

# DSL-200 ADSL USB Modem

User's Guide

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#### Wichtige Sicherheitshinweise

- 1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.
- 2. Heben Sie diese Anleitung für den spätern Gebrauch auf.
- 3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Vervenden Sie keine Flüssig- oder Aerosolreiniger. Am besten dient ein angefeuchtetes Tuch zur Reinigung.
- 4. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zubehörteile verwenden, die vom Hersteller zugelassen sind.
- 5. Das Gerät is vor Feuchtigkeit zu schützen.
- 6. Bei der Aufstellung des Gerätes ist auf sichern Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen. Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.
- 7. Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
- 8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
- 9. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.
- 10.Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollete auch nichts auf der Leitung abgestellt werden.
- 11.Alle Hinweise und Warnungen die sich am Geräten befinden sind zu beachten.
- 12.Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
- 13.Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. Elektrischen Schlag auslösen.
- 14. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem Servicepersonal geöffnet werden.
- 15.Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:
  - a -Netzkabel oder Netzstecker sint beschädigt.
  - b -Flüssigkeit ist in das Gerät eingedrungen.
  - c Das Gerät war Feuchtigkeit ausgesetzt.
  - d –Wenn das Gerät nicht der Bedienungsanleitung ensprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
  - e -Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
  - f Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
- 16.Bei Reparaturen dürfen nur Orginalersatzteile bzw. den Orginalteilen entsprechende Teile verwendet werden. Der Einsatz von ungeeigneten Ersatzteilen kann eine weitere Beschädigung hervorrufen.
- 17.Wenden Sie sich mit allen Fragen die Service und Repartur betreffen an Ihren Servicepartner. Somit stellen Sie die Betriebssicherheit des Gerätes sicher.

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Complete products	One year
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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 Monitoring the Modem describes the various status monitoring functions available with the Modem.
- Appendix A *Technical Specifications* is a list of specifications for the Modem.
- ♦ Appendix B Uninstalling the Modem describes the steps necessary to uninstall the Modem and its driver.

# **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, Windows 98 Second Edition, Windows 2000, Windows Millennium Edition or Windows XP.

## ü 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.

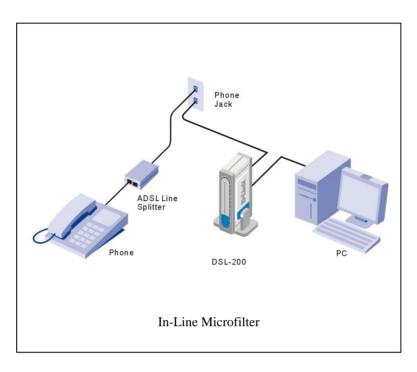
## **Microfilters and Splitters**

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, inline devices, which attach to the cable telephone 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.



**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.

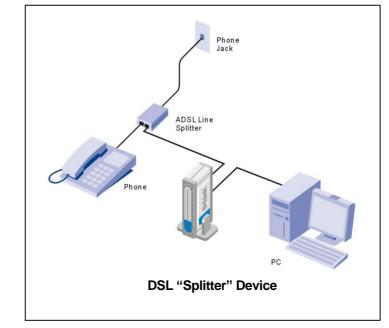
## Line Splitter

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.

## **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 2684, *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.

SETTING	S TABLE (all users)
VPI:	VCI:
<b>Software Driver:</b> The driver used depends on the connection	n protocol used for your network services.
	ection is a <b>PPP connection</b> . That is if you I or RFC 2516 PPPoE PPP over Ethernet.
Ø Select the LAN driver if you are usi	ng RFC 2684 Ethernet over ATM.
Encapsulation Method: (choose one)	
WAN Driver:	
RFC 2364 PPPoATM NULL Encapsu	lation
RFC 2364 PPPoATM LLC Encapsula	ation
RFC 2516 PPPoE Encapsulation	
LAN Driver:	
RFC 2684 IPoATM Bridged LLC Enc	apsulation
RFC 2684 IPoATM Bridged VC Enca	psulation
RFC 2684 IPoATM Routed LLC Enca	apsulation
RFC 2684 IPoATM Routed VC Encap	osulation
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:** 

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## 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 (<u>www.adsl.com</u>) 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 <a href="http://tsd.dlink.com.tw">http://tsd.dlink.com.tw</a>.

## **Product Features**

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

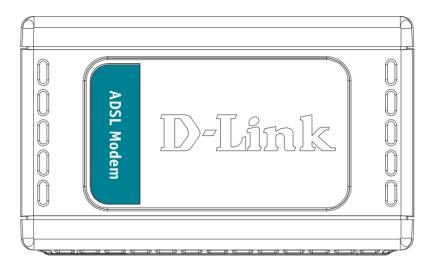
- Ø G.hs compliant (Auto-handshake)
- Ø G.dmt full rate compliant
- Ø G.lite compliant
- Ø RFC 2684 (Bridged Ethernet) compliant
- Ø RFC 2364 PPP over ATM compliant
- Ø RFC 2516 PPP over Ethernet compliant
- Ø Compatible with all T1.413 issue 2 (full rate DMT over analog POTS), and CO DSLAM equipment
- Ø Compliant with USB Specification Revision 1.1
- Ø USB interface to PC host
- Ø Plug and Play installation
- Ø Easy to upgrade software
- Ø GUI based configuration and diagnostic tool
- Ø Supports up to sixteen simultaneous ATM virtual connections

### **Rear Panel**

$\bigcap$	$\square$
H	$\vdash$
	L

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

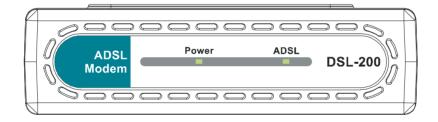
## Front Panel



## **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.



# **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
- Microsoft Windows 98 Second Edition
- Microsoft Windows 2000
- Microsoft Windows Millennium Edition
- Microsoft Windows XP

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 Appendix B 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 2684, *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, Windows 98 Second Edition, Windows 2000 or Windows Millennium Edition (Windows Me) 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.

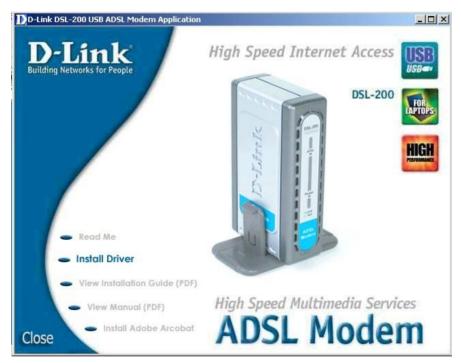
#### Install the Driver

Before starting the software setup process, close all windows and quit any application programs you are running. The installation procedure presented here is the same for Windows 98, 98SE, Me, 2000,  $XP^*$  operating systems.

\* For Windows XP installations, please read the Read Me file on the Installation CD-ROM.

Follow these steps to install the software driver for the Modem:

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 start.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. Click the Driver Install button. 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.

	Select your ADSL connection type from the list below, and then click Next to continue.
D-Link	PPPoA for Australia PPPoA for New Zealand PPPoE for Australia PPPoE for New Zealand Bridged Connection Other Service Provider

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

	Select the type of driver that will be installed. This choice depends on the service provider you are using. ATM Driver
D-Link	LAN Driver WAN Driver

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.

DSL Modem Setup Wiz	
D-Link	Enter your communication settings below. These settings are supplied by your service provider.          VPI:       0       VCI:       88         Encapsulation:       RFC 1577 Classical IPoATM       Image: Classical IPoATM         Modulation:       Multimode       Image: Classical IPoATM
	<back next=""> Cancel</back>

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.

**Note:** 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. Refer to the Settings Table if you have it completed.

	Enter your communication settings below. These settings are supplied by your service provider.
	VPI: 0 VCI: 88
D-Link	Encapsulation:
	RFC 1577 Classical IP041M RFC 1483 IP0ATM Bridged LLC Encapsulation RFC 1483 IP0ATM Bridged VC Encapsulation RFC 1483 IP0ATM Routed LLC Encapsulation RFC 1483 IP0ATM Routed VC Encapsulation

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

If you are using the LAN driver, select the appropriate RFC 2684 encapsulation setting. If your service provider has not specified an encapsulation setting, use RFC 2684 IPoATM Bridged LLC Encapsulation.

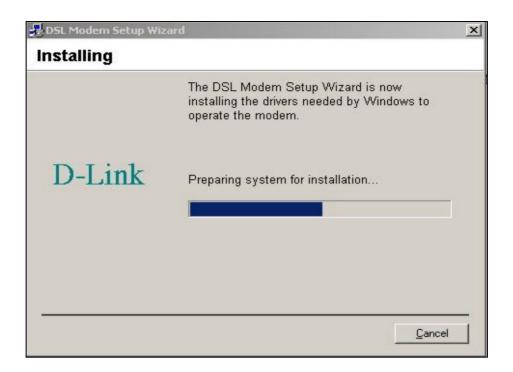
8. Again in the same window, select the proper Modulation settings using the dropdown menu. Your service provider will give you the appropriate Modulation settings. Choose T1.413, Multimode, G.Lite or G.DMT. If your service provider has not specified a modulation setting, use Multimode. Click Next to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

		ommunication settings below. These supplied by your service provider.
	VPI: 0	VCI: 88
D-Link	Encapsulatio	
	JHFC 1463 IF	PoATM Bridged LLC Encapsulation
	Modulation:	Multimode
		T1.413 Multimode
		G.Lite

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

the driver files. If you want to review or chang any settings, click Back. If you are satisfied with the settings, click Next to begin copying files. Driver Type: LAN Annex Type: A VPI: 0		Setup has enough information to start copying
with the settings, click Next to begin copying files. D-Link Driver Type: LAN Annex Type: A VPI: 0		the driver files. If you want to review or change
files. D-Link Driver Type: LAN Annex Type: A VPI: 0		
Annex Type: A VPI: 0		
Annex Type: A VPI: 0	D-Link	Driver Type: LAN
		VCI: 88
Encapsulation: RFC 1483 IPoATM Bridged Modulation: Multimode		

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

talling         The DSL Modem Setup Wizard is now installing the drivers needed by Windows to operate the modem.         'he DSL Installer is searching for installed hardware. If your modem is ot yet plugged in to your computer, please plug it in now.
installing the drivers needed by Windows to operate the modem. he DSL Installer is searching for installed hardware. If your modem is

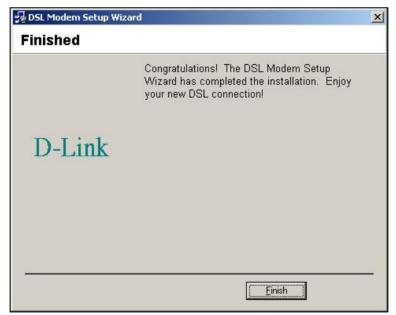
12. The Found New Hardware screen will appear notifying you that your computer has detected the modem and is currently installing it.



13. At the end of this process, the Reboot screen will appear prompting you to restart your computer. Choose "Yes" because it is necessary to reboot your computer to continue the installation

	The DSL Modem Setup Wizard now requires that you reboot your computer to complete the installation. Would you like to reboot now or later?
D-Link	<ul> <li>Yes, reboot the computer now.</li> </ul>
	$\mathbb C$ No, I will reboot the computer later.

14. 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.



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 PPP Connection icon will appear on your desktop after restarting.

## 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
<u>\$</u>		<b>Training</b> Both arrows will alternate yellow and brown in color while during the negotiation of the ADSL connection
<b>A</b>		<b>Connection Established</b> Both arrows appear dark green when the connection has been establish (and no data is being passed in either direction)
<b>*</b>		<b>Transmitting Data</b> The Up arrow appears light green when data is being transmitted
		<b>Receiving Data</b> The Down arrow appears light green when data is being transmitted
		<b>Error</b> 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.



# **CONNECT TO THE INTERNET**

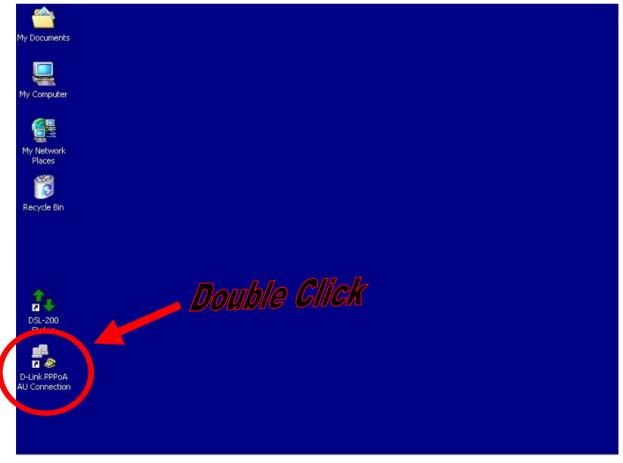
Now that the driver has been installed, you are ready to connect to the Internet. You establish an Internet connection indirectly, using DSL link to your network service provider. Follow the instructions for the driver you have installed and the operating system you use on your computer.

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 differ. The screen captures used for this manual are from a Windows 2000 installation.



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

暮 Connect To		? ×
<b>≞</b> ⊰ <b>⊡</b> , D-L	.ink Dial-Up	
<u>U</u> ser name:	Joy Chen	_
Password:	*****	_
	Save password	
Phone <u>n</u> umber:	0,35	
Dialing from:	New Location	Dial Properties
	Connect	Cancel

In the Connect To window type in the correct User name and Password given to you by your ADSL or network service provider. Check 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. Click Connect. It may take a few seconds for the connection to be established.

Connection Established	×
You are connected to D-Link Dial-Up PPP Connection.	
To disconnect or to view status information, double-click the dial-up icon in the status area of the taskbar.	
You can also double-click the connection icon in the Dial-Up Networking folder.	
Do not show this dialog box in the future.	
Close More Information	

Once the negotiation of the ADSL connection is complete, the Connection Established window will appear. Click Close. 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 2684 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:

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

### Windows 98 or Windows Me (LAN Driver)

Follow these steps if you are using the RFC 2684 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/IPà 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.

After all the TCP/IP information has been entered, click OK.

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 or Windows XP (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.

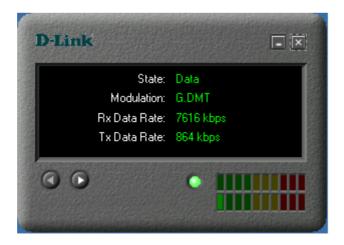
**5** Monitoring the Modem

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.





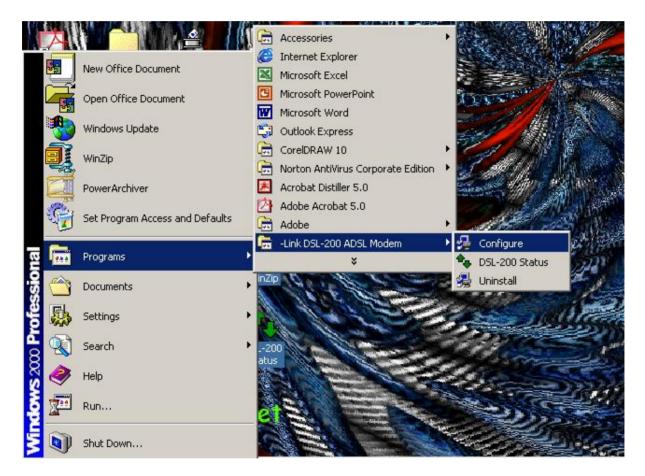


Under the screen to the left are two scroll buttons **Clicking** on the right scroll button will bring up the screen pictured above, showing the Current Driver and Control Panel versions. Clicking on the left scroll button will return you to the initial screen.



# **CHANGING MODEM CONFIGURATION**

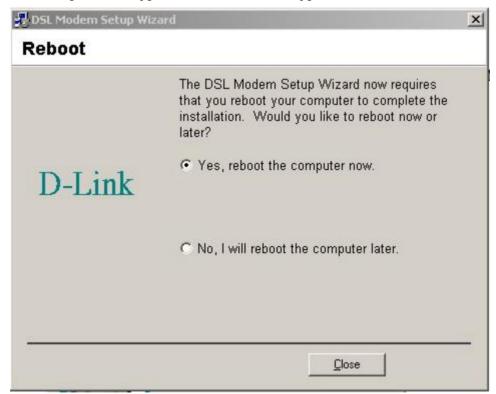
Once the Modem and software have been installed the communication settings may be easily updated by performing the following steps:



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

🛃 DSL Modem Setup Wiz	ard			×
Communication	Settings			
D-Link	settings are s VPI: 0 Encapsulatio	ommunication setti supplied by your se on: Classical IPoATM	ervice provider.	se 18
	Modulation:	Multimode		•
		< Back	Next>	Cancel

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



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.



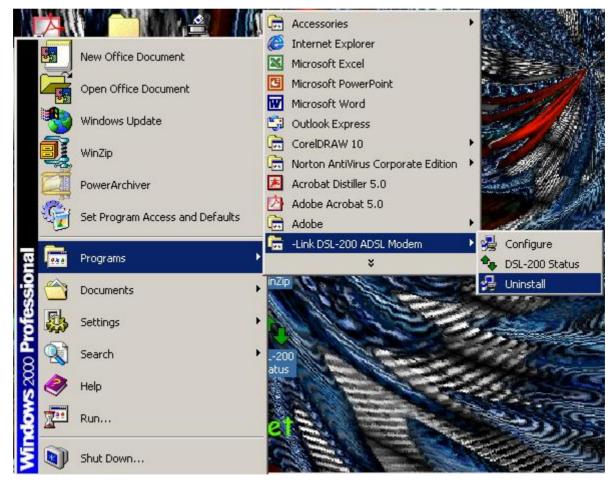
# **UNINSTALLING THE MODEM**

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.



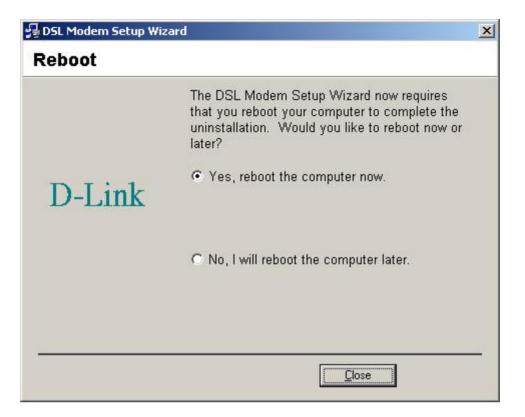
2. You are asked to confirm your intention to remove the device (software). Click Yes to uninstall the Modem.

DSL Mode	em Setup Wizard 🔀
٩	Please don't unplug the USB cable until after the Setup Wizard has finished.
7	OK

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.

DSL Mod	em Setup Wizard	×
<b>i</b>	Please unplug your modem from the comp	uter now
	OK ]	

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 uninstallation process.



# **TECHNICAL SPECIFICATIONS**

General		
	ANSI T1.413 issue 2	
	ITU G.992.1 (G.dmt)	
Standards:	ITU G.992.2 (G.lite)	
	ITU G.994.1 (G.hs)	
	USB 1.1 specifications	
	RFC 2364 PPP over ATM Adaptation Layer 5	
Protocol:	RFC 2516 PPP over Ethernet	
	RFC 2684 Multiprotocol Encapsulation over ATM Adaptation Layer 5	
	G.dmt full rate downstream: up to 8Mbps	
Data Transfer Rate:	G.dmt full rate upstream: up to 640Kbps	
Data Transfer Rate:	G.lite ADSL downstream: up to 1.5Mbps	
	G.lite ADSL upstream: up to 512Kbps	
Software Drivers:	Microsoft Windows 98, Windows 98 Second Edition	
Software Drivers:	Windows 2000, Windows Millennium Edition, Windows XP	
Media Interface	ADSL interface: RJ-11 connector for connection to 26 AWG twisted-pair telephone line	
Exchange:	Host interface: USB Type B port for upstream connection to USB host	

Physical and Environmental			
Power Consumption:	2.5 watts (max.)		
Operating Temperature:	0° to 40° C (32° to 104° F)		
Storage Temperature:	-20° to 70° (-20° to 158° F)		
Humidity:	5% - 95% non-condensing		
Dimensions:	102mm x 62.5mm x 28mm (4.02in x 2.46in x 1.10in)		
Weight:	150gm (0.33lbs)		
EMC:	FCC Class B, CE Class B, C-Tick, BSMI Class B		
Safety: UL/CUL, TUV			

## **D-Link** Offices

Australia	D-Link Australasia Unit 16, 390 Eastern Valley Way, Roseville, NSW 2069 Australia TEL: 61-2-9417-7100 FAX: 61-2-9417-1077 TOLL FREE (Australia): 1800-177100 TOLL FREE (New Zealand): 0800-900900 URL: www.dlink.com.au E-MAIL: support@dlink.com.au & info@dlink.com.au	
Canada	D-Link Canada 2180 Winston Park Drive, Oakville, Ontario, L6H 5W1 Canada TEL: 1-905-829-5033 FAX: 1-905-829-5095 BBS: 1-965-279-8732 TOLL FREE: 1-800-354- 6522 URL: <u>www.dlink.ca</u> FTP: <u>ftp.dlinknet.com</u> E-MAIL: <u>techsup@dlink.ca</u>	
Chile	D-Link South America Isidora Goyeechea 2934 of 702, Las Condes, Santiago, Chile, S. A. TEL: 56-2-232-3185 FAX: 56-2-232-0923 URL: <u>www.dlink.cl</u> E-MAIL: <u>ccasassu@dlink.cl</u> & <u>tsilva@dlink.cl</u>	
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Germany	D-Link Central Europe/D-Link Deutschland GmbH Schwalbacher Strasse 74, D-65760 Eschborn, Germany TEL: 49-6196-77990 FAX: 49-6196-7799300 URL: <u>www.dlink.de</u> BBS: 49-(0) 6192-971199 (analog) BBS: 49-(0) 6192-971198 (ISDN) INFO: 00800-7250-0000 (toll free) HELP: 00800-7250-4000 (toll free) REPAIR: 00800-7250-8000 E-MAIL: <u>info@dlink.de</u>	
India	D-Link India Plot No.5, Kurla-Bandra Complex Rd., Off Cst Rd., Santacruz (E), Bombay, 400 098 India TEL: 91-22-652-6696 FAX: 91-22-652-8914 URL: <u>www.dlink-india.com</u> E-MAIL: <u>service@dlink.india.com</u>	
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Japan	D-Link Japan 10F, 8-8-15 Nishi-Gotanda, Shinagawa-ku, Tokyo 141, Japan TEL: 81-3-5434-9678 FAX: 81-3-5434-9868 URL: <u>www.d-link.co.jp</u> E-MAIL: <u>kida@d-link.co.jp</u>	
Netherlands	D-Link Benelux Fellenoord 1305611 ZB, Eindhoven, the Netherlands TEL: 31-40-2668713 FAX: 31-40-2668666 URL: <u>www.d-link-benelux.nl</u>	

Norway	D-Link Norway Waldemar Thranesgt. 77, 0175 Oslo, Norway TEL: 47-22-991890 FAX: 47-22-207039
Russia	D-Link Russia Michurinski Prospekt 49, 117607 Moscow, Russia TEL: 7-095-737-3389 & 7-095-737-3492 FAX: 7-095-737-3390 URL: <u>www.dlink.ru</u> E-MAIL: <u>vl@dlink.ru</u>
Singapore	D-Link International 1 International Business Park, #03-12 The Synergy, Singapore 609917 TEL: 65-774-6233 FAX: 65-774-6322 E-MAIL: <u>info@dlink.com.sg</u> URL: <u>www.dlink-intl.com</u>
South Africa	D-Link South Africa 102 – 106 Witchhazel Avenue, Einstein Park 2, Block B, Highveld Technopark, Centurion, South Africa TEL: 27 (0) 12-665-2165 FAX: 27 (0) 12-665-2186 URL: <u>www.d-link.co.za</u> E-MAIL: <u>attie@d-link.co.za</u>
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Taiwan	D-Link Taiwan 2F, No. 119 Pao-Chung Rd, Hsin-Tien, Taipei, Taiwan TEL: 886-2-2910-2626 FAX: 886-2-2910-1515 URL: <u>www.dlinktw.com.tw</u> E-MAIL: <u>dssqa@tsc.dlinktw.com.tw</u>
U.K.	D-Link Europe 4 <sup>th</sup> Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom TEL: 44 (0) 20-8731-5555 FAX: 44 (0) 20-8731-5511 BBS: 44 (0) 181-235-5511 URL: <u>www.dlink.co.uk</u> E-MAIL: <u>info@dlink.co.uk</u>
U.S.A.	D-Link U.S.A. 53 Discovery Drive, Irvine, CA 92618, USA TEL: 1-949-788-0805 FAX: 1-949-753-7033 BBS: 1-949-455-1779 & 1-949-455-9616 INFO: 1-800-326-1688 URL: <u>www.dlink.com</u> E-MAIL: <u>tech@dlink.com</u> & <u>support@dlink.com</u>

### **Registration Card**

#### Print, type or use block letters.

Dept.	
· · · · ·	
Fax:	

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 a	dapters only)	-	

<b>``</b>	•	,,
Product was p	urchase	ed from:
Reseller's nam	ne:	
Telephone:		
Reseller's full a	address	3:

\_\_\_ Fax:\_\_

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

<ol> <li>Where and how will the product primarily be used?</li> <li>OHome OOffice OTravel OCompany Business OHome Business OPersonal Use</li> </ol>
2. How many employees work at installation site? o1 employee o2-9 o10-49 o50-99 o100-499 o500-999 o1000 or more
3. What network protocol(s) does your organization use ? OXNS/IPX OTCP/IP ODECnet OOthers
<ul> <li>4. What network operating system(s) does your organization use ?</li> <li>oD-Link LANsmart oNovell NetWare oNetWare Lite oSCO Unix/Xenix oPC NFS o3Com 3+Open</li> <li>oBanyan Vines oDECnet Pathwork oWindows NT oWindows NTAS oWindows '95</li> <li>oOthers</li> </ul>
5. What network management program does your organization use ? oD-View oHP OpenView/Windows oHP OpenView/Unix oSunNet Manager oNovell NMS oNetView 6000 oOthers
6. What network medium/media does your organization use ? oFiber-optics oThick coax Ethernet oThin coax Ethernet o10BASE-T UTP/STP o100BASE-TX o100BASE-T4 o100VGAnyLAN oOthers
<ul> <li>7. What applications are used on your network?</li> <li>ODesktop publishing OSpreadsheet OWord processing OCAD/CAM</li> <li>ODatabase management OAccounting OOthers</li></ul>
<ul> <li>8. What category best describes your company?</li> <li>OAerospace OEngineering OEducation OFinance OHospital OLegal OInsurance/Real Estate</li> <li>OManufacturing</li> <li>ORetail/Chainstore/Wholesale OGovernment OTransportation/Utilities/Communication OVAR</li> <li>OSystem house/company OOther</li></ul>
0 Would you recommand your D Link product to a friend?

9. Would you recommend your D-Link product to a friend? OYes ONo ODon't know yet

#### 10. Your comments on this product? \_\_\_\_\_

