

# **D-Link**

**DHN-120**

**10Mb Home Phonenumber**

**USB Adapter**

**User's Guide**

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# Chapter 1 Introduction

## DHN-120 Installation Guide and Networking Basics

The D-Link DHN-120 is ideal for the small office or home office environment. The DHN-120 enables you to add your computer to a network. After completing the steps in this manual, you will have the ability to share information and resources - such as files and printers - and take full advantage of a "connected" environment for work and play!

The DHN-120 comes with drivers for the most popular operating systems and can be integrated into a larger network. This Quick Starter Guide is designed to help you install the DHN-120 and connect the computer to a network running Windows 98 or Windows 2000.

The HomePNA standard allows you to connect computers and devices at speeds up to 10 Mbps. The DHN-120 is based on the newest HomePNA 2.0 standard. Older Network Cards, based on HomePNA 1.0, support speeds up to 1 Mbps. The DHN-120 is backwards compatible with HomePNA 1.0 products as well.

This Quick Starter Guide will take you through the steps of planning your network, installing the network hardware and software, and setting up Windows properly to use basic networking functions like printer and file sharing and playing network games. Take a moment to read through this manual and familiarize yourself with the steps necessary to complete the installation process. The entire process should take from one to two hours of your time. But, you should also give yourself some time to play with your new network!

## **Box Contents**

You should have the following items:

- 1 DHN-120 10 Mbps HomePNA 2.0 Network Adapter
- 1 Phoneline Cable
- 1 USB Cable
- DHN-120 Quick Starter Guide (This Manual)
- DHN-120 Driver CD

# Chapter 2 Installing Adapters and Cables

If you plan to set up two computers in the same room, you can use a single phone jack. Keep in mind that at all times at least one of the cards on your phonline network must be plugged into a phone jack. Also keep in mind that the phone jack must be for an active phone line. The phonline network cards depend on the small voltage that it is on your phone lines to function properly.

## Installing USB Adapters

USB is the simplest way to install a network adapter. It is a simple matter of using the included USB cable to connect the DHN-120 to an open USB port on any PC or laptop you wish to connect. Please make sure that each computer is off before plugging the unit in. Once you have created your network, you will be able to hot-plug the DHN-120 at will, but for the purposes of this manual it is best if you initially install the adapters with your computers powered off.

## Installing Cables

The cable included in the box is 15 feet in length. If you need a longer cable, they are sold at most electronics stores. If you want to use a phone on the same phone jack, we recommend that you purchase a splitter for the jack.

If you plan to use 2 or more phone jacks, make sure that they are (1) active and (2) on the same line (the same phone number). The Home Phonline adapters will NOT interfere with your normal phone, analog modem, or DSL modem but they do require an active phone line to work.

With the power off on your computers, run the first cable from your DHN-120 USB HPNA 2.0 Network Adapter directly to the phone jack. If you have two available phone jacks on the same line (telephone number) then simply repeat this step for any other machines you would like to add to your home phonline network like the picture below, Figure 1:



**Figure 1: Connecting Cables**

If you plan to have two computers in the same room and only have one phone jack, you can "daisy chain" the computers together. Simply run your first phoneline cable from one of ports on the first DHN-120 to an available, active phone line. Then run the second cable from the second port of the first DHN-120 to one of the ports on the second DHN-120.

If you have a free port available on the DHN-120, it can be used to plug in a phone or modem. The DHN-120 won't interfere with your phone, DSL, or modem signal.

Congratulations: The hardware is ready to be configured into a network.

# Chapter 3 Installing Software

You have completed the hardware installation necessary to start operating your network. But, before you start sending those print jobs to the printer in the other room or start playing fast paced network games with your family, you need to tell your computers that they are connected to a network – that is, you need to install the Networking System Software. This will consist primarily of installing device drivers for your Network Adapters. Device drivers help the operating system on your computer to identify and operate devices such as printers and Network Adapters.

## Installing Software under Windows 98

Since the DHN-120 is Plug-and-Play, Windows 98 recognizes that you have added a Network Adapter and requests that you provide the necessary device driver. The Windows 98 installation CD will be needed to complete this installation.

- A. Power ON your computer.

- B. Windows 98 will detect the new hardware, and will launch the Add New Hardware Wizard. The wizard will find your new "D-Link DHN-120", as shown in Figure 2.



**Figure 2: Add New Hardware Wizard**

- C. Insert the DHN-120 Drivers CD provided with your kit into your CD-ROM drive and click "Next >" to continue.



- D. In Windows 98, the wizard will ask you, "What do you want Windows to do?" Select "Search for the best driver for your device (Recommended)" and click "Next >" to continue, as shown in Figure 3.



**Figure 3: Search for Driver**

- E. The wizard will now ask you to identify the location to search. Ensure that "CD-ROM Drive" has a check in Windows 98 and click "Next >" to continue, as shown in Figure 4.



**Figure 4: Specify Driver Location**

- F. The wizard will find the driver on the CD and state its readiness to install the driver for the "D-Link DHN-120 10Mb Home Phoneline USB Adapter" Click "Next >" to continue, as shown in Figure 5.
- G. The wizard will install the driver and additional networking software from the Windows 98 CD-ROM. If requested, please provide the Windows 98 CD-ROM.



**Figure 5: Driver Installation**

- H. For Windows 98, the wizard will display that it has finished installing the driver. Remove the driver CD from the CD-ROM drive and click "Finish." Windows will ask to reboot click "Yes" and let your computer reboot, as shown in Figure 6.



**Figure 6: Click Finish to complete the installation**

## **Installing Software in Windows 2000**

Since the DHN-120 is Plug-and-Play, Windows 2000 will recognize that you have added a Network Adapter and request that you provide the necessary device driver. The Windows 2000 installation disks or CD will be needed to complete this installation.

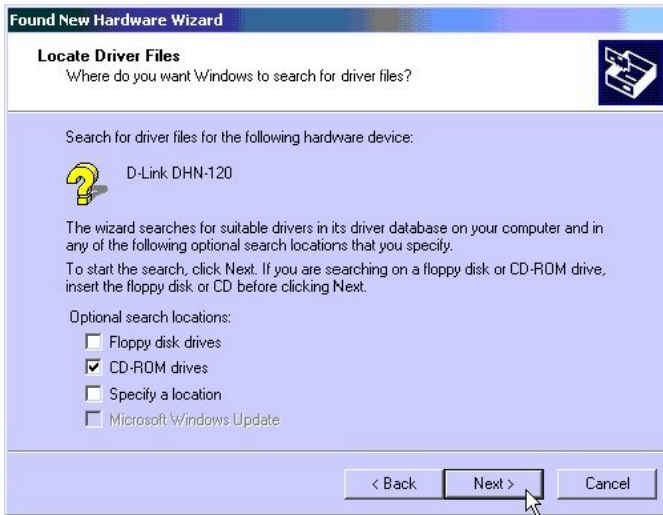
- I. Power ON your computer.

- J. Windows 2000 will detect the new hardware, and will launch the Add New Hardware Wizard. The wizard will find your new "D-Link DHN-120", see Figure 7.



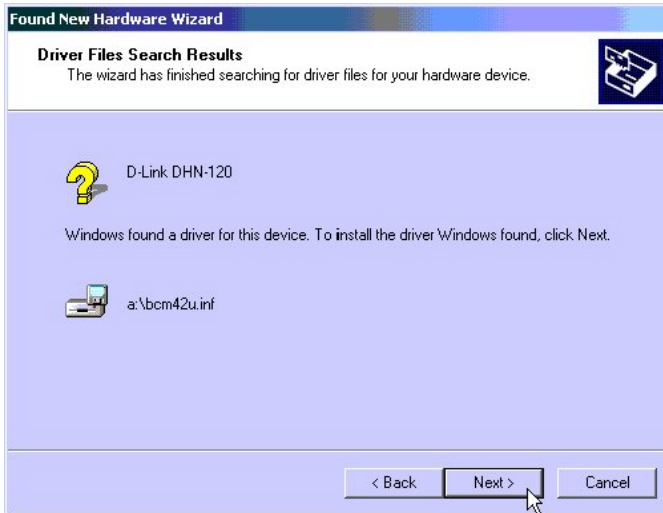
**Figure 7: Found New Hardware Wizard**

- K. Select "Search for a suitable driver for my device (recommended)" then click "Next>", see Figure 8.



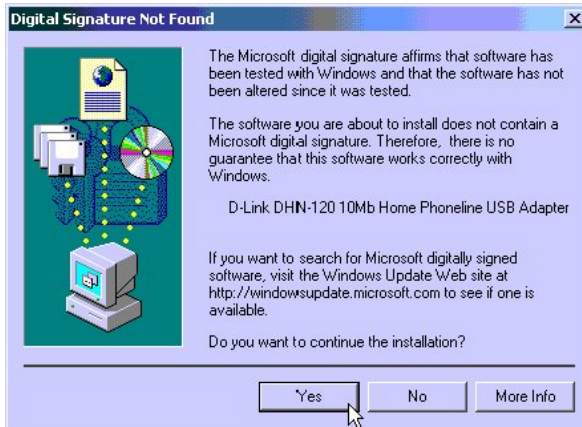
**Figure 8: Locate Driver Files**

- L. Make sure your DHN-120 installation CD is in your CD-ROM drive and the box next to "CD-ROM drives" is checked. Press "Next>", see Figure 9.



**Figure 9: Driver Files Search Results**

M. Windows will find the appropriate driver. Press "Next>"



**Figure 10: Digital Signature Not Found**

A. Press "Yes", see Figure 10.



**Figure 11: Completing the Found New Hardware Wizard**

N. To complete the installation, press "Finish", see Figure 11.

# Chapter 4 Networking Basics

You may have had some ideas about how to use your new network prior to installing the DHN-120 – sharing files, printing from any computer on the network, or accessing the Internet on multiple computers with one connection. This section will help you get started on those ideas or even give you some new ones. However, this section is not intended to be a comprehensive guide to networking, it is just an outline of a few networking basics.

If you are interested in learning more about networking, we have identified some Internet resources that may be of interest:

D-Link Systems, Inc.

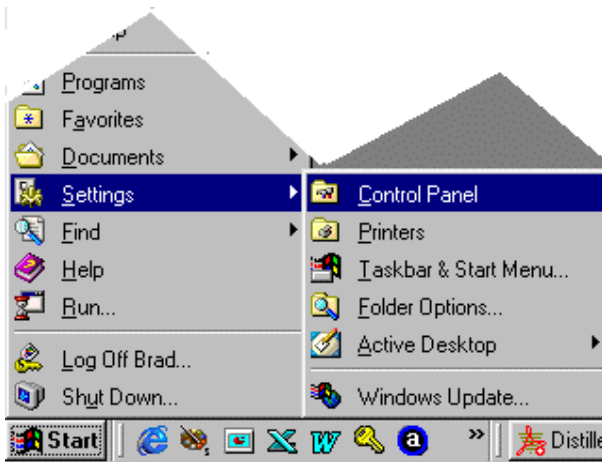
[www.dlink.com](http://www.dlink.com)

D-Link is one of the largest manufacturers of Ethernet products in the world. D-Link's technological expertise and dedication to providing quality products at a low price makes D-Link a good place to watch for the newest in networking innovations. Or, you may want to get the newest drivers available for your Network Adapters.

## TCP/IP Protocol

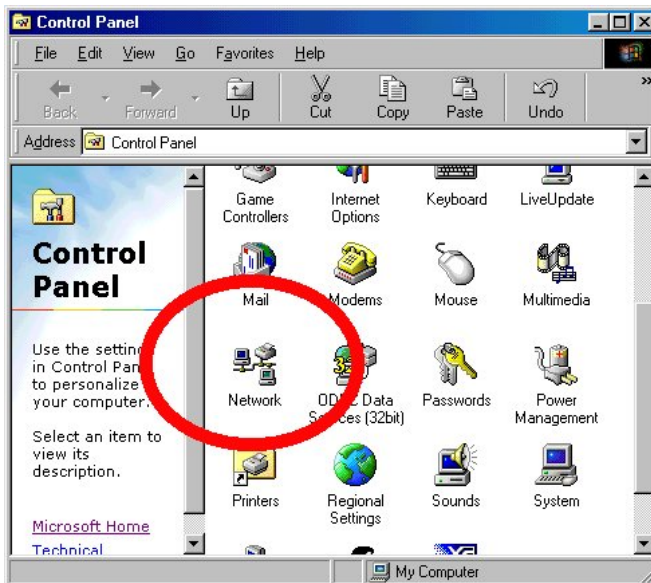
Before you start sharing files and printers, you need to set the IP address for each of your computers. An IP address is just that, an address. It tells other computers on the network where your computer is so that they can communicate. For your first computer you will add a fixed IP address. For each computer you add to the network, you will need to follow these same steps, but add a different address.

- O. From the Start menu, go to Settings-Control Panel, as shown in Figure 12.



**Figure 12: Start > Settings > Control Panel**

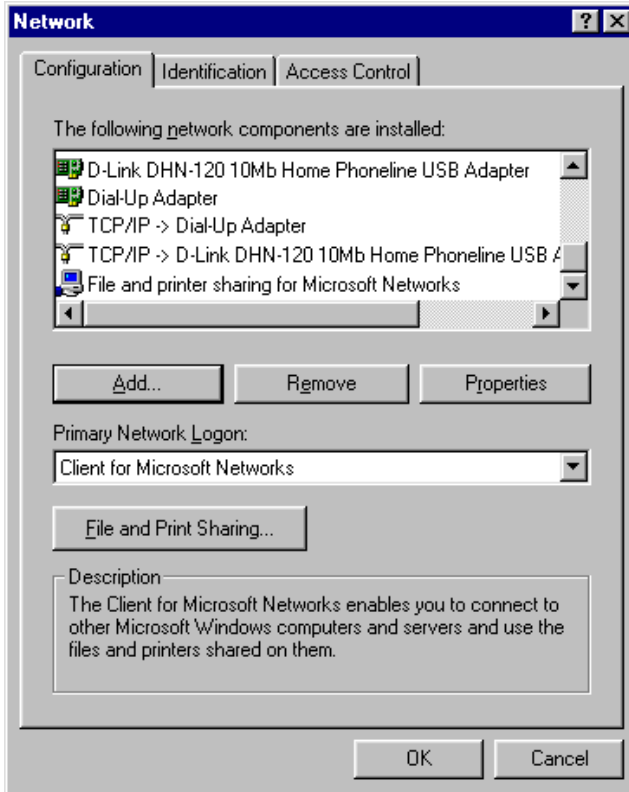
- P. Double Click the Network icon in the Control Panel, as shown in Figure 13.



**Figure 13: Control Panel**



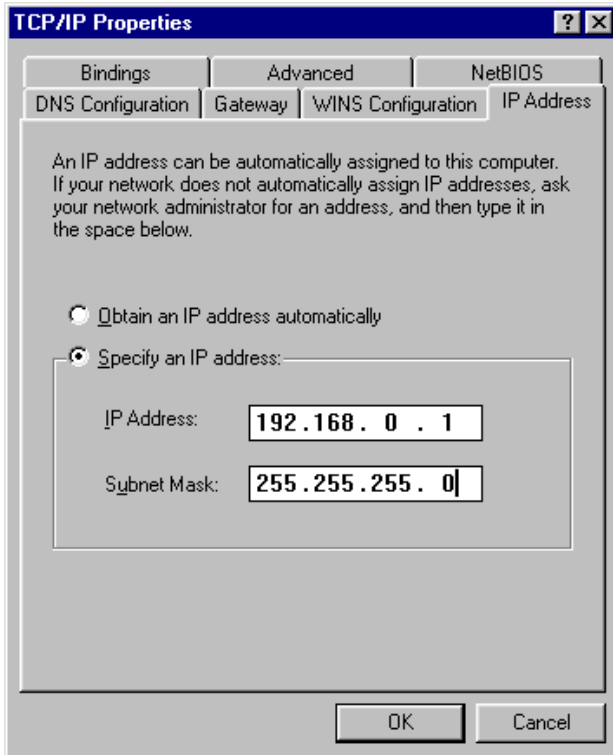
This Window will appear, as shown in Figure 14.



**Figure 14: Network**

- Q. Highlight the line that says "TCP/IP >D-Link DHN-120 10Mb Home Phoneline USB Adapter" and press the "Properties" button.

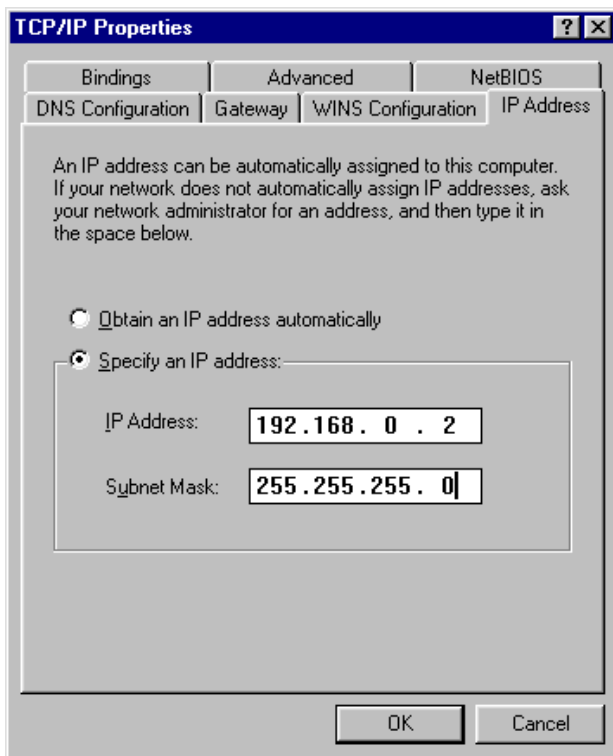
- R. This will open the TCP/IP properties window. Make sure the "IP Address" tab is selected and then press the circle next to "Specify an IP Address". Enter 192.168.0.1 for the IP address, and 255.255.255.0 for the Subnet Mask. After you have done this your screen should look like this, as shown in Figure 15:



**Figure 15: TCP/IP Properties**

- S. Now press OK, and press OK again. Your system will probably prompt you to reboot at this point, just answer "Yes". That's it!

For each computer on your network you will need to follow these same steps, with the exception that you will give each computer its own unique IP address. So for your second computer enter 192.168.0.2 for the IP address and 255.255.255.0 for the Subnet Mask. For your third computer set the address as 192.168.0.3 and so on (192.168.0.4 for the 4th, 192.168.0.5, for the 5th....etc.). It does not matter which computer is which number, just that each computer has its own unique number starting with 192.168.0.??? and the same subnet mask of 255.255.255.0, as shown in Figure 16.

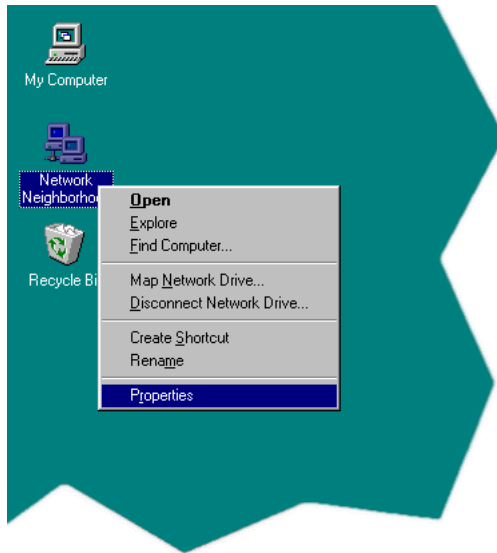


**Figure 16: Specify an IP Address**

## **Computer Identification**

You may need to verify that each computer has a unique name and common workgroup name.

- T. On your Desktop, right-click the icon "Network Neighborhood" and select "Properties" from the context menu, as shown in Figure 17.



**Figure 17: Network Neighborhood**

- U. Click the "Identification" tab on the top of the dialog box.
- V. Type a unique, identifying name for this particular computer in the "Computer name:" box. This will be the name that other computers on your network will use to communicate with this computer. Each computer's name must be unique on a particular network or confusion will result. (The computer's name should be 15 or fewer characters with no spaces.)
- W. Type the workgroup name this computer will be a part of in the "Workgroup:" box. All of the computers on your network should have an identical Workgroup name.
- X. The "Computer Description:" box is optional. You may enter a description that will help you identify this computer on your network. Then click "OK".

- Y. Repeat this process for each computer on your network to ensure that they all have a unique "Computer Name" and identical "Workgroup", as shown in Figure 18.

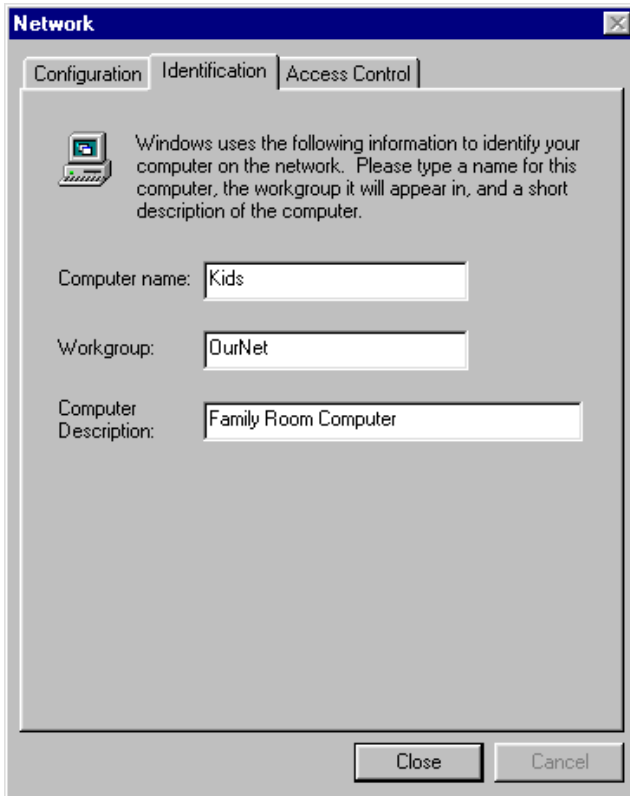
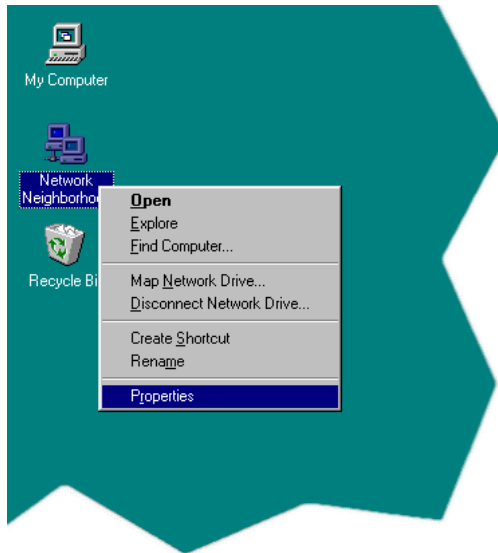


Figure 18: Network

## Sharing Files

With your computers connected together on a network, you may now open and save files on another computer. You will be able to specify particular folders or disk drives to "share" and even password protect them. The steps below will enable you to share specific files and folders with other computers on your network.

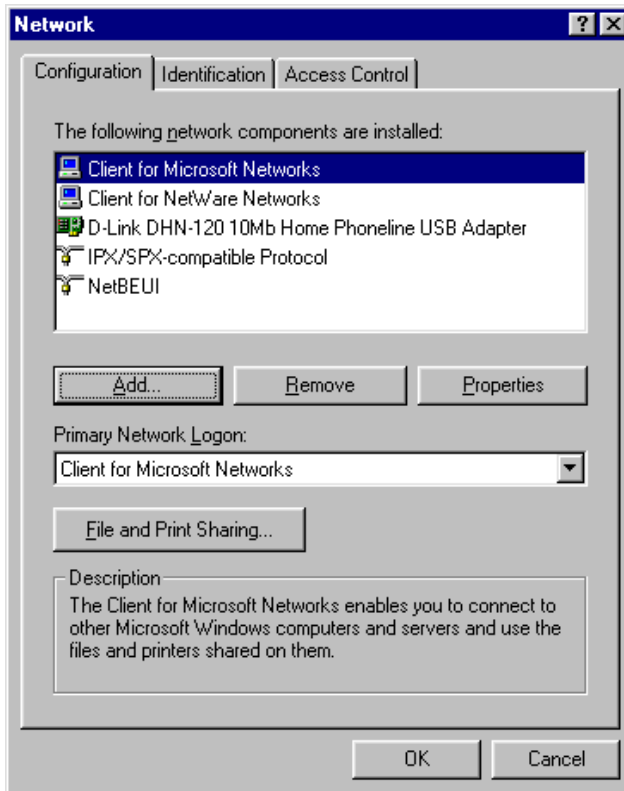
- Z. On your Desktop, right-click the icon "Network Neighborhood" and select "Properties" from the context menu, as shown in Figure 19.



**Figure 19: Network Neighborhood**

- AA. This dialog box is where you will come to configure most of your computers network settings. It is also available through the "Network" icon in the Control Panel.

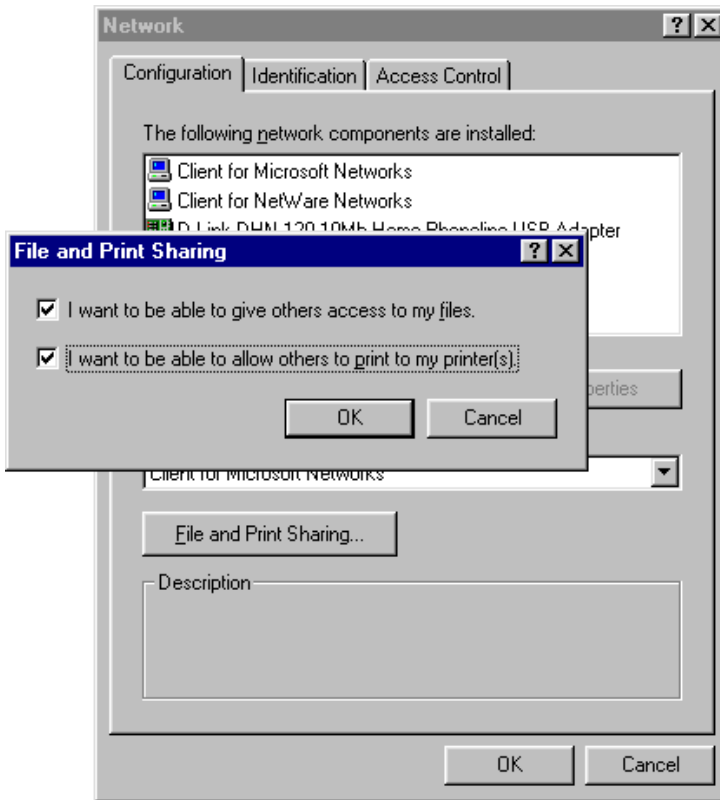
- BB. Click the "File and Print Sharing..." button, as shown in Figure 20.



**Figure 20: Network**

- CC. Click to place a check mark next to "I want to be able to give others access to my files."
- DD. Click "OK" on the "File and Print Sharing" dialog box.
- EE. Click "OK" on the "Network" dialog box.

- FF. Provide the Windows 98 installation CD or diskette(s) if prompted or direct Windows to the proper location of the installation files. Reboot if prompted, as shown in Figure 21.

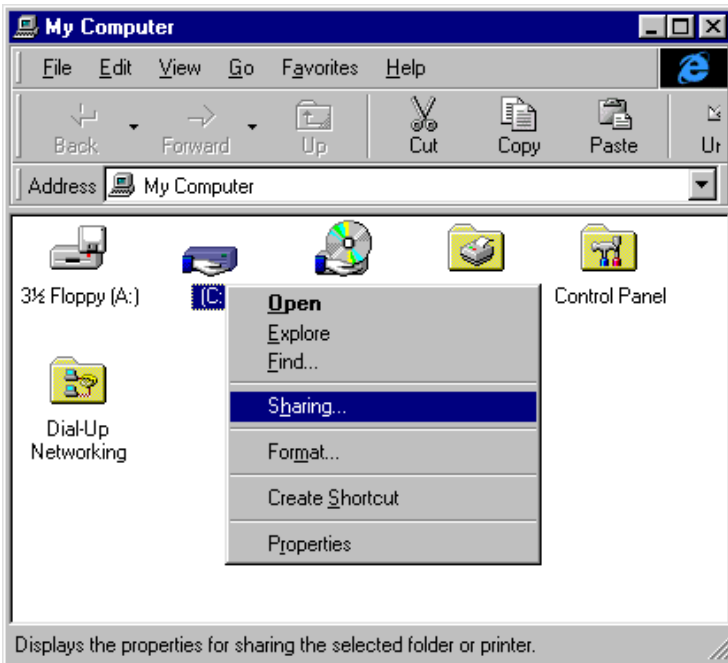


**Figure 21: File and Print Sharing**

- GG. You will now be able to identify a particular folder or disk drive to share. You may want to share a folder that both you and a colleague/family member needs to access occasionally. Or, maybe you want to share a CD-ROM drive so your other computer that does not have one can read CD's. Both of these processes are the same. Only the disk drives and folders that you specifically identify as shared will be accessible to other computers on your network.
- HH. Find the disk drive or folder you want to share with Windows Explorer or the "My Computer" icon on your desktop.



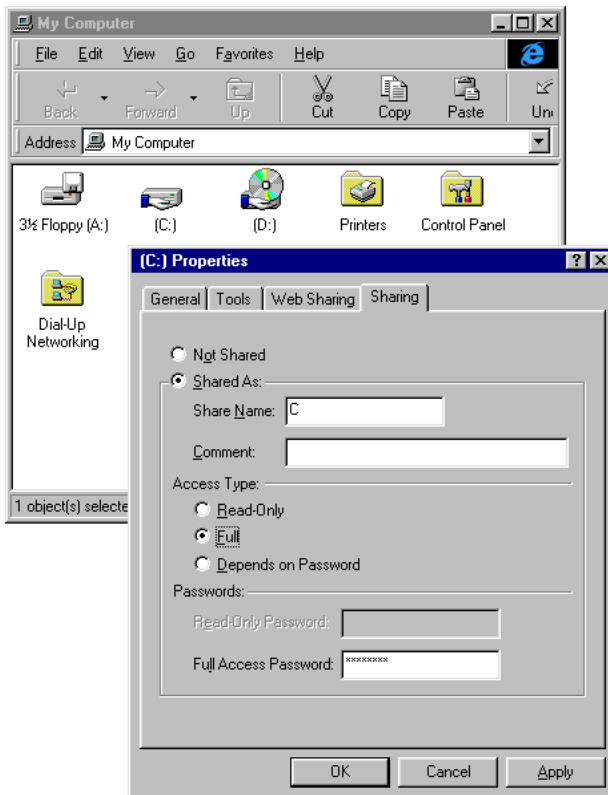
- II. Right-click on the disk drive or folder icon and select "Sharing...", as shown in Figure 22.



**Figure 22: My Computer**

- JJ. Select "Shared As:" to set the parameters for sharing this particular disk drive or folder.
- KK. The "Share Name:" box is used to identify the disk drive or folder you are sharing to other computers on the network. You can give it any name you wish. However, a specific identification may help as more resources on your network are shared.
- LL. The "Comment:" box is optional. You can use this box to further describe the disk drive or folder for others on the network.
- MM. "Access Type:" allows you to designate how much someone else on the network can do with this disk drive or folder. "Read-Only" allow others to only look at or open the files on the disk drive or in the folder. "Full" allows other to read, write, open, save, copy, move, and delete files on the disk or in the folder. "Depends on Password" gives other computers access conditional upon the password they provide.

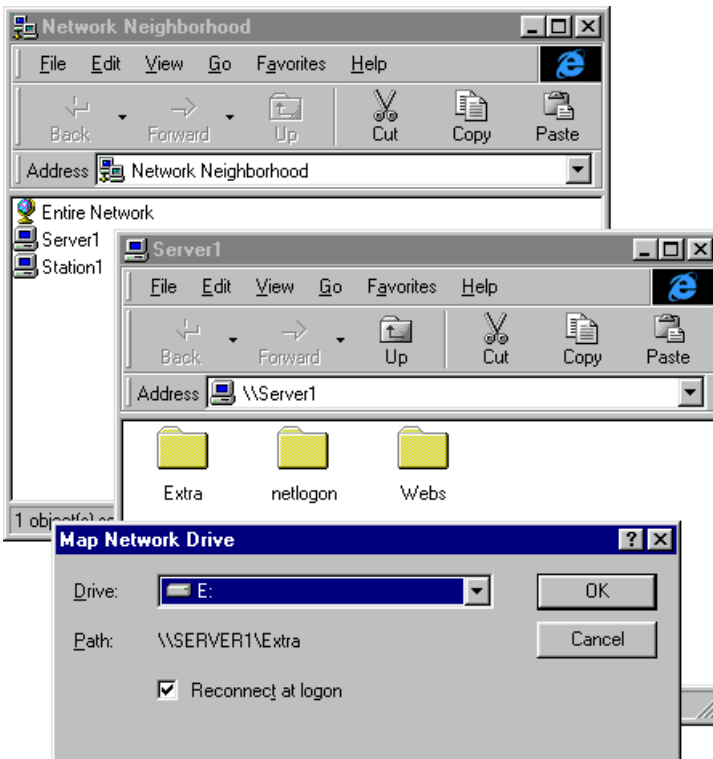
- NN. "Passwords:" allow you to apply a level of security to your shared disk drives and folders. Another computer (user) will be required to enter the password you designate here before accessing the disk drive or folder. Two passwords are used to give two levels of security (or access) to others on the network using the "Depends on Password" setting. Leaving the "Password" boxes empty gives everyone on the network access to the disk drive or folder.
- OO. Click "OK" to continue. You will be prompted to enter the password(s) you provided for verification. Retype the password(s) just as you entered them the first time, Figure 23.



**Figure 23: Properties**

- PP. You may now access this disk drive or folder from another computer on your network. Do so by double-clicking the "Network Neighborhood" icon on your desktop or inside Windows Explorer.

- QQ. Navigate to the computer with the shared disk drive or folder (recognized by the "Computer Name" you provided) and double-click. You should now see the disk drive or folder, double-click. If you specified a password when sharing this disk drive or folder, you will be prompted for the password.
- RR. You can access a disk drive or folder shared over the network from most Windows 98 applications. To make this process easier, Windows allows you to map these disk drives and folders to a drive letter on another computer. For example, on a computer where you are accessing a shared folder from another computer, inside Windows Explorer right-click and select "Map Network Drive..." You will then be able to assign an available drive letter. Checking "Reconnect at logon" allows Windows to map this network drive each time you start your computer, as shown in Figure 24.

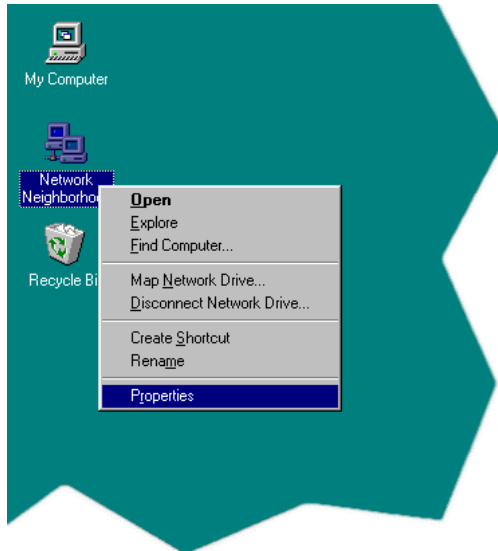


**Figure 24: Map Network Drive**

# Sharing Printers

"Sharing" a printer connected to one computer with other computers on your network can be very convenient -- allowing you to print from any computer on the network. The steps below will enable you to print with other computers on your network.

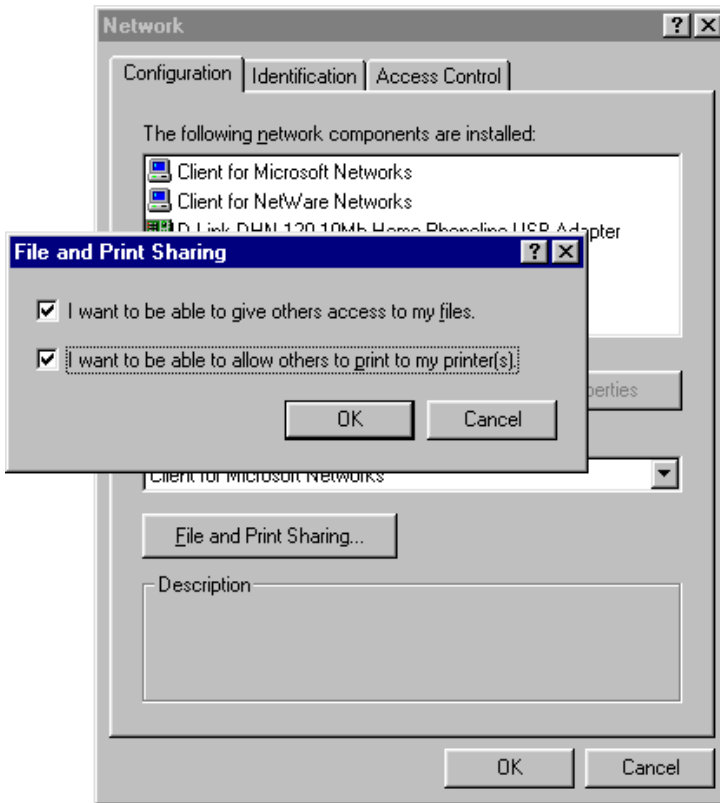
- SS. On your Desktop, right-click the icon "Network Neighborhood" and select "Properties" from the context menu, Figure 25.



**Figure 25: Network Neighborhood**

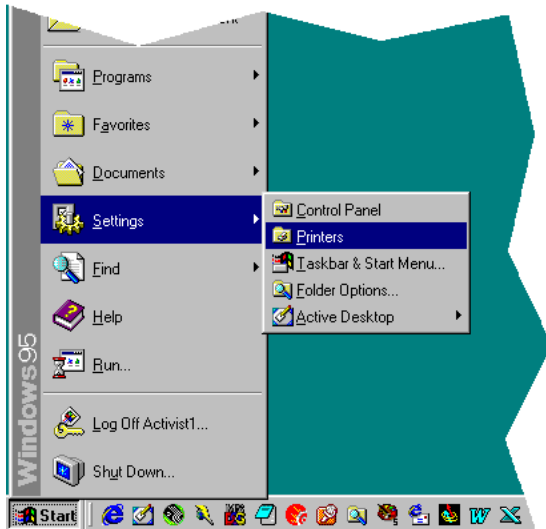
- TT. Click the "File and Print Sharing..." button.
- UU. Click to place a check mark next to "I want to be able to allow others to print to my printer(s)."
- VV. Click "OK" on the "File and Print Sharing" dialog box.
- WW. Click "OK" on the "Network" dialog box.

- XX. Provide the Windows 98 installation CD or diskette(s) if prompted or direct Windows to the proper location of the installation files. Reboot if prompted, as shown in Figure 26.



**Figure 26: File and Print Sharing**

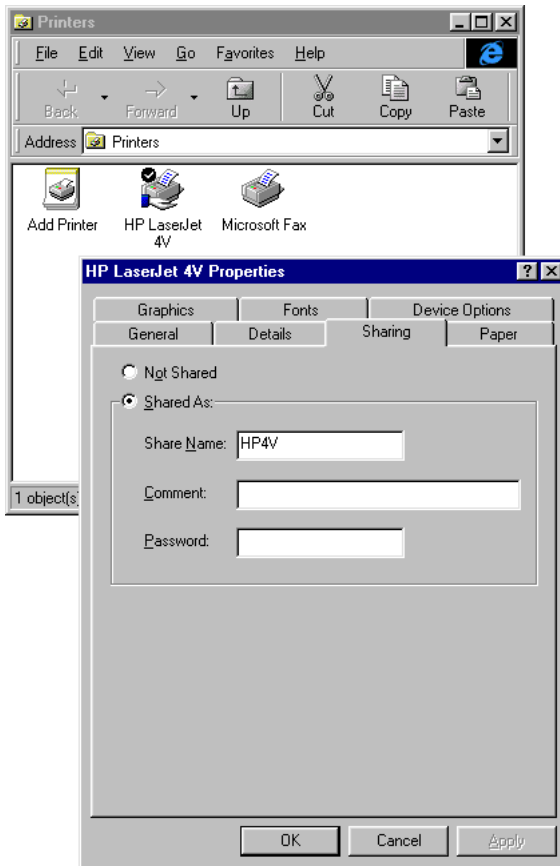
YY. You may now share any installed printers connected to this computer with other computers on your network. From the "Start" button on the Task Bar select "Setting" and then "Printers", as shown in Figure 27.



**Figure 27: Printers**

ZZ. Right-click on the printer you want to share with others on the network and select "Sharing..."

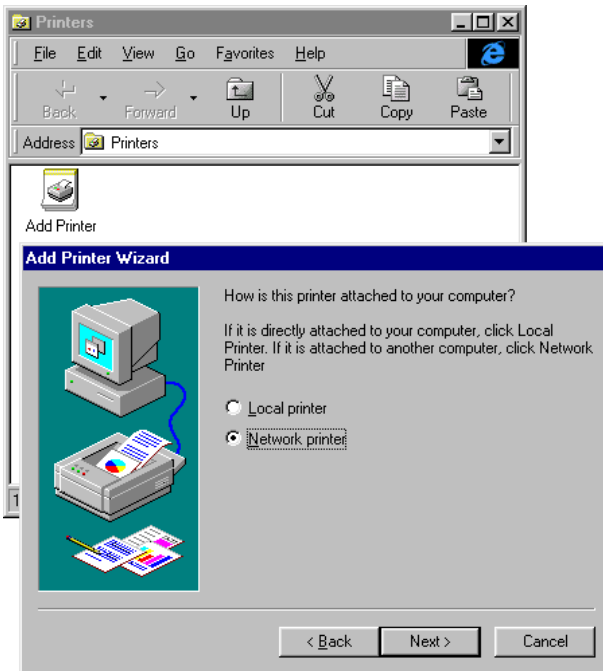
AAA. Click "Share As:" and provide a "Share Name:" to identify the printer to other computers on the network. "Comment:" and "Password:" are optional. Then click "OK", as shown in Figure 28.



**Figure 28: Printer Properties**

BBB. Shared printers become Network Printers for other computers on the network. For a computer to access a Network Printer, the device driver or software for that printer must be installed and pointed to the proper location of the printer. This is done much the same way you installed the printer on the computer it is connected to.

- CCC. Go to the computer that you would like to be able to print from using the network. From the "Start" button on the Task Bar select "Settings" and then "Printers".
- DDD. Double click the "Add Printer" icon.
- EEE. The "Add Printer Wizard" will appear. Click "Next >".
- FFF. Choose "Network printer" and click "Next >", as shown in Figure 29.

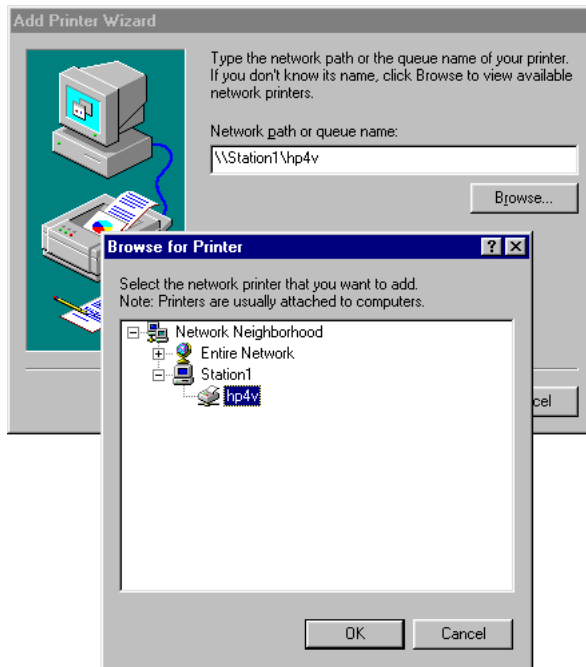


**Figure 29: Add Printer Wizard**

- GGG. Now you will identify the location of the Network Printer. If you know the name of the computer and the share name of the printer, you can type it into the "Network path or queue name:" box. However, it is easier to click the "Browse..." button and navigate to the location of the printer. Click "OK" when you have selected the desired printer. Finish the installation by continuing the "Add Printer Wizard" normally.
- HHH. You may now use the Network Printer as if it was connected directly. Note: the computer that the printer is connected to must



be on to use the printer. If you find this inconvenient, devices known as Network Print Servers are available from D-Link. The DP-101 and DP-301 can each support a single printer. The DP-300 and DP-100 will support up to three. A Network Print Server would allow you to directly connect your printer to your network, so you wouldn't have to worry which computer is turned on, as shown in Figure 30.



**Figure 30: Browse for Printer**

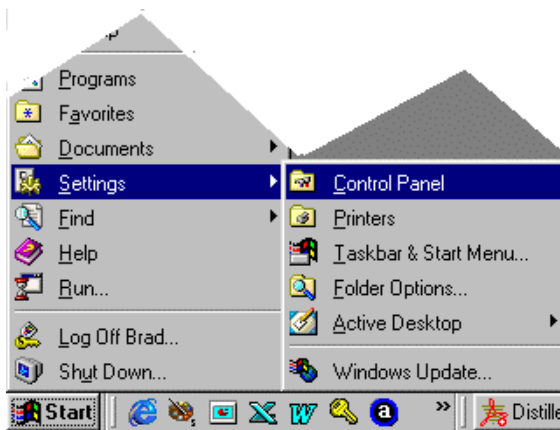
## Playing Network Games

Part of the fun of having a network, is being able to play some of today's hottest games against friends and family. While a game may be fun when played in single player mode, or even against competitors across the Internet, playing someone in the same room across a network rocks!

If you followed the directions in this guide, you should have TCP/IP installed already. If you don't or are not sure, jump back to the beginning of the

Networking Basics section for a walk through. Some games may require IPX protocol support as well. To add IPX to each computer follow these steps:

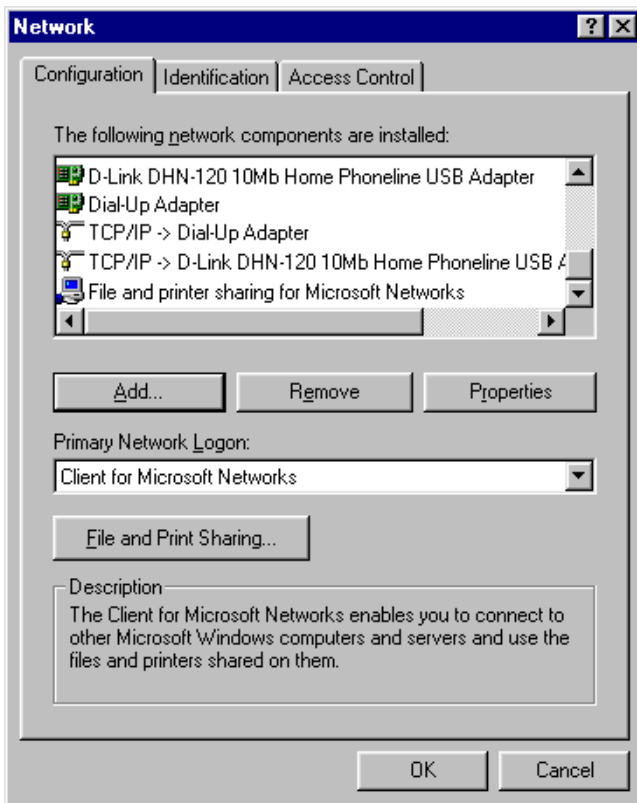
- III. From the Start menu, go to Settings-Control Panel, as shown in Figure 31.



**Figure 31: Control Panel**

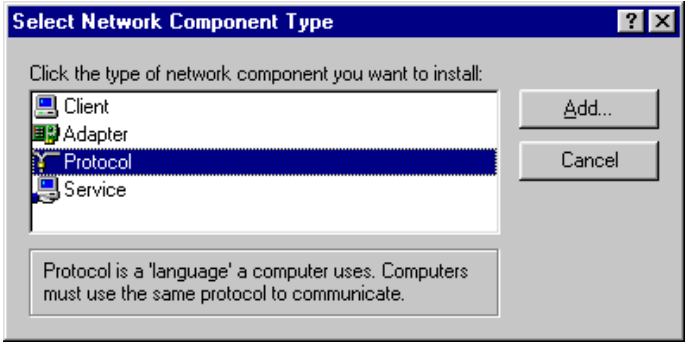
Double Click the Network icon in the Control Panel.

This window will appear, as shown in Figure 32:



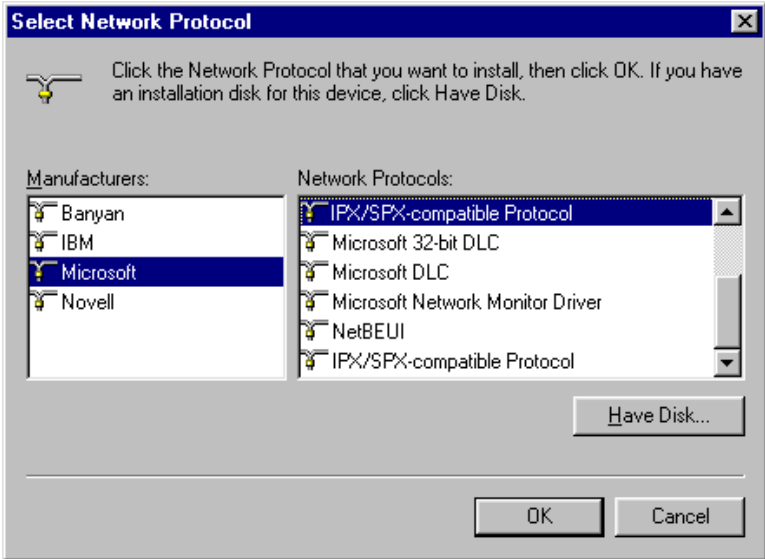
**Figure 32: Network**

Next press the “Add” button.



**Figure 33: Select Network Component Type**

Choose “Protocol” and press “Add”, as shown in Figure 33



**Figure 34: Select Network Protocol**

Press “OK”, see Figure 34.

Windows may ask you for your original Windows installation CD and then to reboot. Once completed, the protocol will be available to your network adapter. Follow these steps for each computer on your network.

D-Link has included Shareware versions of two very popular network playable games from Blizzard, Diablo and WarCraft II. To install these games, place the accompanying D-Link CD into your CD-ROM drive. Allow the CD to autostart and you will see a window with links for installing these games and other software included on the CD. You may also browse the CD using Windows Explorer.

Before installing Diablo or WarCraft II, please select the installation for Microsoft DirectX 6.0 if it is not already available on your computer. DirectX is a multimedia enhancement for Windows 95/98.

To play Diablo or WarCraft II with another computer on the network, you must install the games on both computers. Each user must select "Multi Player" and then "Local Area Network (IPX)". Follow the instructions above to make sure that IPX is installed on each computer..

Have fun!

This CD includes Microsoft DirectX 6.0, Diablo and WarCraft II: Tides of Darkness. Insert the CD in your CD ROM drive, click on Networking Basics and then click on Playing Network Games. Click on the links and follow the instructions to install the game of your choice and Microsoft DirectX. 6.0.

# Chapter 5 Troubleshooting

A network can be simple to install and maintain. However, occasionally something might go wrong. The best approach to troubleshooting network problems is to start at the very simplest level and work your way up.

## Verify Each Computer's Identification

If more than one computer on your network has the same "Computer Name", communications may be negatively affected. Also, each computer must have the same "Workgroup" name to communicate properly. Use the steps in Networking Basics to ensure that each computer on your network has a unique "Computer Name" and an identical "Workgroup".

## Verify Network Adapter Installation

If your Network Adapters were not properly installed, including the Network System Software or device drivers, your network will not function properly. Use these steps to verify that your Network Adapters are properly installed, see Figure 35:

- JJJ. Double-click the "System" icon in the Control Panel.
- KKK. Click the "Device manager" tab on top of the "System Properties" dialog box.
- LLL. Double-click "Network adapters" if you do not see any items branching out. You should see "D-Link DHN-120 10Mb Home Phonenumber USB Adapter" branching out after double-clicking "Network adapters."
- MMM. If you do not see any items branching out after double-clicking "Network adapters," your Network Adapter has not been properly installed. Start at the beginning of the guide and follow all the steps for this computer.
- NNN. If you see any kind of symbol such as a yellow exclamation point or red "X" over the icon adjacent to "D-Link DHN-120 10Mb Home Phonenumber USB Adapter", your adapter is not installed properly or may have a problem. Double-click "D-Link DHN-120

10Mb Home Phoneline USB Adapter" to read the explanation of the problem. This information will be helpful if you require technical support from D-Link.

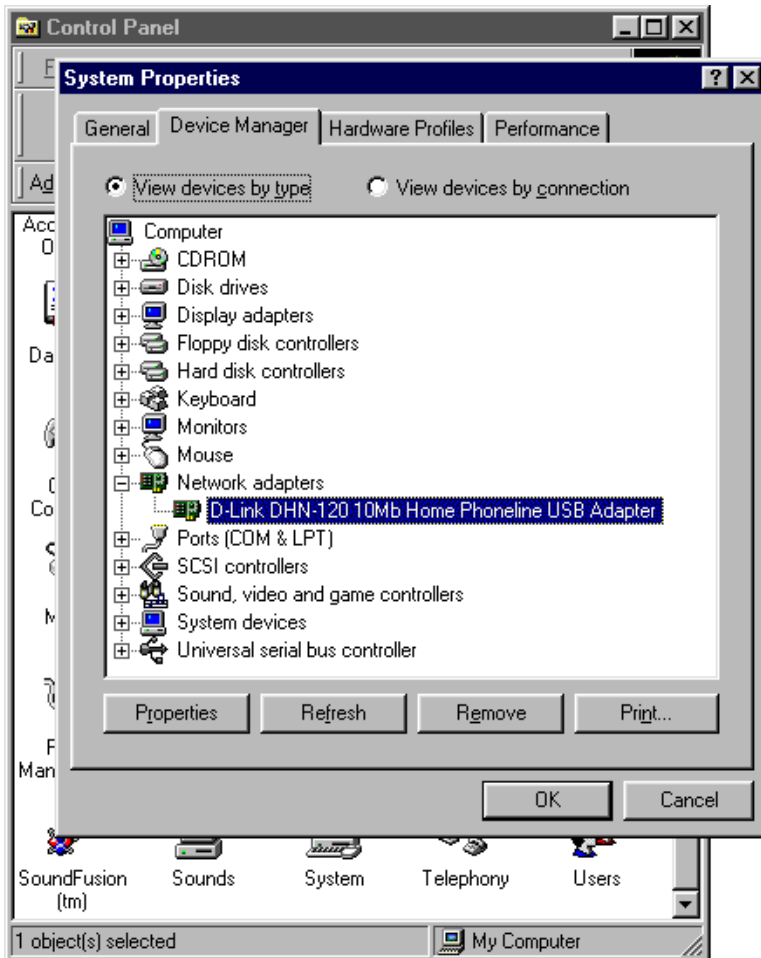


Figure 35: System Properties

## Verify Cable Connections

Check to see that the computer(s) you are troubleshooting are properly connected to either a phone jack or another computer. Also make sure that if both computers are connected to phone jacks, that the phone line (and phone number) is the same for both jacks. You may want to plug a phone into each phone jack to ensure that it is working properly.

## Understanding Indicators

Your Network Adapters have indicators or lights that can give you information about your network traffic and help you determine problems when troubleshooting.

Your DHN-120's have three indicators labeled "Link", "Activity", and "Power" at the front of their top panels. A steady green "LINK" light indicates a good connection between cards. A flashing green "Activity" light indicates that the Network Adapter is sending or receiving data. A steady green "Power" light indicates that the DHN-120 is receiving enough power.

Please note that if the DHN-120 is plugged into a USB hub, or a USB port on a monitor, that the port must be self-powered. If the "Power" light is not steady green, you may want to plug the DHN-120 directly to a USB port on your computer.  
empowered you to do.



# Technical Specifications

<b>Standards:</b>	HomePNA 2.0 Compliant USB Specification version 1.0/1.1 Compliant OHCI, UHCI
<b>Required Current:</b>	500MA bus current as a standard USB high-power device
<b>Ports:</b>	One upstream (USB Type B receptacle) Two RJ-11 (HomePNA 2.0)
<b>Diagnostic LEDs:</b>	Power Link (RJ-11) Activity (RJ-11)
<b>Temperature:</b>	Operating Temperature: 0°C to 50°C Storage Temperature: -25°C to 55°C
<b>Humidity:</b>	10% to 90%, non-condensing
<b>Power Requirements:</b>	Bus Powered 2.5 W, 0.5 A @ 5 VDC
<b>Compliances:</b>	CE, FCC Class B, VCCI, C-Tick, BSMI
<b>Safety:</b>	CSA International

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BBS: 1-949-455-1779, 1-949-455-9616  
URL: www.dlink.com E-MAIL: tech@dlink.com, support@dlink.com

# Contacting 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/ 7 days a week

*D-Link Technical Support over the Internet:*

<http://support.dlink.com>

email: [support@dlink.com](mailto:support@dlink.com)

## **Tech Support for customers within Canada:**

*D-Link Technical Support over the Telephone:*

(800) 361-5265

Monday to Friday 7:30am to 12:00am EST

*D-Link Technical Support over the Internet:*

<http://support.dlink.ca>

email: [support@dlink.ca](mailto: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*

# D-Link®

## Building Networks for People

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Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for 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, or addresses with an APO or FPO.

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

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any 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, at its option, 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 or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual 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 ("Software 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 Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, 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 the portion of the actual purchase price paid that is attributable to the Software. 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. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. 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 portions 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, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.com/>.
- 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 and shipped to **D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708**. 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. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer.

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:** The Limited Warranty provided herein by D-Link does not cover: Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care,

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**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 information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.**



# Registration



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.