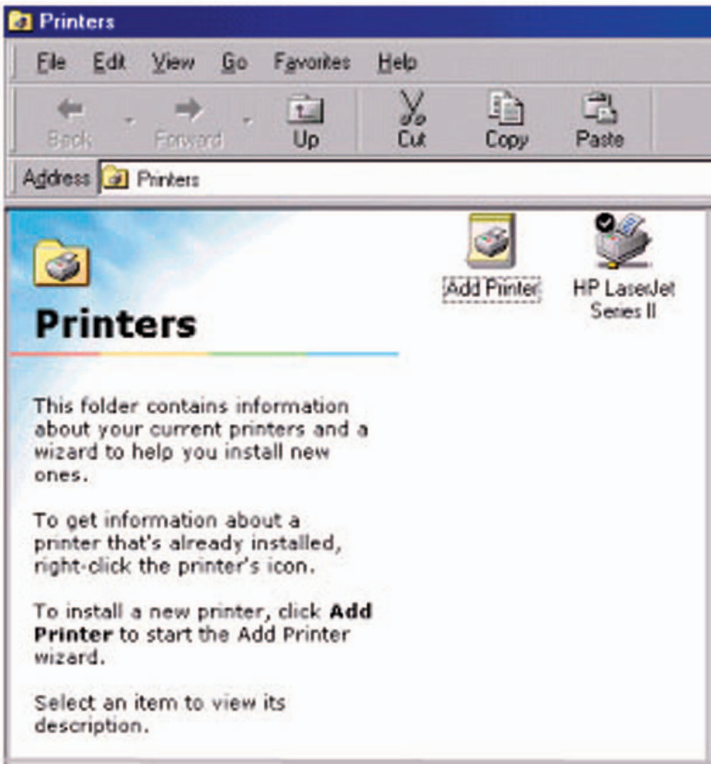
TCP/IP Printing for Windows 98SE/Me *(continued)*

Select **Yes** to print a test page.



Click **Finish**.

Go to Start > Settings > Printers
Check to see that your printer is installed.



Unix/Linux Printing

Please refer to the *PS Admin Manual* on the CD included with your DP-301P+ purchase for information on setting up the print server in Unix/Linux.

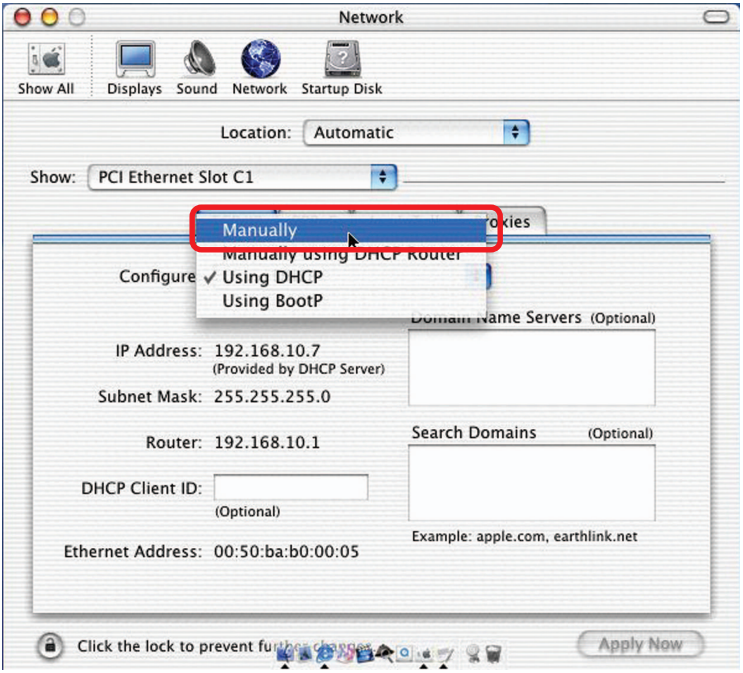
Setting up Apple Talk or LPR Printing *in Mac OS X*

Note: Mac OS printing is supported by PostScript printers only!

With Mac OS X you can use AppleTalk or LPR printers using IP protocols for printing through print servers. Follow the instructions below to set up the print server. After attaching the print server to your network using the directions provided in the *Quick Installation Guide*, change the IP address of your Macintosh to access the print server's Web configuration.

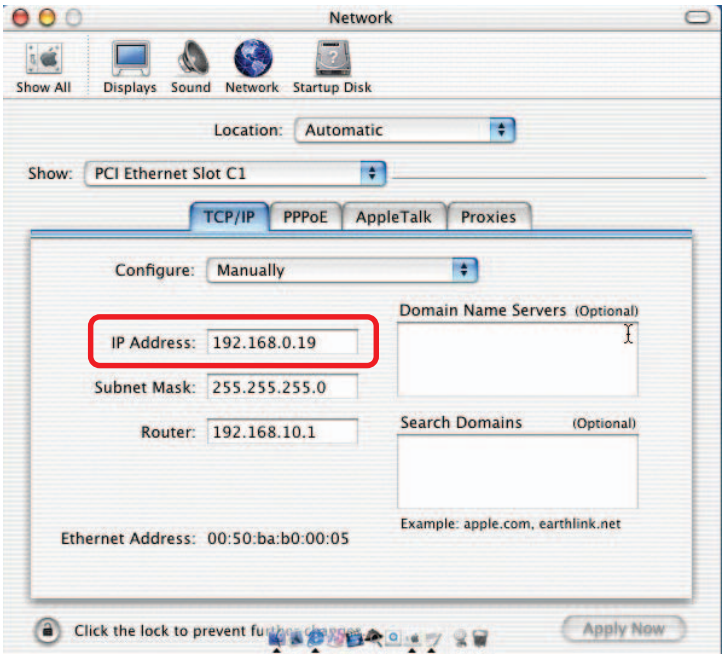
Open your **System Preferences** window and click **Network.**

At the **Configure** pull-down menu, select **Manually**

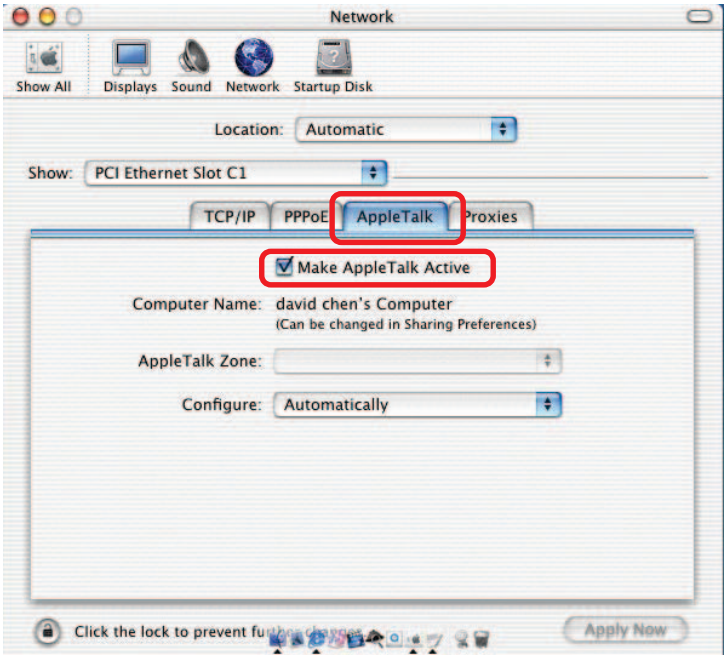


Setting up Apple Talk or LPR Printing
in Mac OS X (continued)

The default IP address of the print server is 192.168.0.10. Manually change your IP address to 102.168.0.x, where x is any number between 1 and 254 (except 10 which is the IP address of the print server.) The IP addresses and subnet mask shown here are examples only.

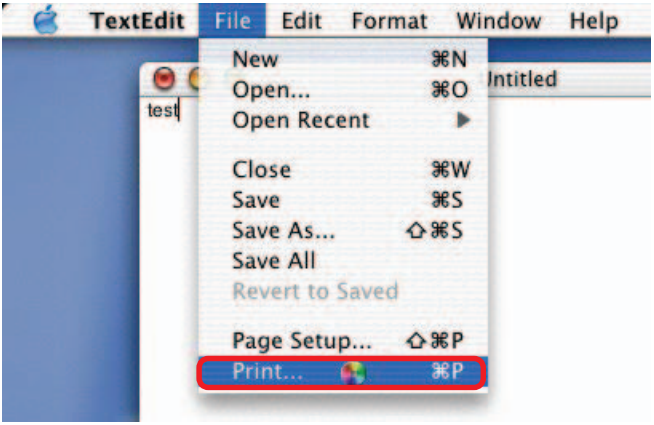


Select the **AppleTalk** tab in this window and check **Make AppleTalk Active**.

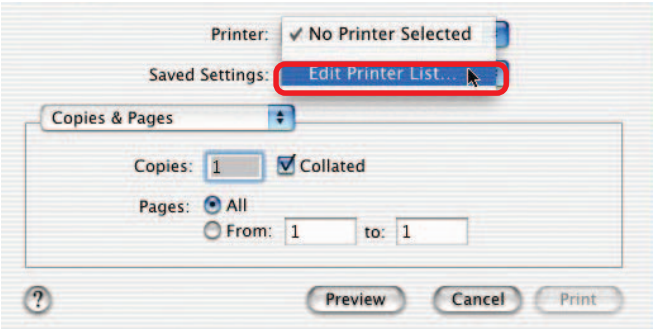


Setting up Apple Talk or LPR Printing
in Mac OS X (continued)

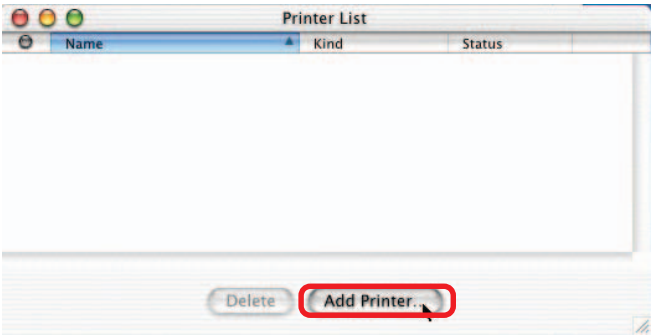
To print, open a document and select **File** > **Print** from the menu.



Select **Edit Printer List** from the **Printer** dialog box.

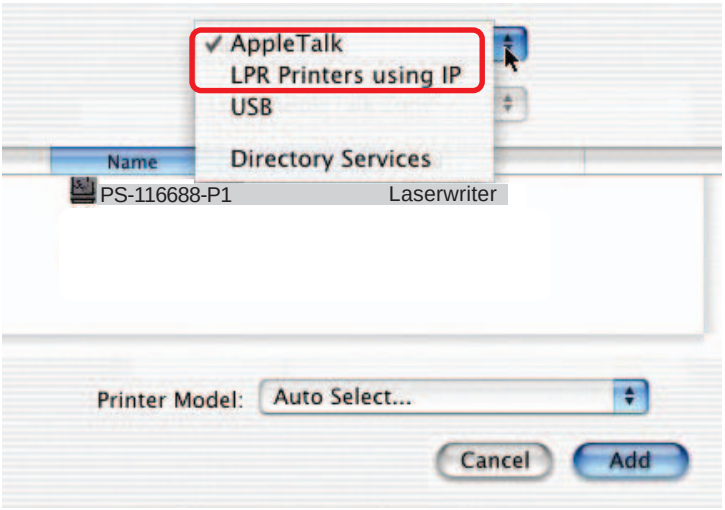


Click **Add Printer**



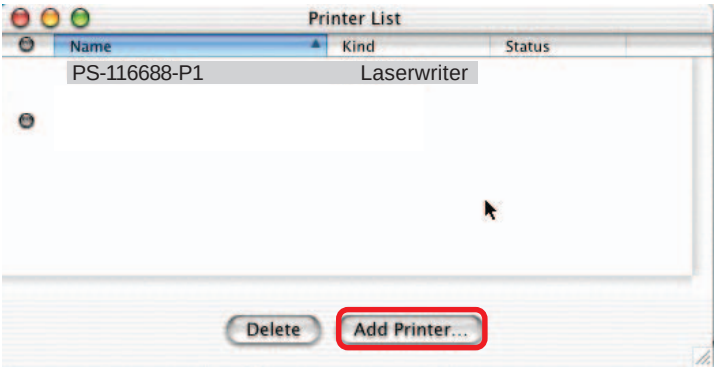
Setting up Apple Talk or LPR Printing
in Mac OS X (continued)

Select the printing protocol preferred, **AppleTalk** or **LPR Printers using IP.** In this example, **AppleTalk** has been selected.



AppleTalk protocol: After selecting **AppleTalk** the **Port Name** of the print server will be displayed. The **Port Name** shown here is an example only.

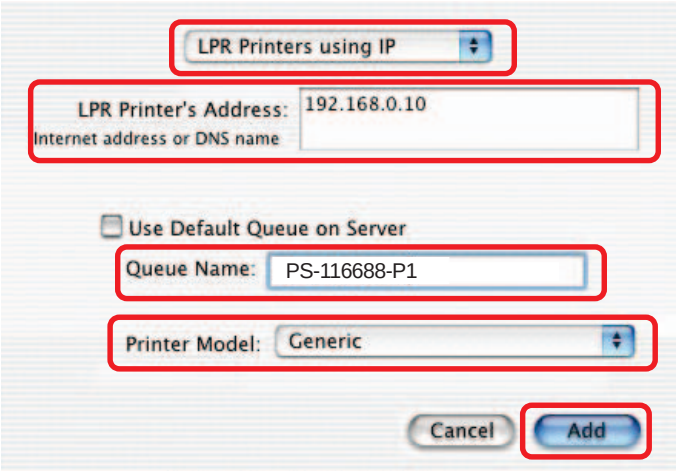
Click on the port to which the PostScript printer is connected.



Then select the printer model from the dialog box displayed here.
Click **Add Printer** and the printer port configuration is complete.
Select the printer port just configured in the print window.
Click **Print** to print your document.

LPR Printers using IP protocol:
When you select **LPR Printers using IP Protocol,** this window will appear.

Type the IP address of the print server into the **LPR Printer's Address** field.



In the **Queue Name** field, type in the **Port Name** of the post-script printer that is connected to the print server. The **Port Name** illustrated here is only an example. Select the printer model from the dialog box.

Select the printer model from the dialog box.

Click **Add**.

Close all print center windows, select the printer port that was just selected.

Click **Print** to print the document.

Click **Add** and the process is complete.

Setting up AppleTalk Printing *in Mac OS 9*

Note: Mac OS printing is supported for Postscript printers only!

The AppleTalk network protocol is used with computers using the Macintosh operating system. It can be used for network communications over standard Ethernet or Fast Ethernet using the EtherTalk transport, or over a proprietary LocalTalk transport.

Your print server can be used for network printing to PostScript printers. You can print from any Mac OS computer connected to your Ethernet network, either directly using an EtherTalk connection, or indirectly through a LocalTalk-to-EtherTalk router.

NOTE: *The chooser name of a printer connected to one of the print server's ports is the same as its* ***port name****. If you are using AppleTalk printing, you will need to make sure that every* ***port name*** *is unique among all of the network printers in your AppleTalk zone. The* ***port names*** *shown in this manual are examples only.*

Setting up the print server for AppleTalk Printing

To set up your print server so that it can be used for AppleTalk printing:

- Make sure the AppleTalk protocol is enabled in your Macintosh.
- Change the IP address on one of the computers on your network to 192.168.0.x, where **x** is any number between 11-254, excluding 10.
- Type 192.168.0.10 into the address field of your web browser. 192.168.0.10 is the default IP address of the DP-301P+.
- Select the **Network** tab and scroll to the bottom to the AppleTalk protocol section.
- If your AppleTalk network is divided into AppleTalk zones, you will have to specify which zone the print server should be in. You should locate the print server in the same zone as most of the users who will be using it. If your network is not divided into zones, the AppleTalk Zone field should contain a single asterisk "*".

Printing from Mac OS Client Workstations

The exact procedure for selecting a PostScript printer connected to your print server may vary slightly, depending on what printer driver version you are using. The procedure described below assumes you are using the LaserWriter 8.

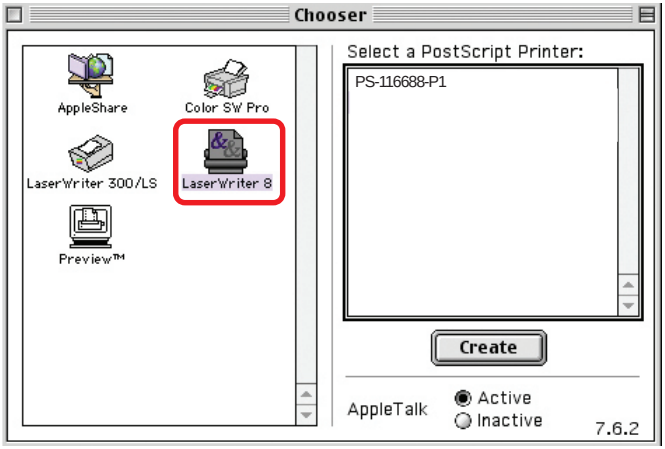
To choose a printer connected to your print server as your Mac OS workstation's default printer,

Open the chooser by selecting **Chooser** from the Apple menu.

Select the **LaserWriter 8** icon on the left. Make sure that AppleTalk is set to **Active**.

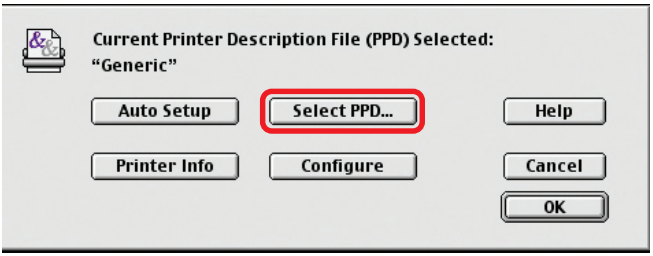
A list of all networked PostScript printers will be displayed:

Double-click the name of the **printer port** you wish to use. The **printer ports** shown are examples only.



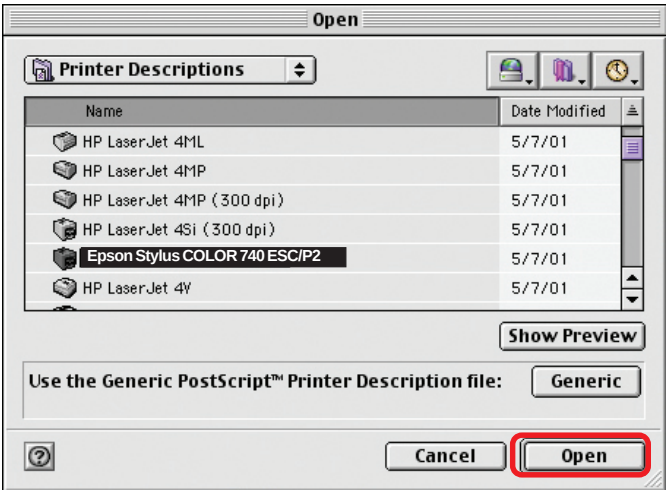
Printing from Mac OS Client Workstations (continued)

If you have not previously set this printer as the default, your computer will prompt you for a PostScript Printer Description file. Choose **Select PPD.**



Select the appropriate printer description file for your printer.

Click **Open**.
(If your printer is not listed, click **Generic** to use a generic printer description.)



If you wish to access this setting in the future, you can use the **Setup** button in the Chooser window.

The selected printer will become your computer's default printer. You may need to choose **Page Setup** in any applications you have open.

Technical Specifications

Printer Connection

Printer Port: Parallel port

Bidirectional Communication: Hewlett-Packard PJL (Printer Job Language) standard for bi-directional communication.

Network Connection

Network Standards: IEEE 802.3 10Base-T Ethernet

Network Data Transfer Rate: 10/100 Mbps (megabits per second)

Network Connector: RJ-45 connector for 10Base-T Category 5 twisted-pair connection

Network Protocols

Ethernet Frame Types: 802.2, 802.3, Ethernet II, SNAP (auto-switching)

Transport Protocols: TCP/IP, NetBEUI, AppleTalk/EtherTalk, LPR

TCP/IP Protocols Supported: BOOTP, SNMP, Telnet, TFTP, FTP, LPD, RARP, DHCP

Management and Diagnostics

Standard: SNMP

MIBs: MIB-II (RFC 1213)

Diagnostic LED Indicators: Pw, Lk/Act, LPT

Environmental and Physical

Power Supply: External power supply providing 5V DC, 2.5A

Dimensions: 3.54" x 2.20" x 1.02" (90mm x 56mm x 26mm)

Weight: approx. 4.27 oz. (121g)

Operating Temperature: 32 to122°F (0 to 50°C)

Storage Temperature: -13 to 131°F (-25 to 55°C)

Humidity: 5% to 95% non-condensing

Emissions: FCC Class B, CE Class B, VCCI Class B

Warranty

One year limited warranty

Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

U.S. and Canadian customers can contact D-Link technical support through our website, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone:
(877) 453-5465
24 hours a day, seven days a week.

D-Link Technical Support over the Internet:
http://support.dlink.com
email:support@dlink.com

Tech Support for customers within Canada:

D-Link Technical Support over the Telephone:
(800) 361-5265
Monday to Friday 8:30am to 9:00pm EST

D-Link Technical Support over the Internet:
http://support.dlink.ca
email:support@dlink.ca

When contacting technical support, please provide the following information:

- *Serial number of the unit*
- *Model number or product name*
- *Software type and version number*

Warranty and Registration
(USA only)

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited warranty for its product only to the person or entity that originally purchased the product from:

- D-Link or its authorized reseller or distributor and
- Products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, addresses with an APO or FPO.

Limited Warranty: D-Link warrants that the hardware portion of the D-Link products described below will be free from material defects in workmanship and materials from the date of original retail purchase of the product, for the period set forth below applicable to the product type ("Warranty Period"), except as otherwise stated herein.

1-Year Limited Warranty for the Product(s) is defined as follows:

- Hardware (excluding power supplies and fans) One (1) Year
- Power Supplies and Fans One (1) Year
- Spare parts and spare kits Ninety (90) days

D-Link's sole obligation shall be to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund at D-Link's sole discretion. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or have an identical make, model or part. D-Link may in its sole discretion replace the defective Hardware (or any part thereof) with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement Hardware will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. D-Link's sole obligation shall be to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund at D-Link's sole discretion. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Software will be warranted for the remainder of the original Warranty Period from the date or original retail purchase. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty: The Limited Warranty provided hereunder for hardware and software of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim: The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same.

- The original product owner must obtain a Return Material Authorization ("RMA") number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the Product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link, with shipping charges prepaid. Expedited shipping is available if shipping charges are prepaid by the customer and upon request.

- Return Merchandise Ship-To Address

USA: 53 Discovery Drive, Irvine, CA 92618
Canada: 2180 Winston Park Drive, Oakville, ON, L6H 5W1 (Visit http://www.dlink.ca for detailed warranty information within Canada)

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered: This limited warranty provided by D-Link does not cover: Products, if in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. Repair by anyone other than D-Link or an Authorized D-Link Service Office will void this Warranty.

Disclaimer of Other Warranties: EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

Limitation of Liability: TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING
FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NON-CONFORMING PRODUCT. THE MAXIMUM

LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

Governing Law: This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This limited warranty provides specific legal rights and the product owner may also have other rights which vary from state to state.

Trademarks: D-Link is a registered trademark of D-Link Systems, Inc. Other trademarks or registered trademarks are the property of their respective manufacturers or owners.

Copyright Statement: No part of this publication or documentation accompanying this Product may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from D-Link Corporation/D-Link Systems, Inc., as stipulated by the United States Copyright Act of 1976. Contents are subject to change without prior notice. Copyright© 2002 by D-Link Corporation/D-Link Systems, Inc. All rights reserved.

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.

FCC Statement: 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 communication. 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.

For detailed warranty outside the United States, please contact corresponding local D-Link office.

FCC Caution:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment; such modifications could void the user's authority to operate the equipment.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this equipment must be installed to provide a separation distance of at least eight inches (20 cm) from all persons.

This equipment must not be operated in conjunction with any other antenna.

Register your D-Link product online at http://support.dlink.com/register/

Appendix:

DP-301P+ Printer Compatibility List

The Canon Printer

Canon BJC-255SP
Canon BJ-330
Canon BJC-600, 620
Canon BJC-2000SP
Canon BJC-4100, 4300, 4500, 4550
Canon BJC-6000, 6500
Canon BJC-7000
Canon BJC-8200
Canon LBP-720, 740
Canon Bubble Jet S520

The Epson Printer/plotter

Epson Stylus Photo 700, 710, 750
Epson Stylus Photo 870
Epson Stylus Photo 1200, 1270
Epson Stylus Photo EX
Epson Stylus Pro XL
Epson Stylus Color 400, 440, 460, 480
Epson Stylus Color 600, 640, 660
Epson Stylus Color 740
Epson Stylus Color 800, 850, 860
Epson Stylus Color 900
Epson Stylus Color 1160
Epson Stylus Color 1500, 1520
Epson Stylus Color 3000
Epson Stylus C60
Epson LQ-100
Epson LQ-300
Epson LQ-550, 570+
Epson LQ-1070C+
Epson LQ-2070, 2170C
Epson EPL-N2000, N2010
Epson EPL-5500, 5700, 5700L, 5800

The Fujitsu Printer

Fuji 10V, 14V
Fuji DL-700
Fuji DL-3800

The HP Printer/Plotter

HP Portable
HP LaserJet III
HP LaserJet 4P, 4L, 4V
HP LaserJet 5L
HP LaserJet 6P, 6L
HP LaserJet 1100, 1100A
HP LaserJet 1200
HP LaserJet 2100, 2100M
HP LaserJet 2200
HP LaserColorJet 8500
HP DeskJet 400, 420
HP DeskJet 500, 550C, 560C
HP DeskJet 670C, 695C
HP DeskJet 720C
HP DeskJet 810C, 890C
HP DeskJet 920C
HP DeskJet 930C(new), 970CXI
HP DeskJet 1120C
HP DeskJet 1125C
HP DesignJet 350C
HP DesignJet 600C
HP LaserJet 4000
HP LaserJet 5000
HP OfficeJet T45, 710

The IBM Printer

IBM 5577
IBM 4039 16L
IBM Infor Printer 20
IBM InfoPrint 32

The Lexmark Printer

Lexmark 4039 10R
Lexmark 5700
Lexmark Optra Color 45
Lexmark Optra C710
Lexmark Optra E, E+, E310
Lexmark Optra K1220
Lexmark Optra M410, M412
Lexmark Optra N
Lexmark Optra R+
Lexmark Optra S1250, S1855
Lexmark Optra SC-1275
Lexmark Optra SE-3455
Lexmark Optra T614
Lexmark Optra W810
Lexmark Z53

The NEC Printer

NEC P2200
NEC P3200
NEC P5300
NEC P6300
NEC P7300

Other Printers

Brother HL-1260
CD T120
Citizen GSX-230
Futek 84+
OKI ML-391
OKIdata OL-400
Olivetti JP450
Panasonic 2023
Panasonic KX-P1624
Printtec PR856C
Star NX-2420
Tektronix Phraser 350

Other printers from the brands listed above may also be supported.
For an updated compatibility list please visit: http://www.support.dlink.com