D-Link®

DSL-200 ADSL USB Modem
User's Guide

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RECYCLABLE

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FCC Warning

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.
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 generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning 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.

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.

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About This User's Guide

This user's guide tells you how to install your DSL-200 ADSL USB Modem and use it to connect to the Internet.
ADSL services are provided by, and sold by a variety of businesses. Your ADSL service provider may be your telephone company, an Internet service provider (ISP), a business that specializes in providing network services or a combination of any of these. This guide uses the generic terms DSL service provider and network service provider, to refer to any business or agent that provides DSL service.

Overview of the User's Guide

- Chapter 1 – Introduction provides a brief description of ADSL technology and a general description of the Modem and its features.
- Chapter 2 -*Modem Installation* provides instructions for the physical installation of the Modem and cable connections.
- Chapter 3 – *Software Installation* is a step-by-step description of the installation of the software driver needed for Modem operation.
- Chapter 4 – Connect to the Internet, you can establish an Internet connection indirectly.
- Chapter 5 – *Monitoring the Modem* describes the various status monitoring functions available with the Modem.
- Chapter 6 – Changing Modem configuration, you can change modem configuration once the modem and software have been installed the communication settings may be easily updated.
- Chapter 7– *Uninstalling the Modem* describes the steps necessary to uninstall the Modem and its driver.
- Appendix A – *Technical Specifications* is a list of specifications for the Modem.

Before You Start

In addition to the Modem hardware and software drivers, you will to gather information before you begin to install the device. Your DSL service provider will give you information required for a successful ADSL connection. You will use this information when you decide which driver to install and when you configure the Modem. In order to avoid problems please read this section and make sure you understand all the prerequisites for proper installation of your new Modem.

Operating Systems

The D-Link DSL-200 can be used with PCs running Microsoft® Windows 98 Second Edition, Windows 2000, Windows Millennium Edition, Windows XP or Windows XP x64 Edition.

✓USB Port

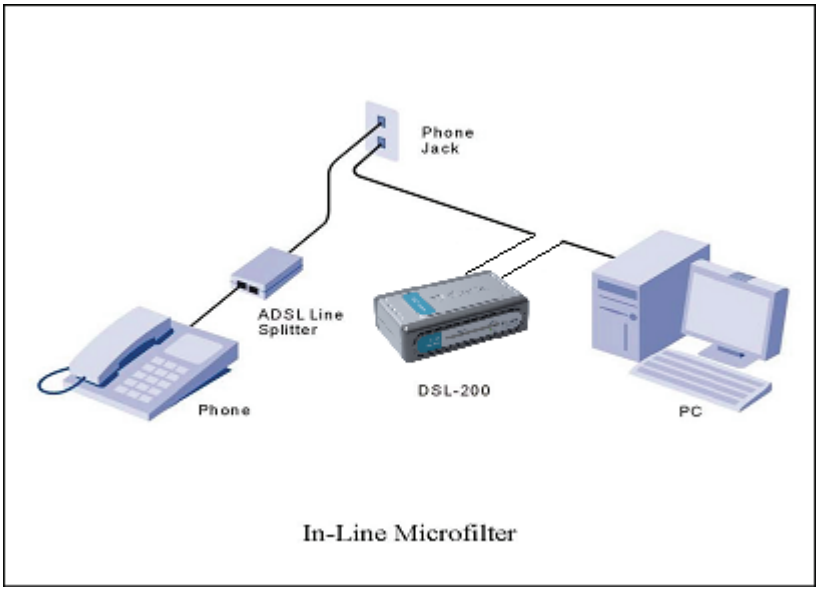
In addition to the Windows OS, you will need a USB (Universal Serial Bus) type B port on your computer. These are commonly installed on newer computers; however older PCs may require an additional installation.

Microfilters and Splitters

Most ADSL clients will be required to install a simple device that prevents the ADSL line from interfering with regular telephone services. These devices are commonly referred to as microfilters or sometimes called (inaccurately) line splitters. They are easy to install and use standard telephone connectors and cable.
Some DSL service providers will send a telecommunications technician to modify the telephone line, usually at the point where the phone line enters the building. If a technician has divided or split your telephone line into two separate lines -one for regular telephone service and the other for ADSL – then you do not need to use any type of filter device. Follow the instructions given to you by your DSL service provider about where and how you should connect the Modem to the ADSL line.

Microfilters

Unless you are instructed to use a "line splitter" (see below), it will be necessary to install a microfilter (low pass filter) device for each telephone or telephone device (answering machines, Faxes etc.) that share the line with the ADSL service. Microfilters are easy-to-install, in-line devices, which attach to the telephone cable between the telephone and wall jack. Microfilters that install behind the wall plate are also available. A typical in-line microfilter installation is shown in the diagram to the right.



In-Line Microfilter

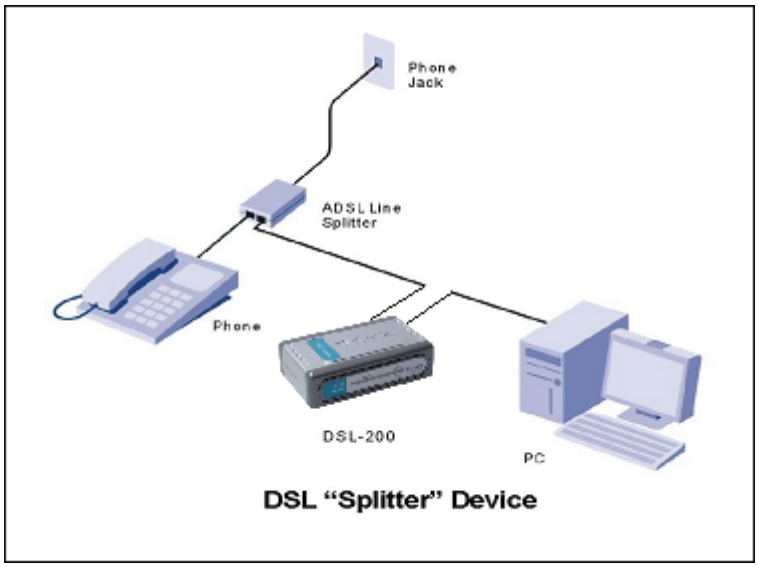
Note: Do not install the microfilter between the Modem and the telephone jack. Microfilters are only intended for use with regular telephones, Fax machines and other regular telephone devices.

Line Splitter

If you are instructed to use a "line splitter", you must install the device between the Modem and the phone jack. Use standard telephone cable with standard RJ-11 connectors. The splitter has three RJ-11 ports used to connect to the wall jack, the Modem and if desired, a telephone or telephone device. The connection ports are typically labeled as follows:

Line - This port connects to the wall jack.
ADSL – This port connects to the Modem.
Phone – This port connects to a telephone or other telephone device.

This diagram illustrates how a line splitter should be installed.



DSL "Splitter" Device

ADSL Service

In order to use the Modem you must first have ADSL service established with a DSL service provider.

There are four standards used for ADSL connections known as ANSI T1.413 issue 2, G.Lite, G.dmt and G.hs. The standards differ somewhat as to data transfer speed or bit rate. For user convenience, the Modem supports the G.hs Auto-handshake ADSL standard. This allows the Modem to operate with either type of connection.

Network Protocol and the Software Driver

The protocol used for your ADSL service will determine the particular software driver to be installed. You will need to select one driver to operate the Modem. Ask your DSL service provider to assist you in selecting either the LAN (Local Area Network) or WAN (Wide Area Network) driver to operate the Modem.

If your ADSL service uses PPP (Point-to-Point Protocol) to establish the connection, you will install the WAN driver. Using a PPP connection will be familiar to anyone who has used a conventional dial-up analog modem for Internet connection. PPP is used to verify the user's identity and to control access to the network. A PPP session requires that a user name and password be given before gaining access to network services. PPP sessions are ended when you log-off and terminate your connection to the service provider's network. Specifically, if your ADSL service uses the protocol defined by RFC 2364, PPP over ATM Adaptation Layer 5, or RFC 2516, PPP over Ethernet, install the WAN driver.

If the protocol used for your ADSL service is defined by RFC 1483, Multiprotocol Encapsulation over ATM Adaptation Layer 5 (Bridged Ethernet), then you will need to install the LAN driver. LAN driver users may be required to manually configure your IP settings. Your DSL service provider will tell you if you need to configure your PCs IP settings.

The drivers are fundamentally different in the way they relate to operating system of the computer. The computer/Modem relationship can be summarized as follows:

WAN driver – To your computer, the Modem appears as a conventional dial-up modem device, the Modem employs the same Microsoft Dial-Up Networking software. There is no actual dialing or any activity in the voice band frequencies on the telephone line, but you must still provide a user name and password to log-on.

LAN driver – To your computer, the Modem appears as an Ethernet device.

Connection is automatic, similar to a connection to an Ethernet device.

Encapsulation Method

It may be necessary to use an encapsulation method that is different from the default method. The protocol used for your connection, and thus the driver you use will determine which encapsulation method is used. If your DSL service provider does not specify, use the default encapsulation method.

Modulation Technique

It may be necessary to use a modulation method that is different from the default method. If your DSL service provider does not specify, use the default modulation method called Multimode.

Use the tables provided here to record the information you need to install the Modem.

SETTINGS TABLE (all users)	
VPI:	**VCI:**
Software Driver: The driver used depends on the connection protocol used for your network services. ➢ Select the **WAN driver** if your connection is a **PPP connection**. That is if you are using RFC 2364 PPP over ATM or RFC 2516 PPPoE PPP over Ethernet. ➢ Select the **LAN driver** if you are using RFC 1483 **Ethernet over ATM**.	
Encapsulation Method: (choose one) **WAN Driver:** RFC 2364 PPPoATM NULL Encapsulation RFC 2364 PPPoATM LLC Encapsulation RFC 2516 PPPoE Encapsulation **LAN Driver:** RFC 1483 IPoATM Bridged LLC Encapsulation RFC 1483 IPoATM Bridged VC Encapsulation RFC 1483 IPoATM Routed LLC Encapsulation RFC 1483 IPoATM Routed VC Encapsulation	
Modulation Method: (choose one) T1.413 Multimode G.Lite G.DMT	

ACCOUNT INFORMATION (WAN driver users only)
User Name:
Password:

IP CONFIGURATION (LAN driver only)
IP Address:
Subnet Mask:
Gateway:
DNS Host Name:
DNS Domain:
DNS Server:

1

INTRODUCTION

ADSL modem technology is a relatively new technology and may be unfamiliar to the reader. In this section, we introduce you to ADSL technology and give a brief description of its key attributes. We also give a general description of the D-Link DSL-200 USB Modem and its main features.

What is ADSL?

Asymmetric Digital Subscriber Line (ADSL) is an access technology that utilizes ordinary copper telephone lines to enable broadband high-speed digital data transmission and interactive multimedia applications for business and residential customers. Using existing phone lines avoids the need for adding expensive new cable.

ADSL modems use digital coding techniques that greatly increase the bandwidth capacity of telephone lines without interfering with regular telephone services. For the ADSL modem user, this means much faster data communications. ADSL modems make it possible to enjoy benefits such as high-speed Internet access, telecommuting, collaborative computing, distance learning, movies on demand and multi-player video gaming without experiencing any loss of quality or disruption of voice/fax telephone capabilities.

ADSL provides a dedicated service over a single telephone line operating at speeds of up to 8 Mbps downstream (to the user) and up to 640 Kbps upstream, depending on the type of service and local telephone line conditions. These conditions are ideal for many user applications. A secure point-to-point connection is established between the user and the central office of the local telephone company. The user is always connected, thus eliminating dial-up time and simplifying connectivity issues.

D-Link ADSL devices incorporate the recommendations of the ADSL Forum (www.adsl.com) regarding framing, data format, and upper layer protocols.

Modem Description and Operation

The DSL-200 ADSL USB Modem is easy to install and use. Please note that you must first install the software driver for the device by following the instructions in Chapter 3. Once the driver has been installed you can connect the Modem to your computer. The Modem connects directly to any functional USB port on a PC with standard USB cable.

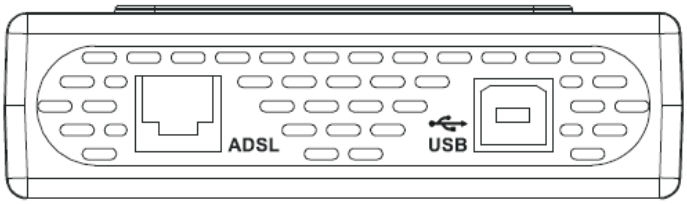
Software drivers for D-Link ADSL USB Modems can be fully upgraded by simply loading newer versions onto your PC. This will allow you to update the modem and use new features and enhancements as they are developed and standardized. Online information regarding the latest downloadable software and improvements can be found at http://tsd.dlink.com.tw.

Product Features

The D-Link DSL-200 Modem provides the following features:

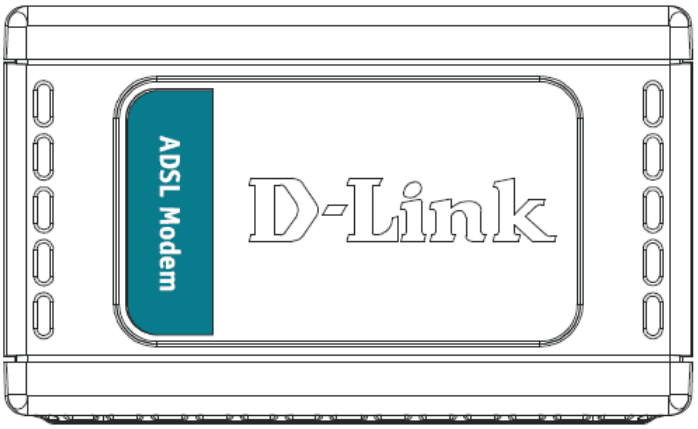
- G.hs compliant (Auto-handshake)
- G.dmt full rate compliant
- G.lite compliant
- RFC 1483 (Bridged Ethernet) compliant
- RFC 2364 PPP over ATM compliant
- RFC 2516 PPP over Ethernet compliant
- Compatible with all T1.413 issue 2 (full rate DMT over analog POTS), and CO DSLAM equipment
- Compliant with USB Specification Revision 1.1
- USB interface to PC host
- Plug and Play installation
- Easy to upgrade software
- GUI based configuration and diagnostic tool
- Supports up to sixteen simultaneous ATM virtual connections

Rear Panel



Connect both the ADSL cable and the USB cable at the rear of the Modem.

Front Panel



LED Indicators

There are two LED indicators on the Modem:

- **Power** - Indicates the Modem is powered on when lit.
- **ADSL Link** – Indicates a valid ADSL link has been established when lit.

2

MODEM INSTALLATION

Before you connect the USB cable, you must install the driver. See the next chapter for driver installation instructions. The only cable you should connect initially is the ADSL cable.

Place the Modem in a location so that you are able to view the LEDs. It should be placed in an area that is clean, dry and ventilated. Make certain it is not placed near a heat source.

Connect the ADSL

You can begin installing the Modem by performing the following steps:

1. Insert the Installation CD into the CD-ROM drive.
2. Insert one end of the ADSL cable (26 AWG twisted-pair telephone cable) into the telephone wall jack (RJ-11 port).
3. Insert the other end of the ADSL cable into the ADSL port (RJ-11 port) on the Modem.
4. Follow the software installation instructions in Chapter 3.

DO NOT CONNECT THE USB CABLE!
You must install the software driver before you connect the device to your computer via the USB cable. You will be prompted to connect the device during the installation. Connecting the USB cable at this point will initiate the Found New Hardware process.

3

SOFTWARE INSTALLATION

The DSL-200 can be used with the following operating systems:

- Microsoft Windows 98 Second Edition
- Microsoft Windows 2000
- Microsoft Windows Millennium Edition
- Microsoft Windows XP
- Microsoft Windows XP x64

The procedures for each system are slightly different so be sure to follow the instructions provided for your PC's operating system.
The Microsoft Plug and Play feature will automatically detect the modem after it has been installed. A new window will appear for each step of the installation.
Once you have the driver installed and the Modem is connected, you should verify that the ADSL service is working.
If you wish uninstall the Modem see Chapter 7 for instructions.

What Driver to Install

You will need to select one driver (see Step 5) to operate the Modem. Which driver you use will depend on the particular protocol used to provide your ADSL service. Ask your DSL service provider to assist you in selecting either the WAN or LAN driver to operate the Modem. Only one driver should be installed.
For PPP connections, install the WAN driver. RFC 2364, PPP over ATM, and RFC 2516, PPP over Ethernet installations must use the WAN driver.
If the protocol used for your ADSL service is defined by RFC 1483, Multiprotocol Encapsulation over ATM Adaptation Layer 5 (Bridged Ethernet), then you will need to install the LAN driver.

Install the Software Driver

Install the software driver on a computer using the Windows 98 Second Edition, Windows Millennium Edition (Windows Me), Windows 2000, Windows XP or Windows XP x64 operating system. There are two different drivers, the LAN (Local Area Network) or WAN (Wide Area Network) driver. The instructions in this chapter can be used for either the LAN or WAN driver, the installation procedure is identical for both. If you are not sure which driver you should install, see the previous section What Driver to Install for more information.

1 Install Modem Drivers

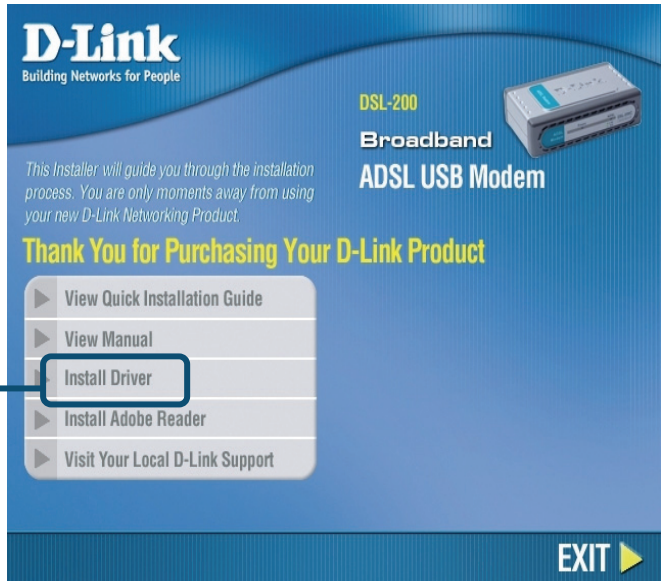
Before starting the software setup process, close all windows and quit any application programs you are running.

1.1 Windows 98SE/ME

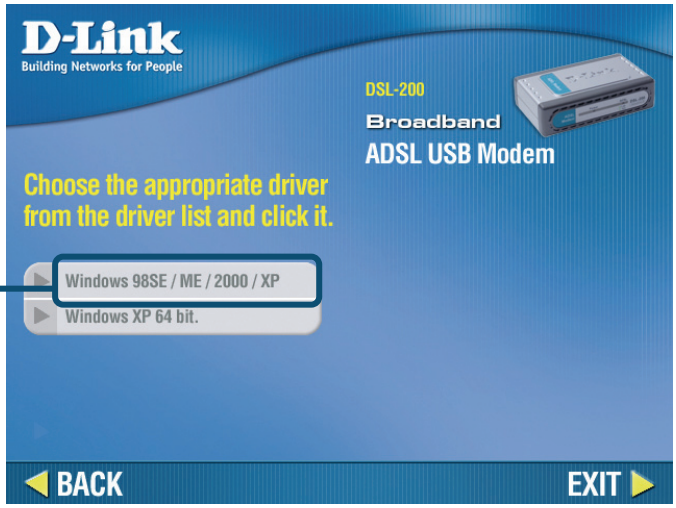
1) Insert the DSL-200 Installation CD into the CD-ROM drive. The system should detect the installation program and run the program automatically. If installation does not begin automatically after a few seconds, find the autorun.exe icon located on the CD and double-click it. To view the contents of the CD, open My Computer from the desktop, and right-click on your CD-ROM. Select the "Explore" option and this will reveal the folders and files on the CD.

Insert the driver CD supplied into the CD-ROM drive.

Click **Install Drivers**.

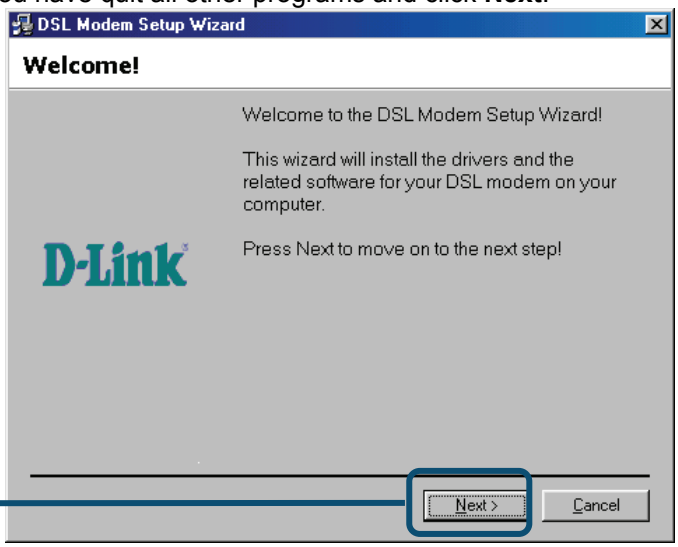


2) Choose the appropriate driver from the driver list and click it. A notification message will appear indicating that the setup process has begun.



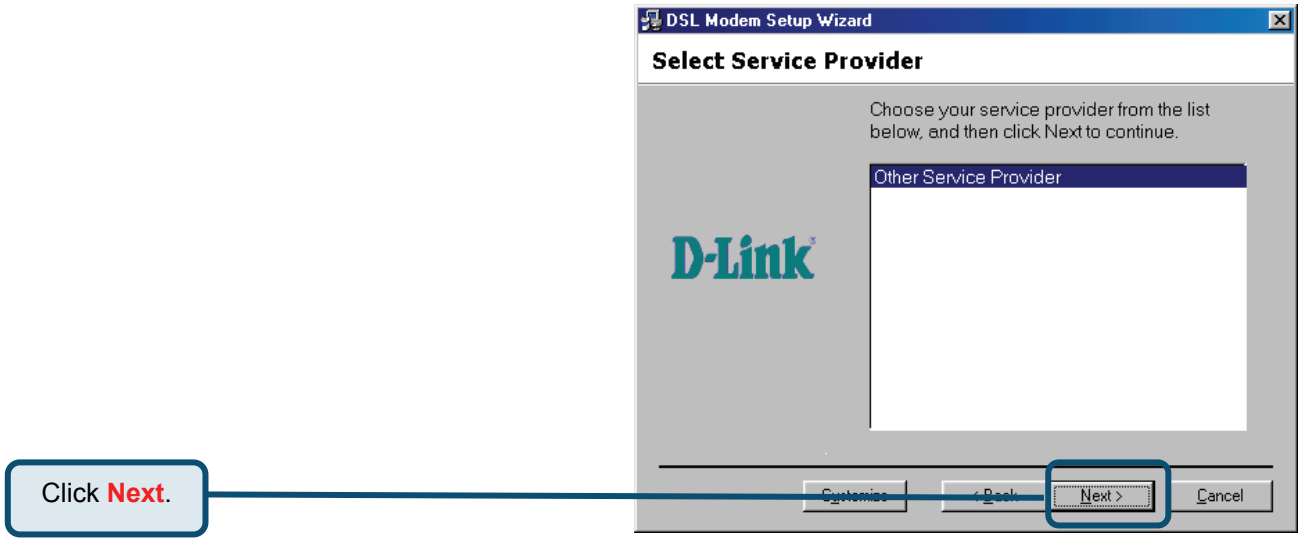
Choose this driver and click it

3) The Welcome window will appear. Make sure you have quit all other programs and click **Next**.

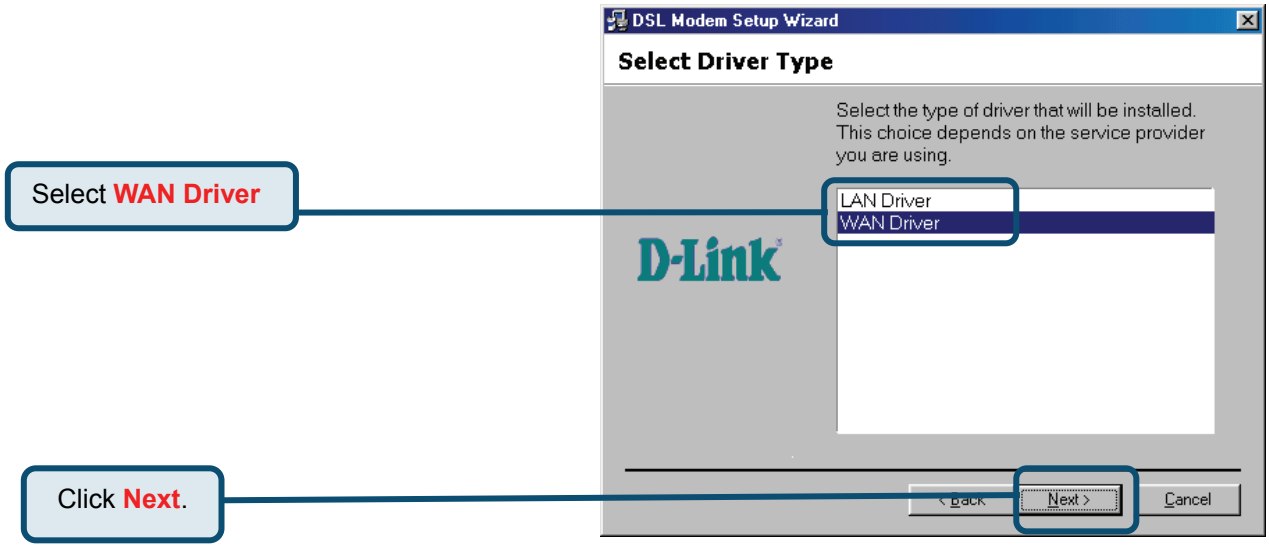


Click **Next**.

4) In the Select Service Provider window, select **Other Service Provider** and click **Next**.



5) In the Select Driver Type window, choose the driver that best suits your ADSL connection, and then click **Next**.



6) In the **Communication Settings** window you must provide the PVC settings, **Encapsulation** method and **Modulation** method for configuring the Modem. Type in the VPI and VCI values in their respective fields.

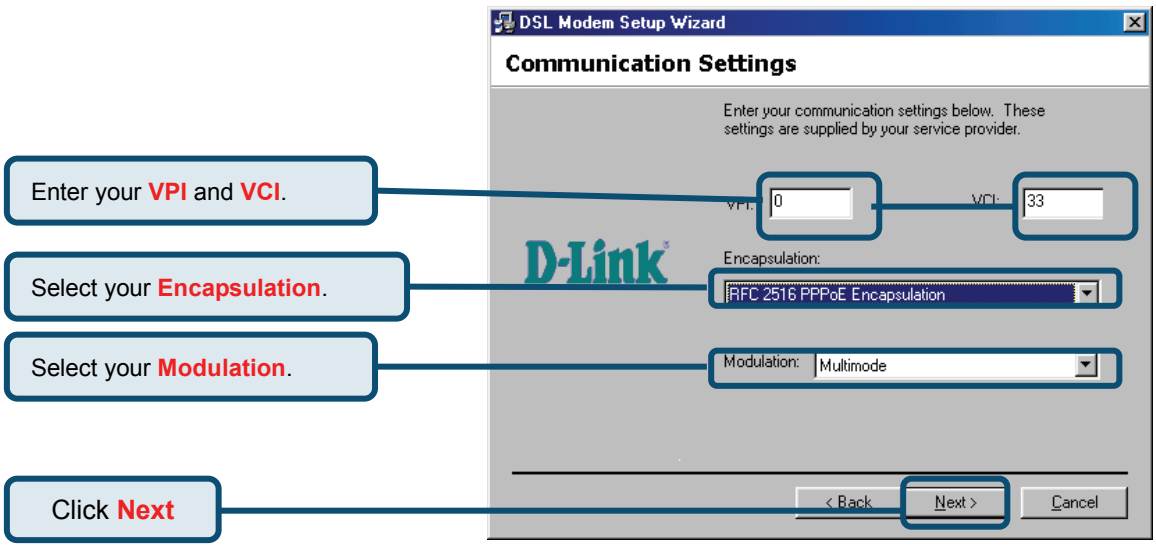
7) In the same window, select the appropriate **Encapsulation** method from the drop-down menu. You will select the encapsulation setting that is appropriate for the driver you are installing.

   For RFC 2516 PPPoE, select RFC 2516 PPPoE Encapsulation. If you using RFC 2364 PPPoATM and your service provider have not specified an encapsulation setting, use RFC 2364 PPPoATM NULL Encapsulation.

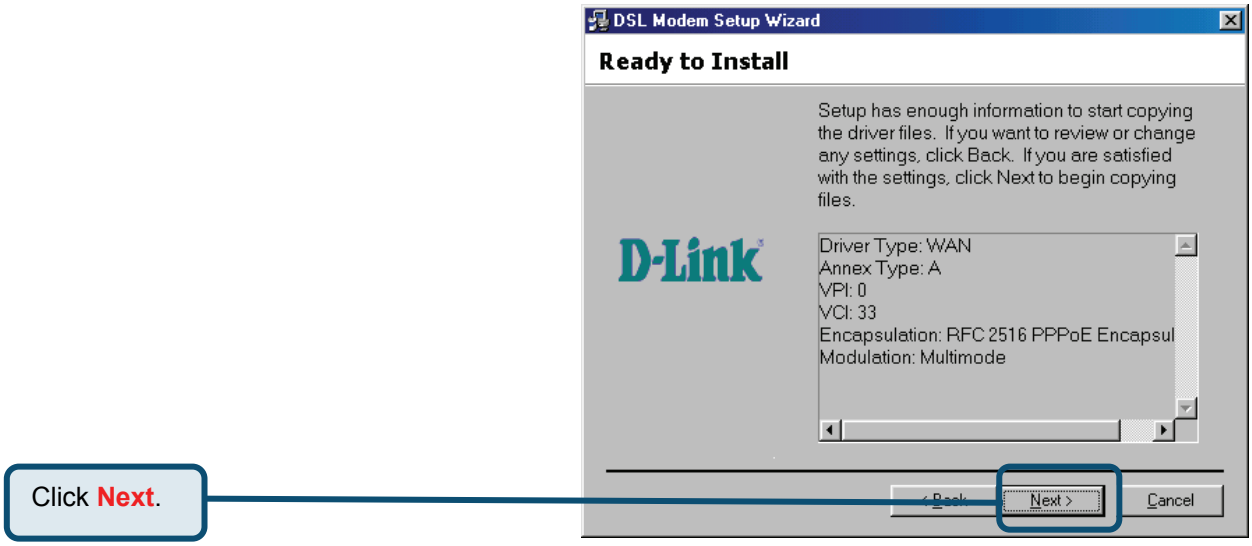
   If you are using the LAN driver, select the appropriate RFC 1483 encapsulation setting. If your service provider has not specified an encapsulation setting, use RFC 1483 IPoATM Bridged LLC Encapsulation.

8) Again in the same window, select the proper Modulation settings using the drop-down menu. Your service provider will give you the appropriate Modulation settings. Choose T1.413, Multimode, G.Lite or G.DMT. If your service provider has not specified a modulation setting, use Multimode. Click **Next** to continue.

At this point you must choose the Encapsulation method and Modulation technique used for your ADSL connection. Be sure to have the correct information available.

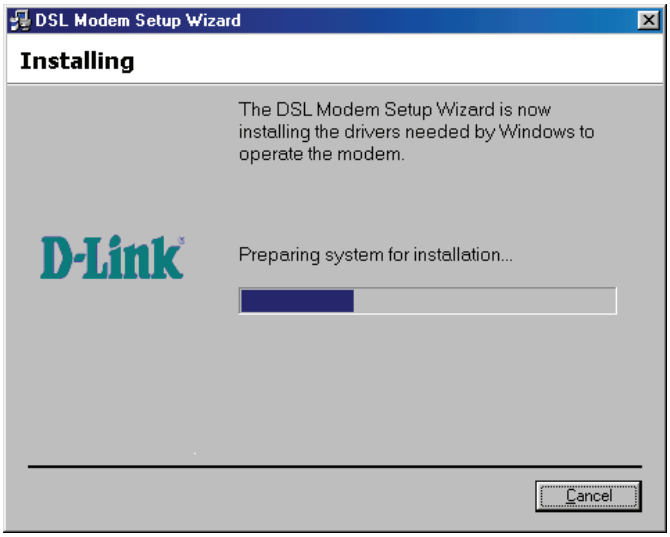


9) The Ready to Install window appears. Click **Next** to copy the needed driver files.



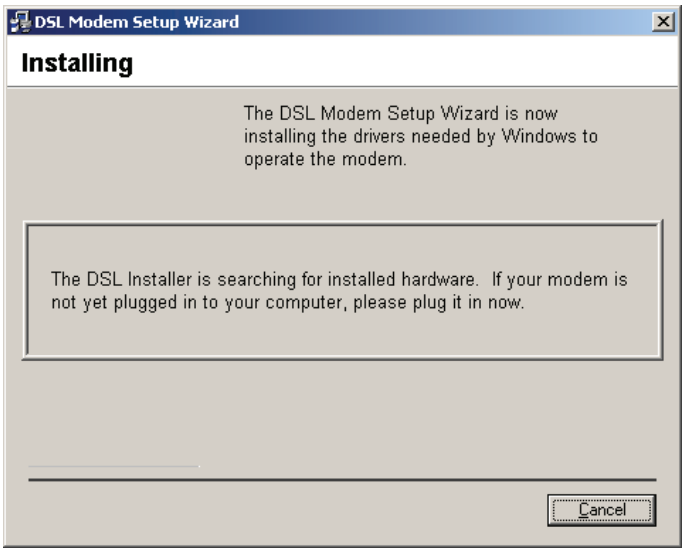
10) After clicking **Next**, the **Installing** screen below will appear notifying you that your computer is downloading files and preparing for installation.

Wait for installation.

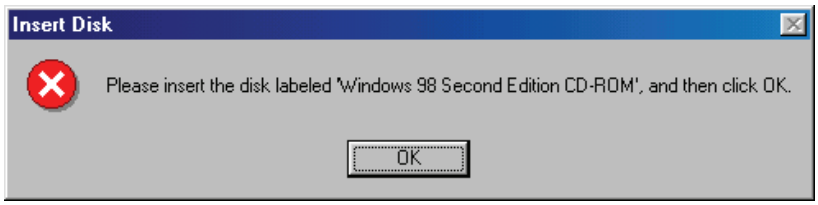


11) After the files are downloaded, another **Installing** screen will prompt you to plug your modem into your computer. Plug the rectangular end of the USB cable into the USB port of your PC, and then plug the square end of the USB cable into the USB port of the ADSL Modem. The USB Modem will be detected and messages will be displayed as the modem software is installed.

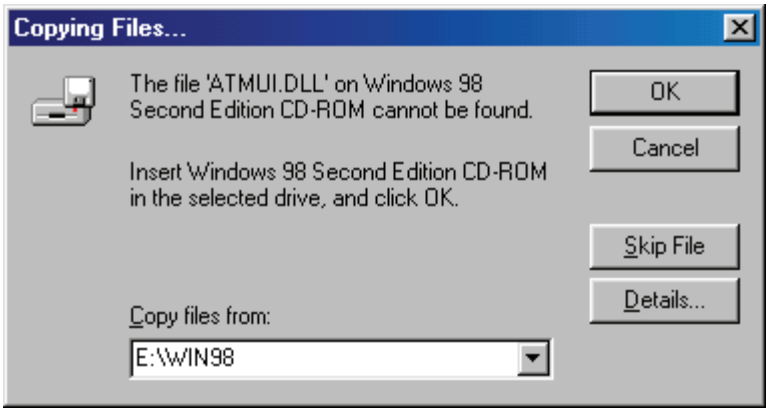
Plug in your Modem now.



12) If you are installing Win98SE, please insert the Win 98SE disk into CD-ROM. If you are installing Win ME, please go to next step.

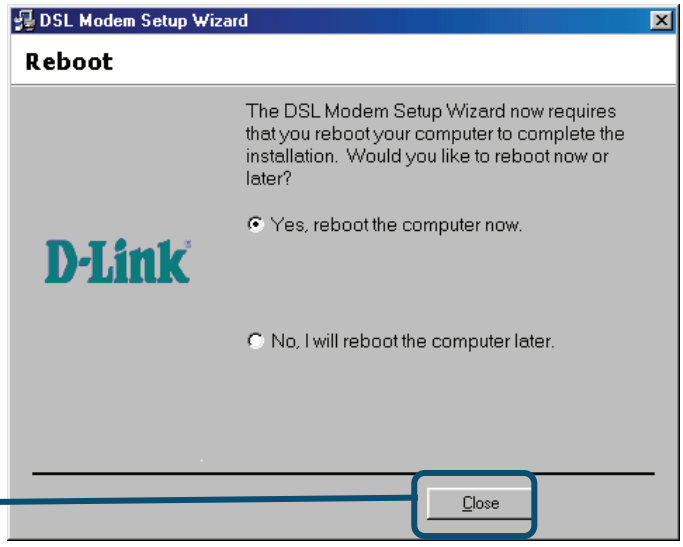


Please insert Win 98 CD-ROM now.



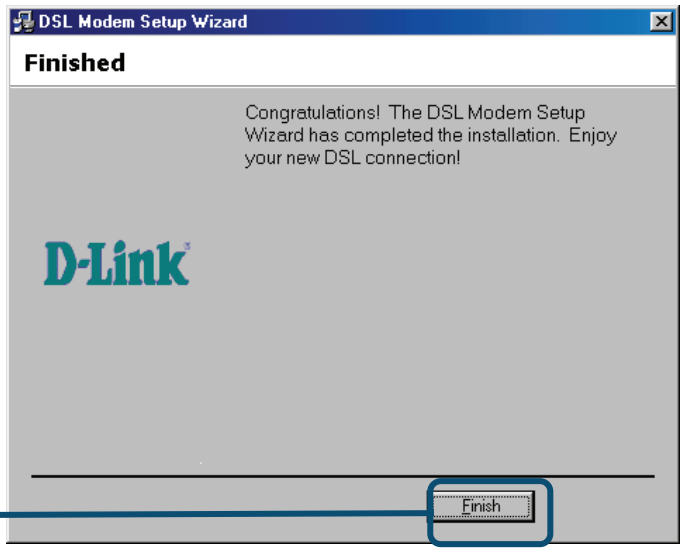
13) The **Found New Hardware** screen will appear notifying you that your computer has detected the modem and is currently installing it.

14) At the end of this process, the Reboot screen will appear prompting you to restart your computer. Choose **Yes, reboot the computer now** because it is necessary to reboot your computer to continue the installation, and then click **Close**.



Click **Close** to reboot the computer.

15) After restarting your computer, the Finished screen below should appear notifying that you have successfully installed your DSL-200 Modem. Click **Finish** to complete the installation process.



After reboot, click **Finish** to complete the installation.

Upon restarting your computer, a new icon (two arrows) will appear in the System Tray. If you are using PPP (WAN driver only) the D-Link Dial-up PPP Connection icon

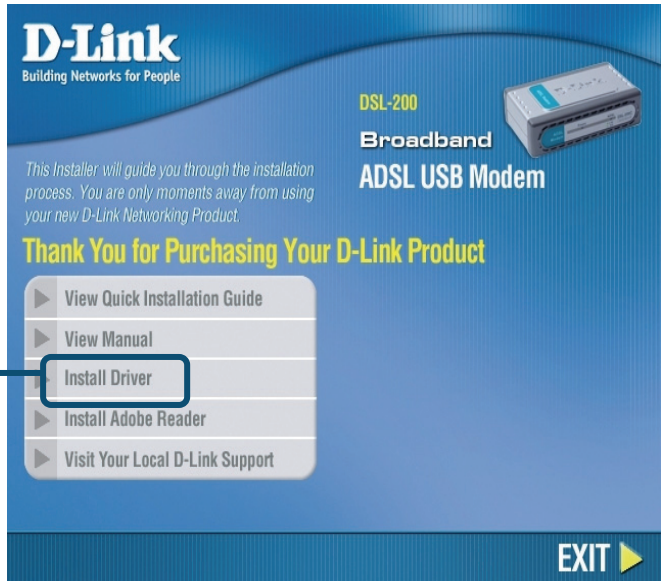
will appear on your desktop after restarting.

1.2 Windows 2000/XP

1) Insert the DSL-200 Installation CD into the CD-ROM drive. The system should detect the installation program and run the program automatically. If installation does not begin automatically after a few seconds, find the autorun.exe icon located on the CD and double-click it. To view the contents of the CD, open My Computer from the desktop, and right-click on your CD-ROM. Select the "Explore" option and this will reveal the folders and files on the CD.

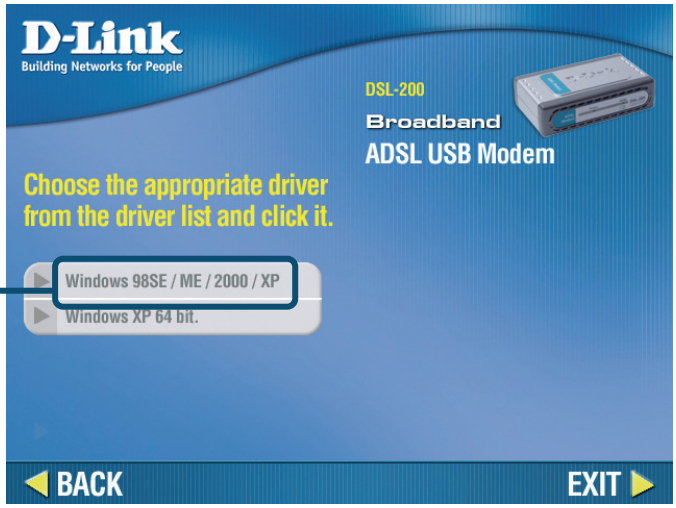
Insert the driver CD supplied into the CD-ROM drive.

Click **Install Drivers**.

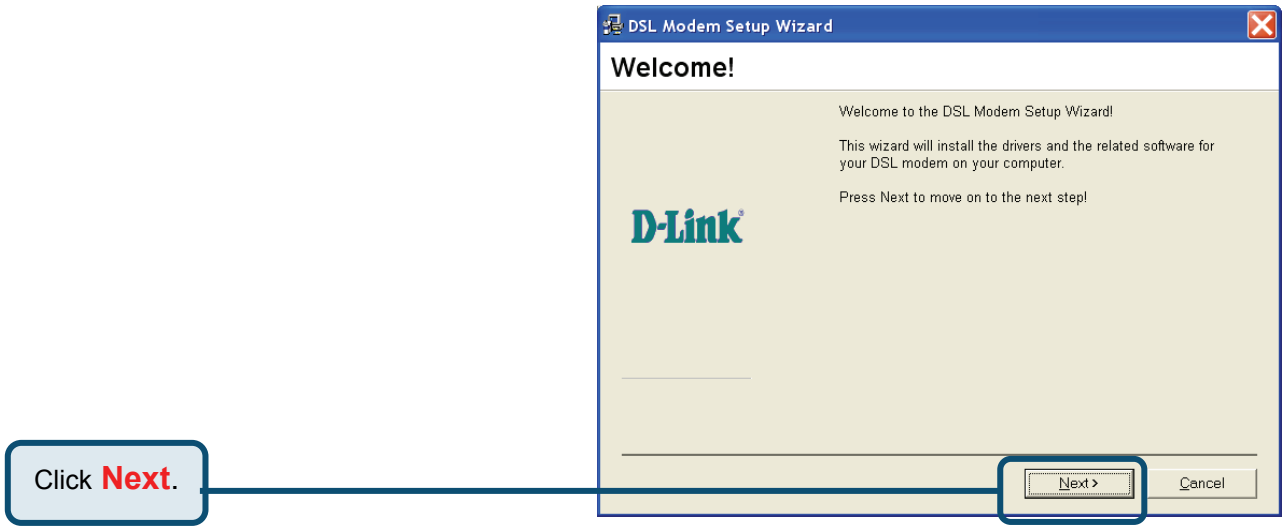


2) Choose the appropriate driver from the driver list and click it. A notification message will appear indicating that the setup process has begun.

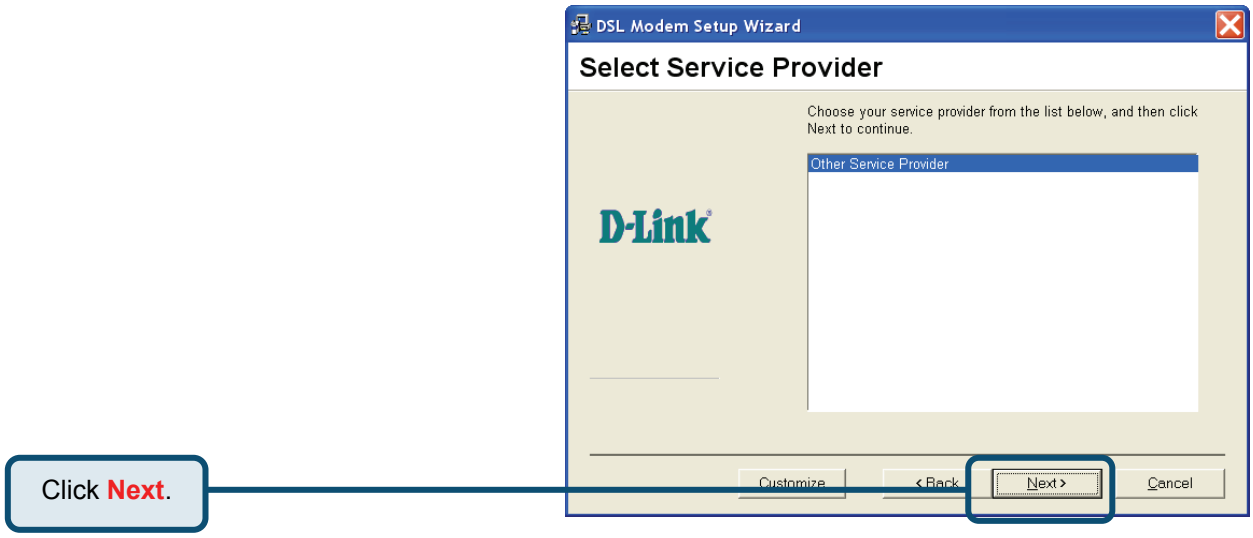
Choose this driver and click it



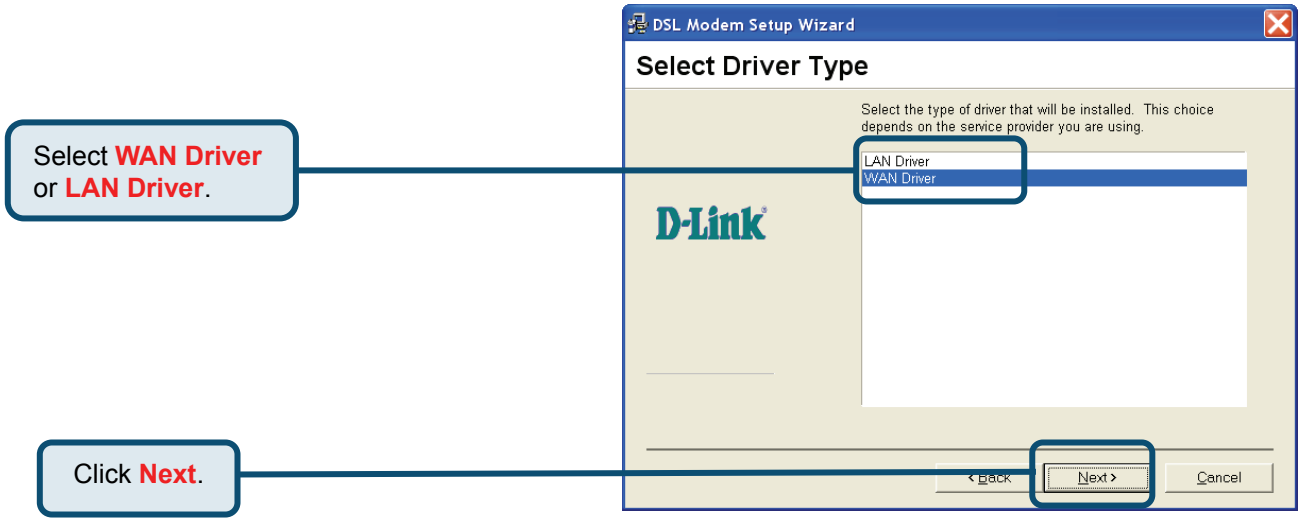
3) The Welcome window will appear. Make sure you have quit all other programs and click **Next**.



4) In the Select Service Provider window, select **Other Service Provider** and click **Next**.



5) In the Select Driver Type window, choose the driver that best suits your ADSL connection, and then click **Next**.



6) In the **Communication Settings** window you must provide the PVC settings, **Encapsulation** method

and **Modulation** method for configuring the Modem. Type in the VPI and VCI values in their respective fields.

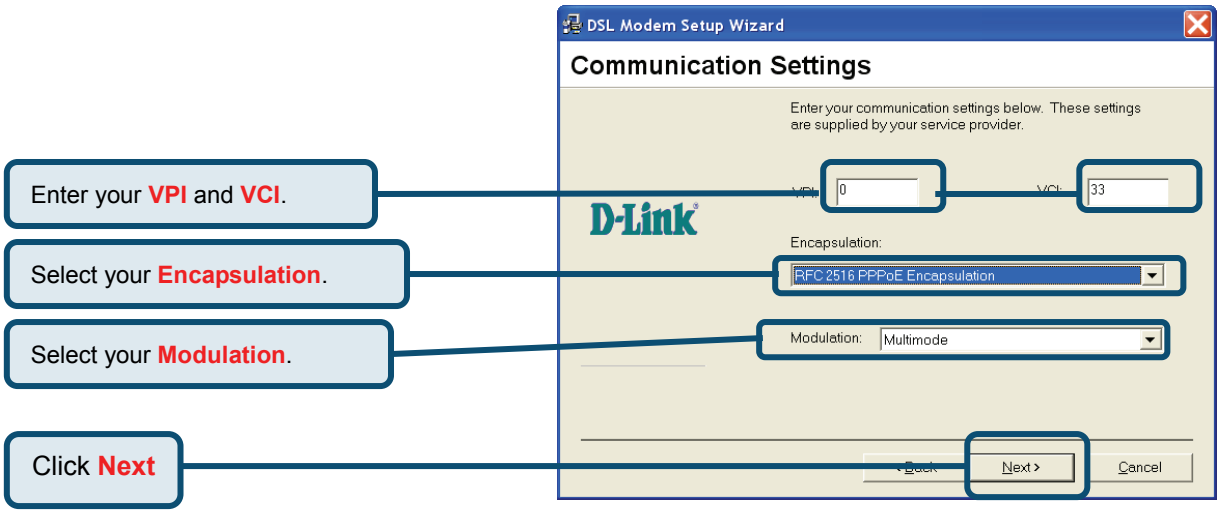
7) In the same window, select the appropriate **Encapsulation** method from the drop-down menu. You will select the encapsulation setting that is appropriate for the driver you are installing.

For RFC 2516 PPPoE, select RFC 2516 PPPoE Encapsulation. If you using RFC 2364 PPPoATM and your service provider have not specified an encapsulation setting, use RFC 2364 PPPoATM NULL Encapsulation.

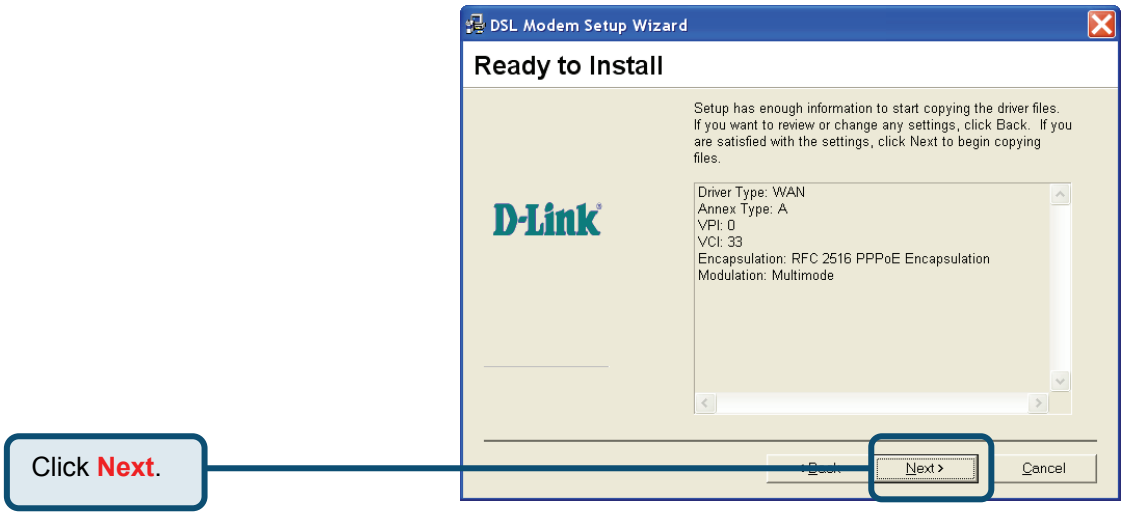
If you are using the LAN driver, select the appropriate RFC 1483 encapsulation setting. If your service provider has not specified an encapsulation setting, use RFC 1483 IPoATM Bridged LLC Encapsulation.

8) Again in the same window, select the proper Modulation settings using the drop-down menu. Your service provider will give you the appropriate Modulation settings. Choose T1.413, Multimode, G.Lite or G.DMT. If your service provider has not specified a modulation setting, use Multimode. Click **Next** to continue.

At this point you must choose the Encapsulation method and Modulation technique used for your ADSL connection. Be sure to have the correct information available.

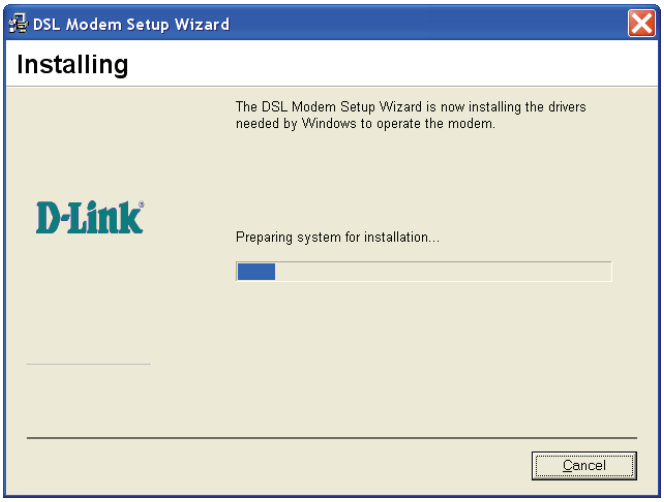


9) The Ready To Install window appears. Click **Next** to copy the needed driver files.



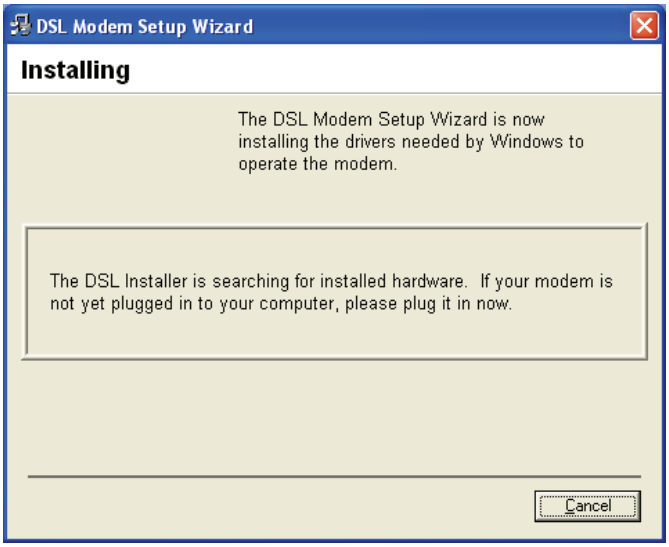
10) After clicking **Next**, the **Installing** screen below will appear notifying you that your computer is downloading files and preparing for installation.

Wait for installation.



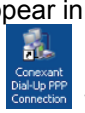
11) After the files are downloaded, another **Installing** screen will prompt you to plug your modem into your computer. Plug the rectangular end of the USB cable into the USB port of your PC, and then plug the square end of the USB cable into the USB port of the ADSL Modem. The USB Modem will be detected and messages will be displayed as the modem software is installed.

Plug in your Modem now.



12) The **Found New Hardware** screen will appear notifying you that your computer has detected the modem and is currently installing it.

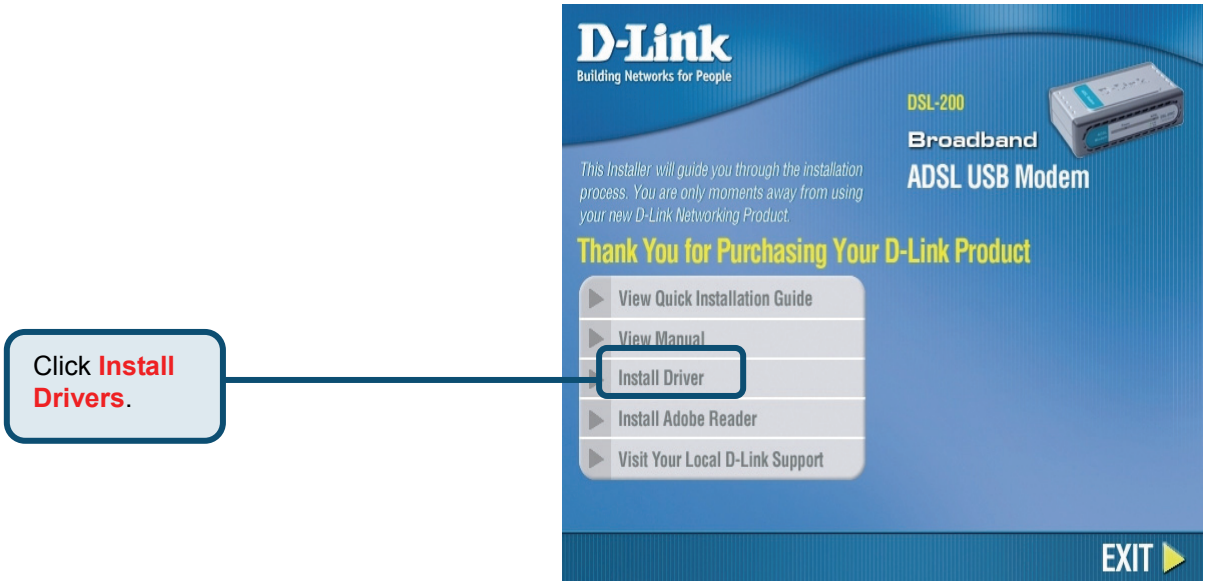
13) The Finished screen below will appear notifying that you have successfully installed your DSL-200 Modem. Click **Finish** to complete the installation process.

After finishing the installation procedure, a new icon (two arrows) will appear in the System Tray. If you are using PPP (WAN driver only) the D-Link Dial-up PPP Connection icon 

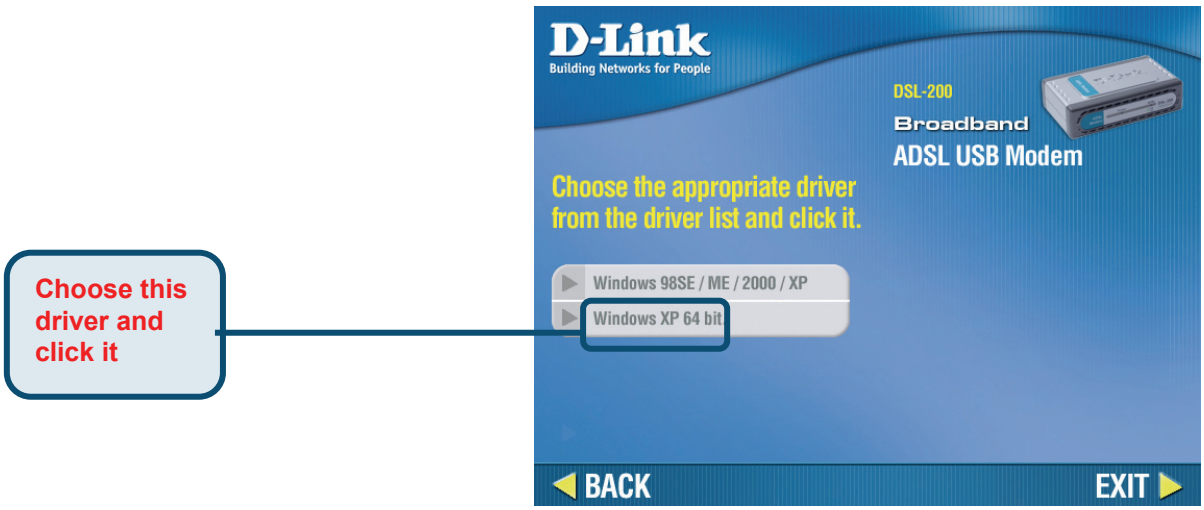
will appear on your desktop after installing.

1.3 Windows XP 64bit

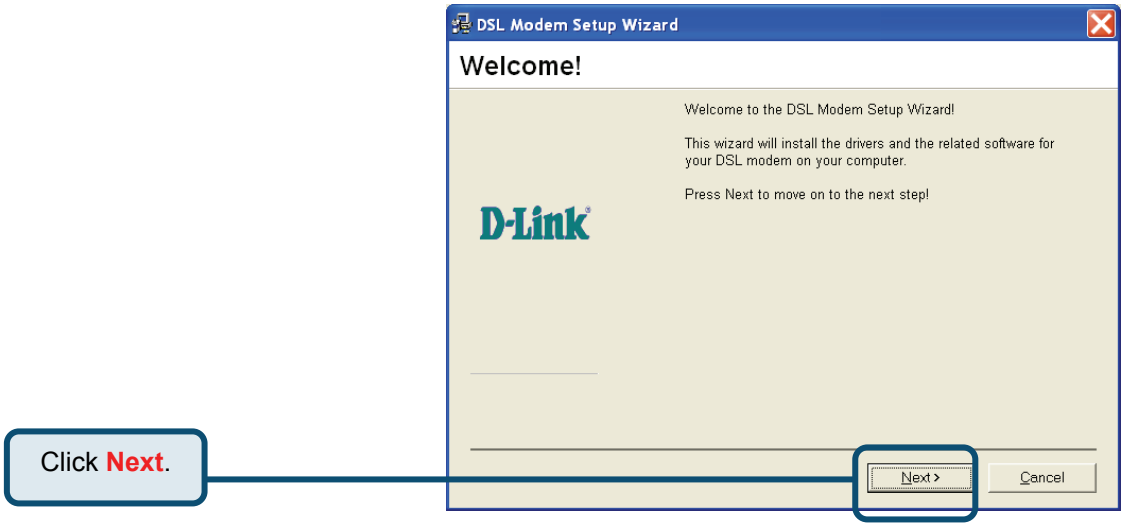
1) Insert the DSL-200 Installation CD into the CD-ROM drive. The system should detect the installation program and run the program automatically. If installation does not begin automatically after a few seconds, find the autorun.exe icon located on the CD and double-click it. To view the contents of the CD, open My Computer from the desktop, and right-click on your CD-ROM. Select the "Explore" option and this will reveal the folders and files on the CD.



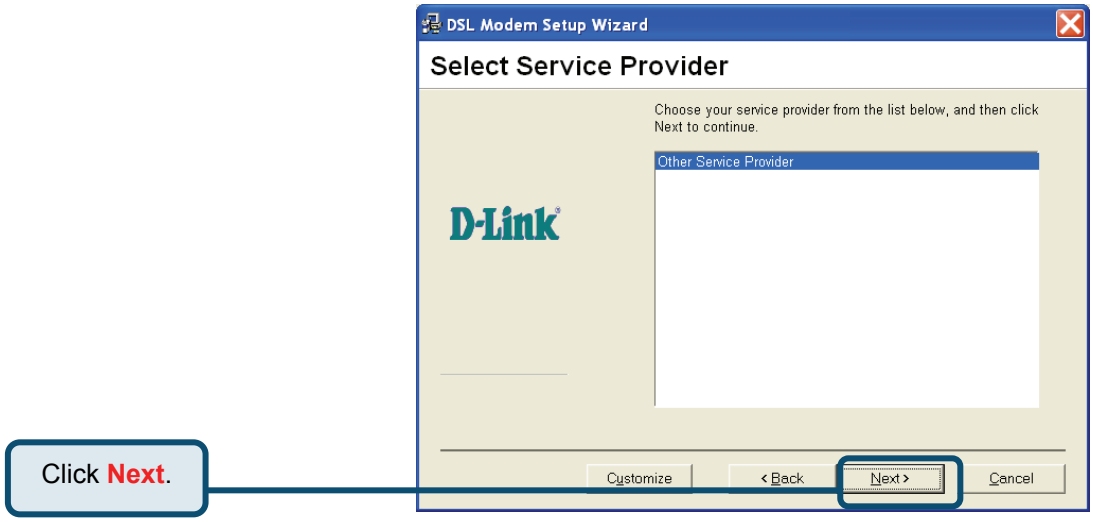
2) Choose the appropriate driver from the driver list and click it. A notification message will appear indicating that the setup process has begun.



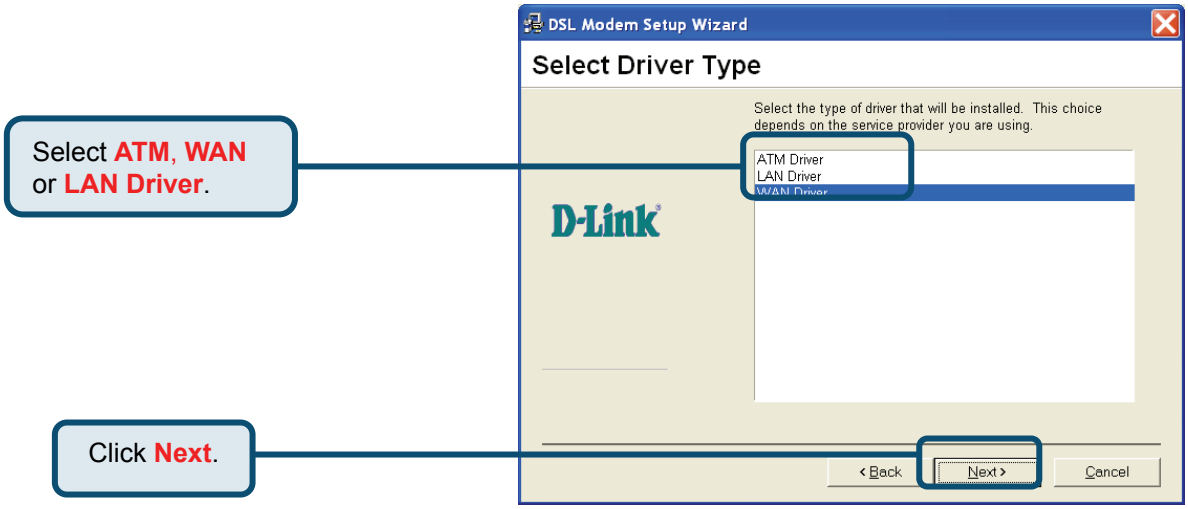
3) The Welcome window will appear. Make sure you have quit all other programs and click **Next**.



4) In the Select Service Provider window, select **Other Service Provider** and click **Next**.



5) In the Select Driver Type window, choose the driver that best suits your ADSL connection, and then click **Next**.



6) In the **Communication Settings** window you must provide the PVC settings, **Encapsulation** method and **Modulation** method for configuring the Modem. Type in the VPI and VCI values in their respective fields.

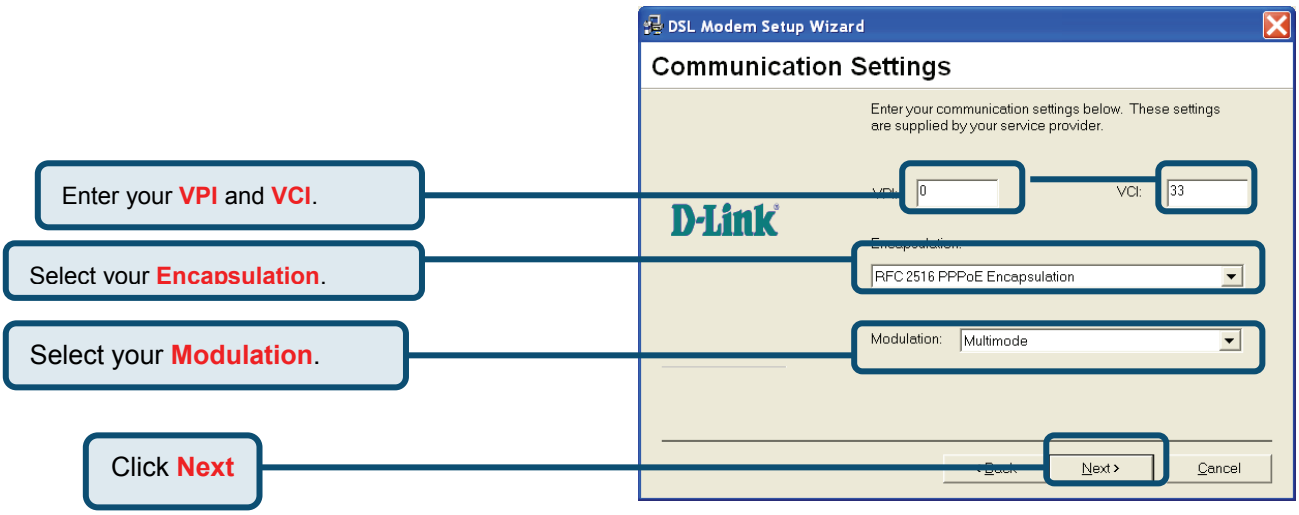
7) In the same window, select the appropriate **Encapsulation** method from the drop-down menu. You will select the encapsulation setting that is appropriate for the driver you are installing.

   For RFC 2516 PPPoE, select RFC 2516 PPPoE Encapsulation. If you using RFC 2364 PPPoATM and your service provider have not specified an encapsulation setting, use RFC 2364 PPPoATM NULL Encapsulation.

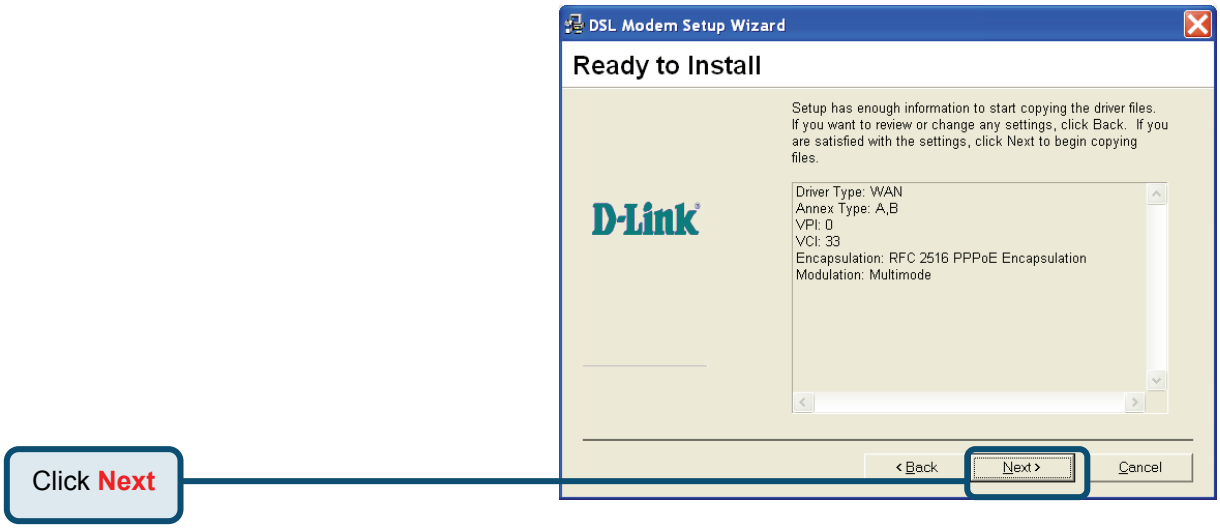
   If you are using the LAN driver, select the appropriate RFC 1483 encapsulation setting. If your service provider has not specified an encapsulation setting, use RFC 1483 IPoATM Bridged LLC Encapsulation.

8) Again in the same window, select the proper Modulation settings using the drop-down menu. Your service provider will give you the appropriate Modulation settings. Choose T1.413, Multimode, G.Lite or G.DMT. If your service provider has not specified a modulation setting, use Multimode. Click **Next** to continue.

At this point you must choose the Encapsulation method and Modulation technique used for your ADSL connection. Be sure to have the correct information available.

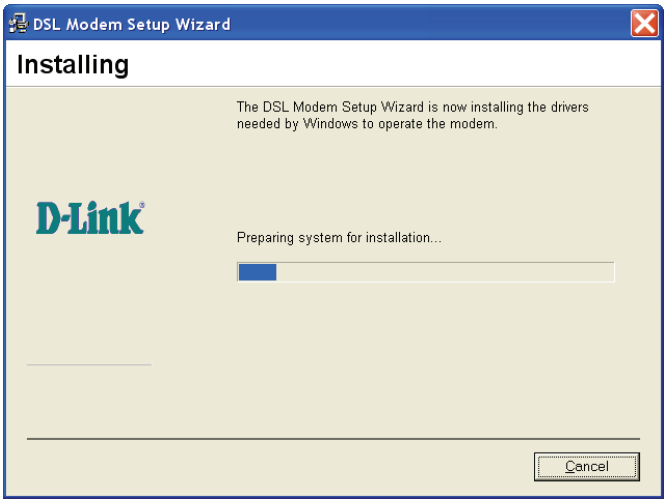


9) The Ready To Install window appears. Click **Next** to copy the needed driver files



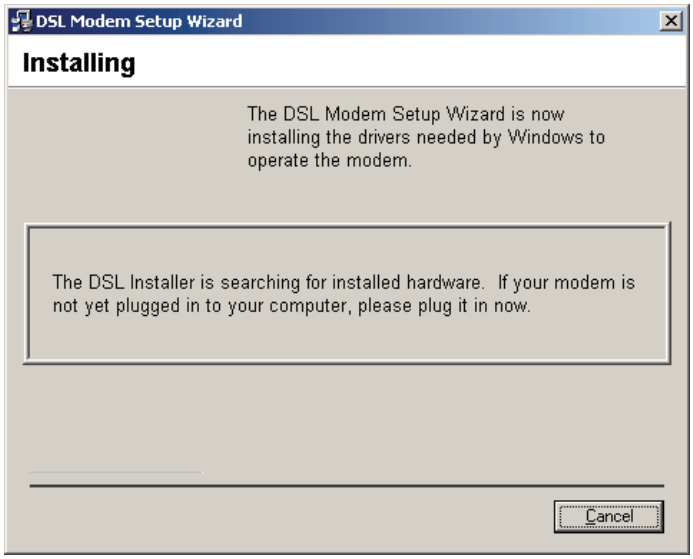
10) After clicking **Next**, the **Installing** screen below will appear notifying you that your computer is downloading files and preparing for installation.

Wait for installation.



11) After the files are downloaded, another **Installing** screen will prompt you to plug your modem into your computer. Plug the rectangular end of the USB cable into the USB port of your PC, and then plug the square end of the USB cable into the USB port of the ADSL Modem. The USB Modem will be detected and messages will be displayed as the modem software is installed.

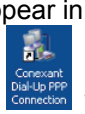
Plug in your Modem now.



12) The **Found New Hardware** screen will appear notifying you that your computer has detected the modem and is currently installing it.

13) The Finished screen below will appear notifying that you have successfully installed your DSL-200 Modem. Click **Finish** to complete the installation process.

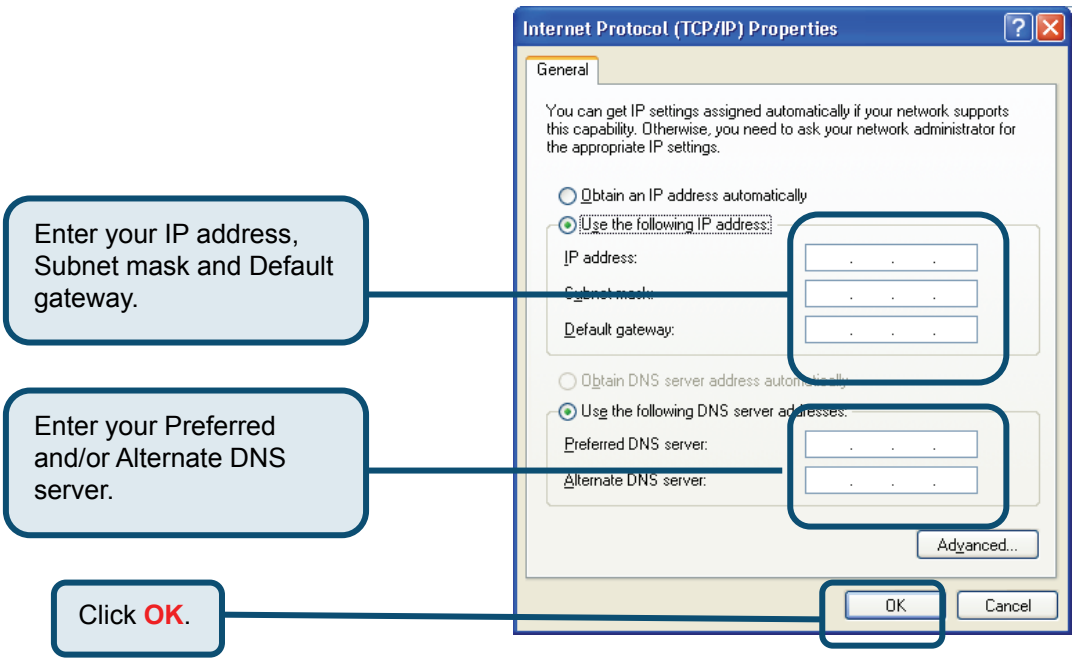
Click **Finish** to complete the installation.

After finishing the installation procedure, a new icon (two arrows) will appear in the System Tray. If you are using PPP (WAN driver only) the D-Link Dial-up PPP Connection icon  will appear on your desktop after installing.

2 Making a Connection

Fixed IP

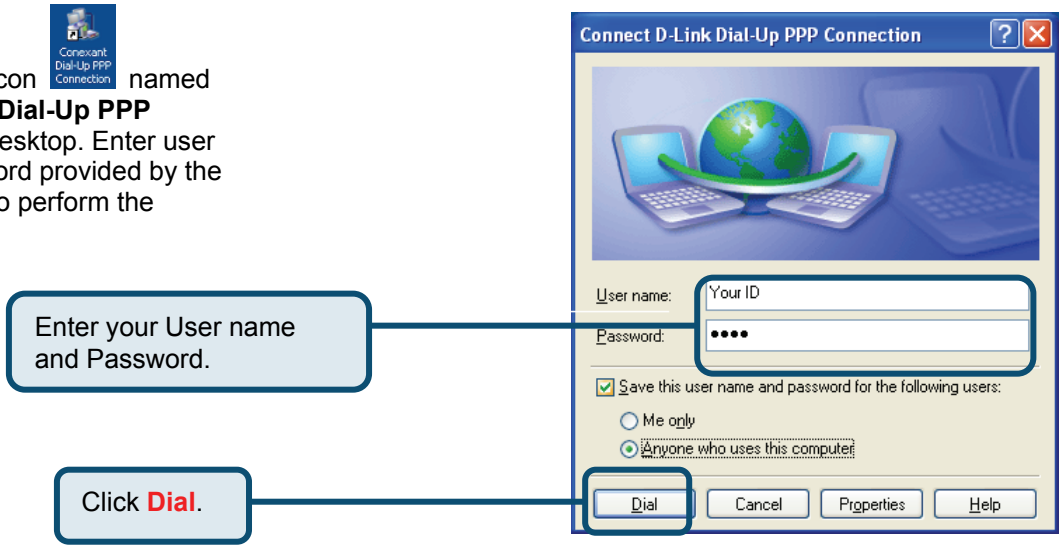
Your need to specify the fixed IP address and other required settings in this window to perform your connection.



Dynamic IP

Double click the icon

named **Connect D-Link Dial-Up PPP Connection** on desktop. Enter user name and password provided by the service provider to perform the connection.

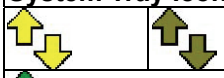


3 Verify the ADSL Connection

Before you continue to the final step, make sure that the ADSL connection has been established. This can be done easily using the Modem's ADSL connection monitoring feature described below.

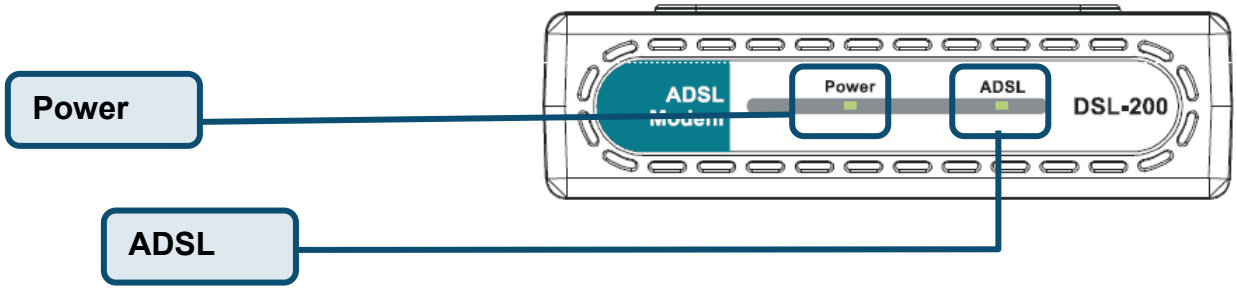
Desktop Monitoring

A new icon will appear in the System Tray of your desktop. These colored arrows will help you monitor the status of your ADSL connection. The table below summarizes how to interpret the icon indicator.

System Tray Icon	ADSL Status
	**Training** Both arrows will alternate yellow and brown in color while during the negotiation of the ADSL connection.
	Connection Established Both arrows appear dark green when the connection has been established (and no data is being passed in either direction).
	Transmitting Data The Up arrow appears light green when data is being transmitted.
	Receiving Data The Down arrow appears light green when data is being transmitted.
	Error Two red arrows indicate an error has occurred. The connection may have been lost.

LED Indicators

The other way to verify that the ADSL connection has been established is to view the ADSL Link indicator on the Modem. This LED will light up when the ADSL connection has been established. The other LED indicator on the front of the device, the Power LED will light up when the USB cable is inserted.



4

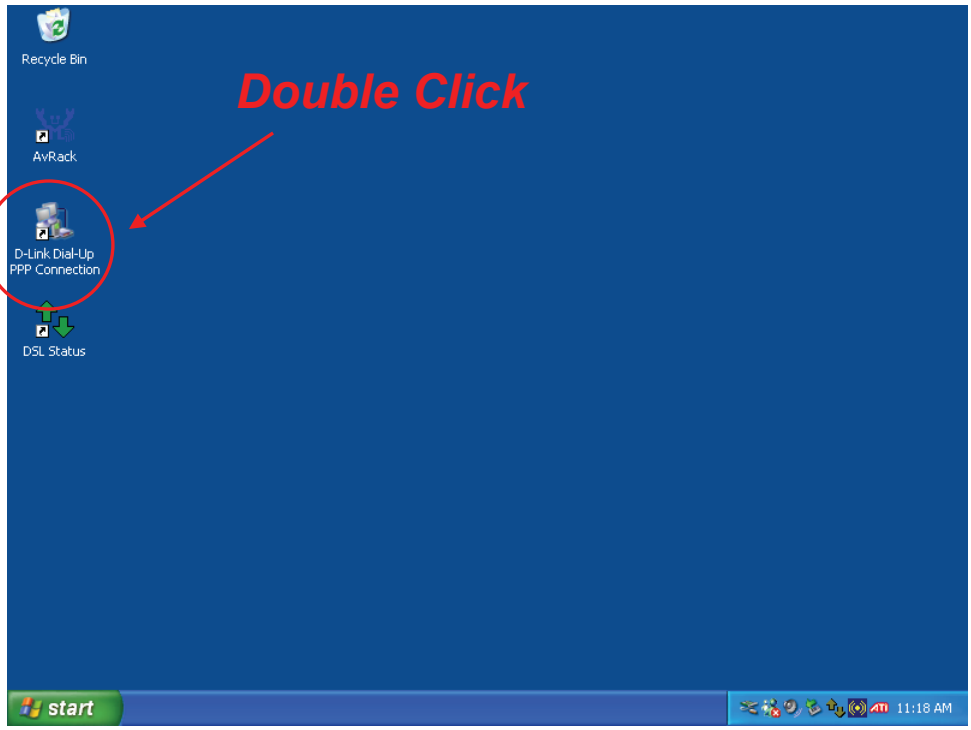
CONNECT TO THE INTERNET

Now that the driver has been installed, you are ready to connect to the Internet. You establish an Internet connection indirectly, using DSL link to your network service provider. Follow the instructions for the driver you have installed and the operating system you use on your computer. If you have installed the WAN driver, you are using PPP to connect to your network service provider. You will follow a procedure that will be familiar if you have ever installed a dial-up modem.
If you have installed the LAN driver, please skip ahead to the section titled Connect to Internet – LAN Driver Users.

Dial-Up Connection (WAN Driver Only)

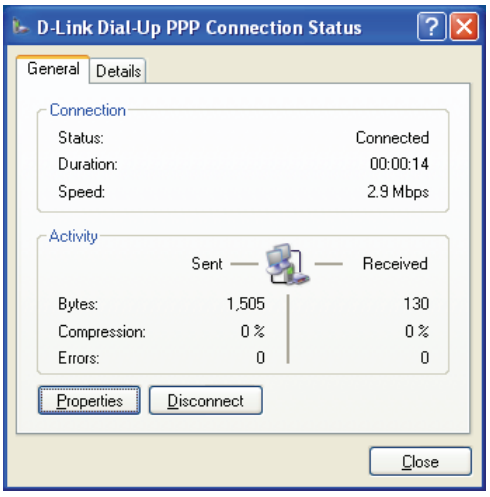
The Procedures for the different operating systems are the same though the appearance of the windows differs. The screen captures used for this manual are from a Windows XP installation.

1. From the Windows desktop double-click on the D-Link Dial-Up PPP Connection icon.



2. In the Connect To window type in the correct User name and Password given to you by your ADSL or network service provider. Checks the Save password box if do not want to retype the password if you need to reconnect. The Phone number field will display the VPI/VCI values you entered earlier. DO NOT change the numbers in the Phone number field if displayed. Click **Dial**. It may take a few seconds for the connection to be established.

3. Once the negotiation of the ADSL connection is complete, you may now launch your web browser to access the Internet.



Connect to Internet - LAN Driver Users

If your ADSL connection uses either the RFC 1483 or the RFC 1577 protocol, you must set your own TCP/IP configuration. The following information will be provided to you by your DSL service provider:

- ✓ IP Address
- ✓ Subnet Mask
- ✓ Gateway
- ✓ DNS Host Name
- ✓ DNS Domain
- ✓ DNS Server

Windows 98 / Windows Me (LAN Driver)

Follow these steps if you are using the RFC 1483 or RFC 1577 protocol on a computer running Windows 98 or Windows Me.

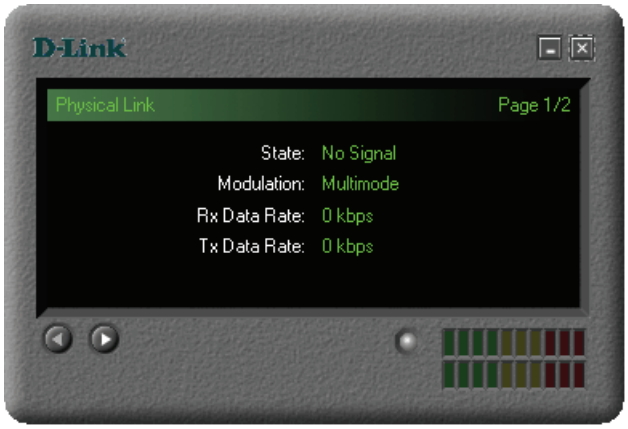
1. From the Start menu, select Settings, Control Panel, and then double-click on the Network icon.
2. The Network window appears. Select the Configuration tab, scroll down the installed network components list and click on TCP/IP D-Link DSL-200 USB ADSL Modem.
3. Click the Properties button.
4. The TCP/IP Properties window will appear. Select the IP Address tab and then select the Select an IP address option. Enter the IP Address and Subnet Mask settings given to you by your ISP or ADSL service provider.
5. Select the Gateway tab and enter the IP settings in the new gateway field. Click Add.
   Select the DNS Configuration tab.
   Select the Enable DNS option.
   Type in your host name in the Host: field.
   Type in your domain name in the Domain: field.
   Enter the DNS settings in the DNS Server Search Order field and click Add. If you have more than one DNS IP address, repeat this step. You can have up to 3 DNS servers listed here.
6. After all the TCP/IP information has been entered, click OK.
7. The Network window again appears, click OK.
   The System Settings Change window appears. You need to restart your computer for the changes to go into effect. Click Yes.

Windows 2000 / Windows XP / Windows XP 64-bit (LAN Driver)

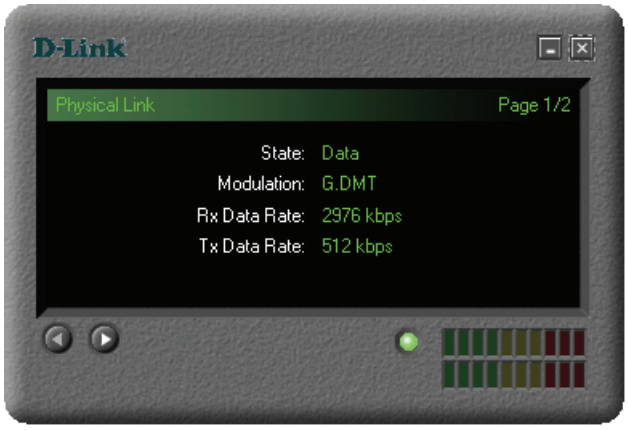
1. Double-click on the My Computer icon, then the Control Panel icon, and then the Network and Dial-up Connections icon.
2. The Network and Dial-up Connections window appears. Right click on the Local Area Connection for the D-Link DSL-200 USB ADSL Modem.
3. The Local Area Connection window appears. Click on Internet Protocol (TCP/IP), then click on Properties.
4. The Internet Protocol (TCP/IP) window appears. Under the General tab, select Use the following IP address. Enter the IP address, Subnet Mask, and Default Gateway given to you by your ISP or ADSL service provider. Click OK.
5. The General tab will again appear. Click OK.
6. The Network and Dial-up Connection window appears. Close this window to complete the connection.

5 MONITORING THE MODEM

Once you have installed the Modem you can monitor the status of the ADSL connection by clicking on the connection icon in your System Tray or click on the DSL-200 icon in the Control Panel folder. Clicking on either icon will bring up the following window:



The bright green light under the screen indicates a valid link. The screen indicates the current state of you modem, the modulation and the Rx and the Tx data rates. On startup, the modem will automatically "train", or load the settings in your modem. Shortly after the training process, the screen below will appear, now showing your state as (receiving) Data.



Under the screen to the left are two scroll buttons . Clicking on the right scroll button will bring up the screen pictured above, showing the Current Package, Driver, Control Panel and Firmware versions. Clicking on the left scroll button will return you to the initial screen.

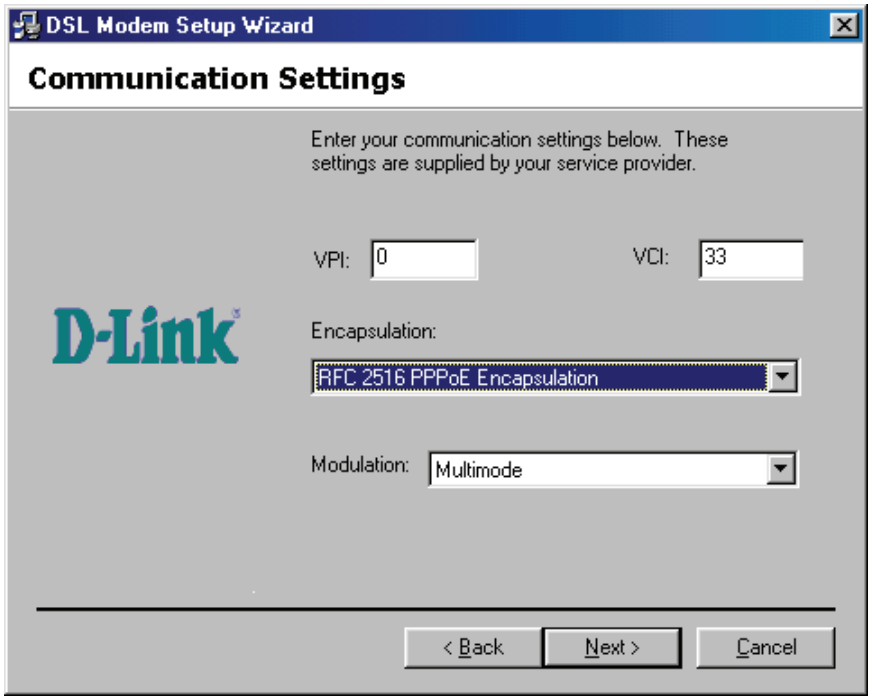
6

CHANGING MODEM CONFIGURATION

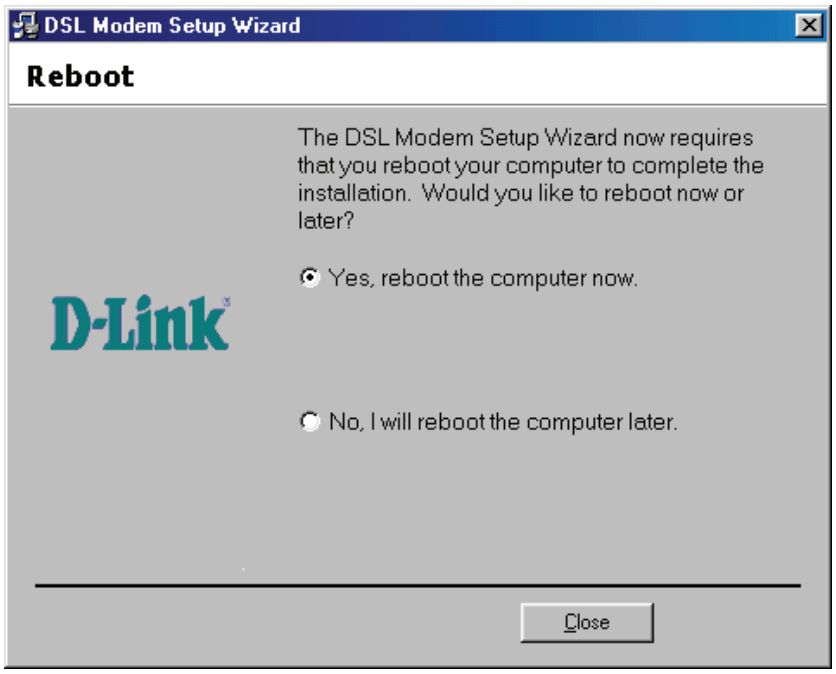
Once the Modem and software have been installed the communication settings may be easily updated by performing the following steps:

1. From your PC desktop click Start – ALL Programs – -Link DSL-200 ADSL Modem – Configure. A notification message will appear indicating that the setup process has begun.

2. The "Communication Settings" window will be displayed. Make the necessary changes to the VPI, VCI, Encapsulation type and/or Modulation type and click **Next**.



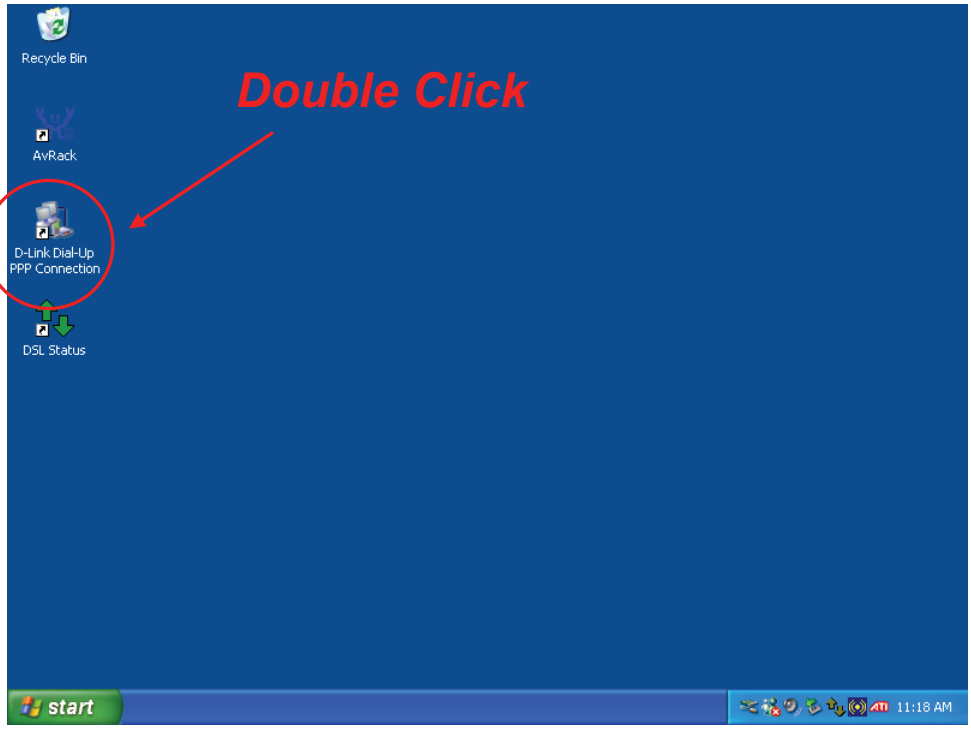
3. The new settings will be applied after restarting the computer. If you want to restart now click **Close**. If you do not want to restart now select the "No, I will restart my computer later." option and then click **Close**.



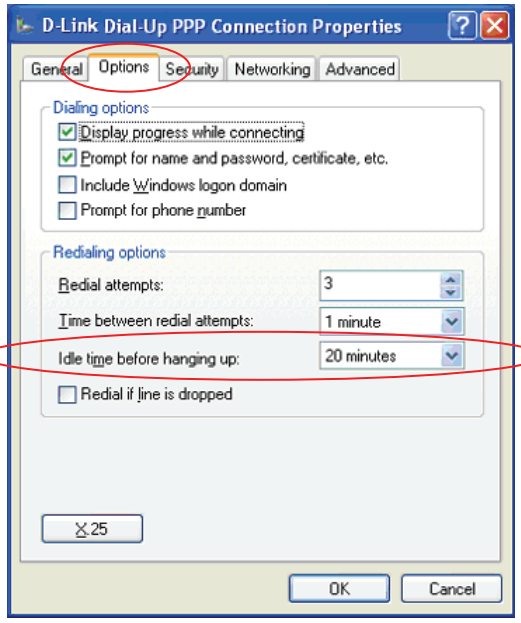
Configuring the Idle time

You can configure the idle time to automatically disconnect the connection after there is no package passing through the connection for the specified period of time by performing the following steps:

1. From the Windows desktop double-click on the D-Link Dial-Up PPP Connection icon while you are not using this connection to bring up the properties window.



2. In the D-Link Dial-Up PPP Connection window, choose Options tab. Select the idle time out period from Idle time before hanging up drop-down list and then click **OK**.



7

UNINSTALLING THE MODEM

If you need to uninstall the Modem, use the Uninstall program available in the DSL-200 Modem folder. Failure to use the Uninstall program can leave files in the system that can cause problems with future installations, including problems with reinstallation of the Modem.

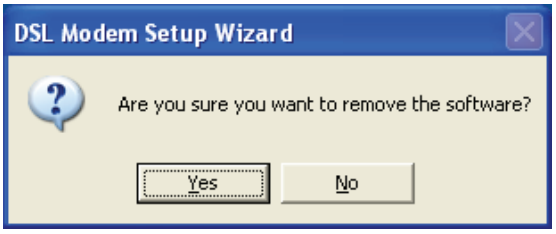
***IMPORTANT:** Do not remove the Modem using the device manager. You must use the Uninstall Program to remove the device.*

Using the Uninstall Program

Use the Uninstall program accessible from Windows desktops. The procedure is the same for all operating systems.

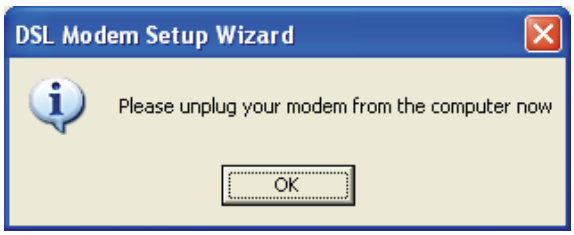
1. Access the Uninstall program from the Start menu. Go to the -Link DSL-200 ADSL Modem folder and select the Uninstall option.

2. You are asked to confirm your intention to remove the device (software). Click **Yes** to uninstall the Modem.

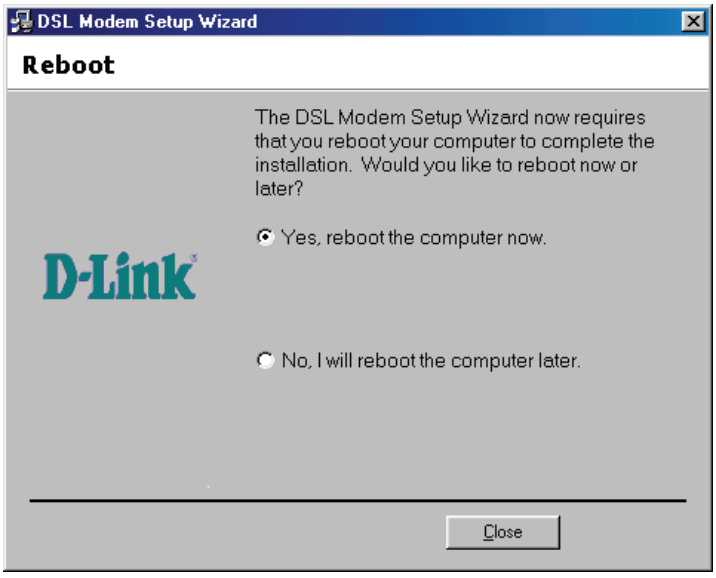


3. A new window appears and asks that you not unplug the USB cable until after the device driver has been completely removed. Click **OK** to proceed.

4. A new window appears asking that you unplug the USB cable. Please unplug your modem from the computer and click **OK** to proceed.



5. The final window informs you that the uninstall process will be completed after rebooting your computer. Click **Close** to reboot your computer and complete the un-installation process.
6.



A

TECHNICAL SPECIFICATIONS

General	
Standards:	ANSI T1.413 issue 2 ITU G.992.1 (G.dmt) ITU G.992.2 (G.lite) ITU G.994.1 (G.hs) USB 1.1 specifications
Protocol:	RFC 2364 PPP over ATM Adaptation Layer 5 RFC 2516 PPP over Ethernet RFC 1483 Multi-protocol Encapsulation over ATM Adaptation Layer 5
Data Transfer Rate:	G.dmt full rate downstream: up to 8Mbps G.dmt full rate upstream: up to 640Kbps G.lite ADSL downstream: up to 1.5Mbps G.lite ADSL upstream: up to 512Kbps
Software Drivers:	Windows 98 Second Edition, Windows 2000, Windows Millennium Edition, Windows XP, Windows XP 64-bit Macintosh Mac OS 9.x/10.2/10.3/10.4
Media Interface Exchange:	ADSL interface: RJ-11 connector for connection to 26 AWG twisted-pair telephone line Host interface: USB Type B port for upstream connection to USB host

Physical and Environmental	
Power Consumption:	2.0 to 2.5 watts (max.)
Operating Temperature:	0 to 40°C (32 to 104 °F)
Storage Temperature:	-25 to 55°C (-13 to 131 °F)
Humidity:	5% - 95% non-condensing
Dimension:	102mm x 62.5mm x 22mm (4.02in x 2.46in x 0.86in)
Device weight:	85gm (0.19lbs)
EMC/Safety:	FCC Class B – Part15/68 , CE Class B, LVD, CB, C-Tick

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FAX: 886-2-6600-1188
URL: www.dlinktw.com.tw

Registration Card

Print, type or use block letters.

Your name: Mr./Ms_____
Organization: _____ Dept._____
Your title at organization: _____
Telephone:_____ Fax: _____
Organization's full address: _____
Country: _____
Date of purchase (Month/Day/Year):_____

Product Model	Product Serial No.	* Product installed in type of computer (e.g., Compaq 486)	* Product installed in computer serial No.

(* Applies to adapters only)
Product was purchased from:
Reseller's name: _____
Telephone: _____ Fax: _____
Reseller's full address: _____

Answers to the following questions help us to support your product:

1. Where and how will the product primarily be used?
☐Home ☐Office ☐Travel ☐Company Business ☐Home Business ☐Personal Use

2. How many employees work at installation site?
☐1 employee ☐2-9 ☐10-49 ☐50-99 ☐100-499 ☐500-999 ☐1000 or more

3. What network protocol(s) does your organization use?
☐XNS/IPX ☐TCP/IP ☐DECnet ☐Others_____

4. What network operating system(s) does your organization use?
☐D-Link LANsmart ☐Novell NetWare ☐NetWare Lite ☐SCO Unix/Xenix ☐PC NFS ☐3Com 3+Open
☐Banyan Vines ☐DECnet Pathwork ☐ Windows NT ☐Windows NTAS ☐Windows '95
☐Others_____

5. What network management program does your organization use?
☐D-View ☐HP OpenView/Windows ☐HP OpenView/Unix ☐SunNet Manager ☐Novell NMS
☐NetView 6000 ☐Others_____

6. What network medium/media does your organization use?
☐Fiber-optics ☐Thick coax Ethernet ☐Thin coax Ethernet ☐10BASE-T UTP/STP
☐100BASE-TX ☐100BASE-T4 ☐100VGAnyLAN ☐Others_____

7. What applications are used on your network?
☐Desktop publishing ☐Spreadsheet ☐Word processing ☐CAD/CAM
☐Database management ☐Accounting ☐Others_____

8. What category best describes your company?
☐Aerospace ☐Engineering ☐Education ☐Finance ☐Hospital ☐Legal ☐Insurance/Real Estate ☐Manufacturing
☐Retail/Chainstore/Wholesale ☐Government ☐Transportation/Utilities/Communication ☐VAR
☐System house/company ☐Other_____

9. Would you recommend your D-Link product to a friend?
☐Yes ☐No ☐Don't know yet

10.Your comments on this product?_____
_____
_____
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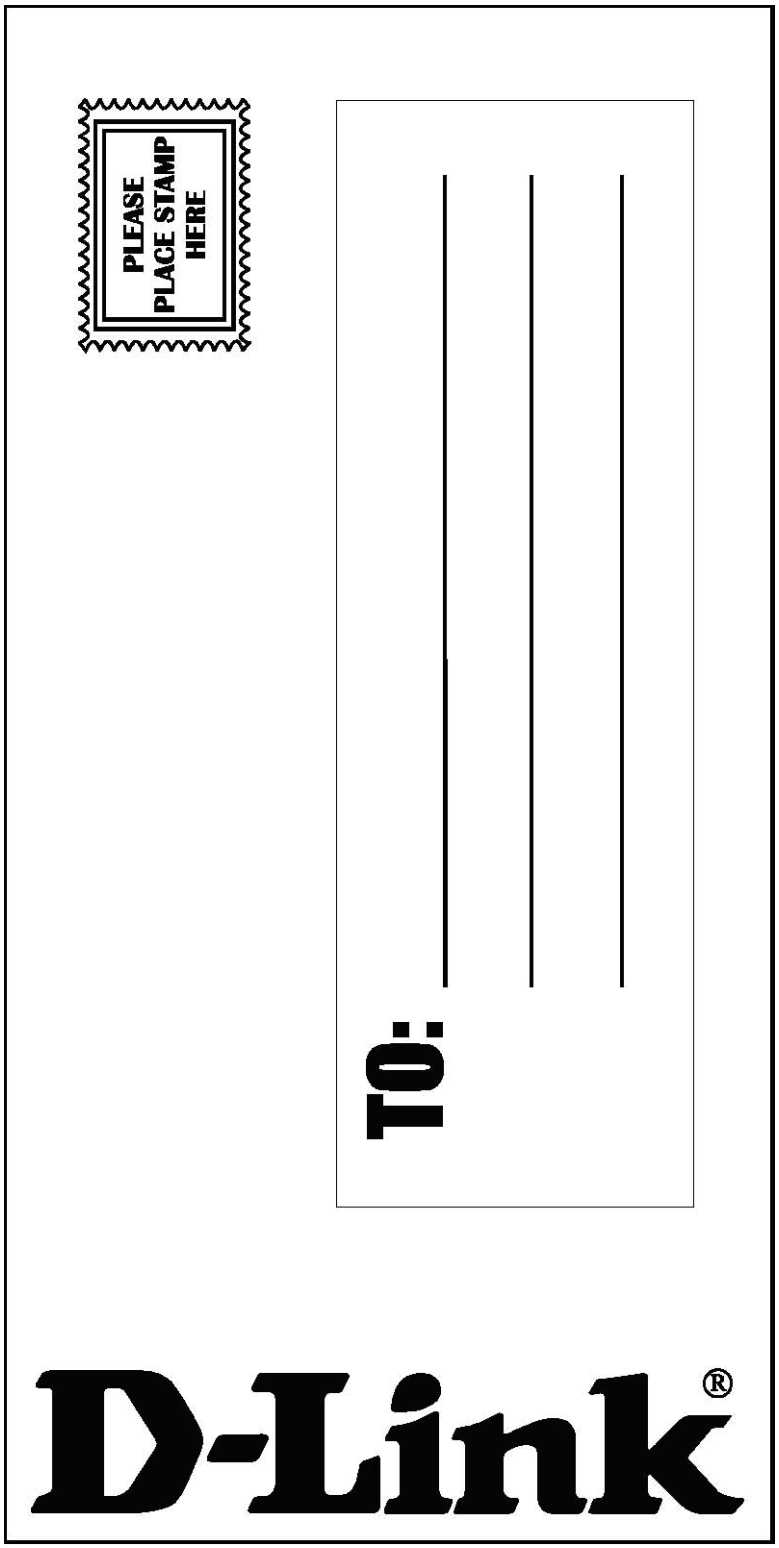
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