D-Link®

DSL-260I ADSL USB Modem

User's Guide

First Edition Revision 01 (July 2002)

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RECYCLABLE

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.

Limited Warranty

Hardware:

D-Link warrants its hardware products to be free from defects in workmanship and materials, under normal use and service, for the following periods measured from date of purchase from D-Link or its Authorized Reseller:

Product Type	Warranty Period
Complete products	One year
Spare parts and spare kits	90 days

The one-year period of warranty on complete products applies on condition that the product's Registration Card is filled out and returned to a D-Link office within ninety (90) days of purchase. A list of D-Link offices is provided at the back of this manual, together with a copy of the Registration Card. Failing such timely registration of purchase, the warranty period shall be limited to 90 days.

If the product proves defective within the applicable warranty period, D-Link will provide repair or replacement of the product. D-Link shall have the sole discretion whether to repair or replace, and replacement product may be new or reconditioned. Replacement product shall be of equivalent or better specifications, relative to the defective product, but need not be identical. Any product or part repaired by D-Link pursuant to this warranty shall have a warranty period of not less than 90 days, from date of such repair, irrespective of any earlier expiration of original warranty period. When D-Link provides replacement, then the defective product becomes the property of D-Link.

Warranty service may be obtained by contacting a D-Link office within the applicable warranty period, and requesting a Return Material Authorization (RMA) number. If a Registration Card for the product in question has not been returned to D-Link, then a proof of purchase (such as a copy of the dated purchase invoice) must be provided. If Purchaser's circumstances require special handling of warranty correction, then at the time of requesting RMA number, Purchaser may also propose special procedure as may be suitable to the case.

After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. The package must be mailed or otherwise shipped to D-Link with all costs of mailing/shipping/insurance prepaid; D-Link will ordinarily reimburse Purchaser for mailing/shipping/insurance expenses incurred for return of defective product in accordance with this warranty. D-Link shall never be responsible for any software, firmware, information, or memory data of Purchaser contained in, stored on, or integrated with any product returned to D-Link pursuant to this warranty.

Any package returned to D-Link without an RMA number will be rejected and shipped back to Purchaser at Purchaser's expense, and D-Link reserves the right in such a case to levy a reasonable handling charge in addition mailing or shipping costs.

Software:

Warranty service for software products may be obtained by contacting a D-Link office within the applicable warranty period. A list of D-Link offices is provided at the back of this manual, together with a copy of the Registration Card. If a Registration Card for the product in question has not been returned to a D-Link office, then a proof of purchase (such as a copy of the dated purchase invoice) must be provided when requesting warranty service. The term "purchase" in this software warranty refers to the purchase transaction and resulting license to use such software.

D-Link warrants that its software products will perform in substantial conformance with the applicable product documentation provided by D-Link with such software product, for a period of ninety (90) days from the date of purchase from D-Link or its Authorized Reseller. D-Link warrants the magnetic media, on which D-Link provides its software product, against failure during the same warranty period. This warranty applies to purchased software, and to replacement software provided by D-Link pursuant to this warranty, but shall not

apply to any update or replacement which may be provided for download via the Internet, or to any update which may otherwise be provided free of charge.

D-Link's sole obligation under this software warranty shall be to replace any defective software product with product that substantially conforms to D-Link's applicable product documentation. Purchaser assumes responsibility for the selection of appropriate application and system/platform software and associated reference materials. D-Link makes no warranty that its software products will work in combination with any hardware, or any application or system/platform software product provided by any third party, excepting only such products as are expressly represented, in D-Link's applicable product documentation as being compatible. D-Link's obligation under this warranty shall be a reasonable effort to provide compatibility, but D-Link shall have no obligation to provide compatibility when there is fault in the third-party hardware or software. D-Link makes no warranty that operation of its software products will be uninterrupted or absolutely error-free, and no warranty that all defects in the software product, within or without the scope of D-Link's applicable product documentation, will be corrected.

LIMITATION OF WARRANTIES

IF THE D-LINK PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT D-LINK'S OPTION, REPAIR OR REPLACEMENT. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. D-LINK NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION MAINTENANCE OR USE OF D-LINK'S PRODUCTS

D-LINK SHALL NOT BE LIABLE UNDER THIS WARRANTY IF ITS TESTING AND EXAMINATION DISCLOSE THAT THE ALLEGED DEFECT IN THE PRODUCT DOES NOT EXIST OR WAS CAUSED BY THE CUSTOMER'S OR ANY THIRD PERSON'S MISUSE, NEGLECT, IMPROPER INSTALLATION OR TESTING, UNAUTHORIZED ATTEMPTS TO REPAIR, OR ANY OTHER CAUSE BEYOND THE RANGE OF THE INTENDED USE, OR BY ACCIDENT, FIRE, LIGHTNING OR OTHER HAZARD.

LIMITATION OF LIABILITY

IN NO EVENT WILL D-LINK BE LIABLE FOR ANY DAMAGES, INCLUDING LOSS OF DATA, LOSS OF PROFITS, COST OF COVER OR OTHER INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES ARISING OUT THE INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE OR INTERRUPTION OF A D- LINK PRODUCT, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY. THIS LIMITATION WILL APPLY EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

IF YOU PURCHASED A D-LINK PRODUCT IN THE UNITED STATES, SOME STATES DO NOT ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

D-Link Offices for Registration and Warranty Service

The product's Registration Card, provided at the back of this manual, must be sent to a D-Link office. To obtain an RMA number for warranty service as to a hardware product, or to obtain warranty service as to a software product, contact the D-Link office nearest you. An addresses/telephone/fax list of D-Link offices is provided in the back of this manual.

Trademarks

Copyright Statement

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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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 System and Other Requirements

The D-Link *DSL-260I* can be used with PCs running Microsoft® Windows 98, Windows 98 Second Edition, Windows 2000, Windows Millennium Edition (ME) or Windows XP.

USB Port

In addition to the Windows OS, you will need an available USB (Universal Serial Bus) port, compliant with the USB 1.1 specification, on your computer. These are commonly installed on newer computers, however older PCs may require the installation of a suitable USB port.

ADSL Service

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

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 PPPoA or the PPPoE 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* – install the PPPoA driver, or if your ADSL service uses the protocol defined by **RFC 2516**, *PPP over Ethernet* – install the PPPoE 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:

LAN driver – To your computer, the Modem appears as an Ethernet device. Connection is automatic, similar to a connection to an Ethernet device. If your ADSL service provider assigns you a static IP address, you can configure the LAN driver to use this address (along with a subnet mask, gateway IP address, and DNS server address). No additional software is required, but you must have the appropriate addresses for your connection supplied by your ADSL service provider.

PPPoE driver – To your computer, the Modem appears as a conventional dial-up modem device – employing 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. This driver uses the **Point-to-Point over Ethernet (PPPoE)** protocol.

PPPoA driver – To your computer, the Modem appears as a conventional dial-up modem device – employing 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 still need to provide a username and password to log-on. This driver uses the **Point-to-Point over ATM (PPPoA)** protocol.

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)
Software Driver: The driver used depends on the connection protocol used for your network services. ➢ Select the **PPPoA driver** if your connection is a **PPPoA connection**. That is, if your service provider is using RFC 2364 PPP over ATM to provide your connection to the Internet. ➢ Select the **PPPoE driver** if your connection is a **PPPoE connection**. That is, if your service provider is using RFC 2516 PPP over Ethernet to provide your connection to the Internet. ➢ Select the **LAN driver** if your service provider is using RFC 1483 **Ethernet over ATM**.
Encapsulation Method: (choose one) **PPPoA Driver:** RFC 2364 PPPoATM NULL Encapsulation RFC 2364 PPPoATM LLC Encapsulation **PPPoE Driver:** RFC 2516 PPPoE Encapsulation **LAN Driver:** RFC 1483 Ethernet over ATM Bridged LLC Encapsulation RFC 1483 Ethernet over ATM 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
User Name:
Password:

IP CONFIGURATION
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-260I* 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-260I* 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.

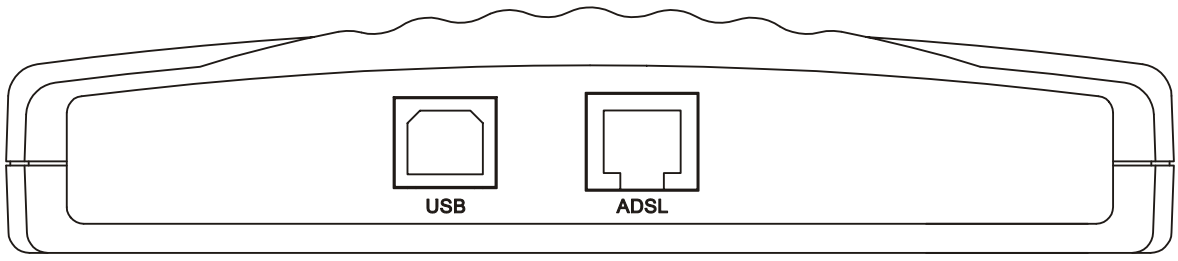
Software drivers for D-Link ADSL USB Modems can be fully upgraded by simply loading newer versions onto your PC. This will allow you to update the modem and use new features and enhancements as they are developed and standardized.

Product Features

The D-Link *DSL-260I* Modem provides the following features:

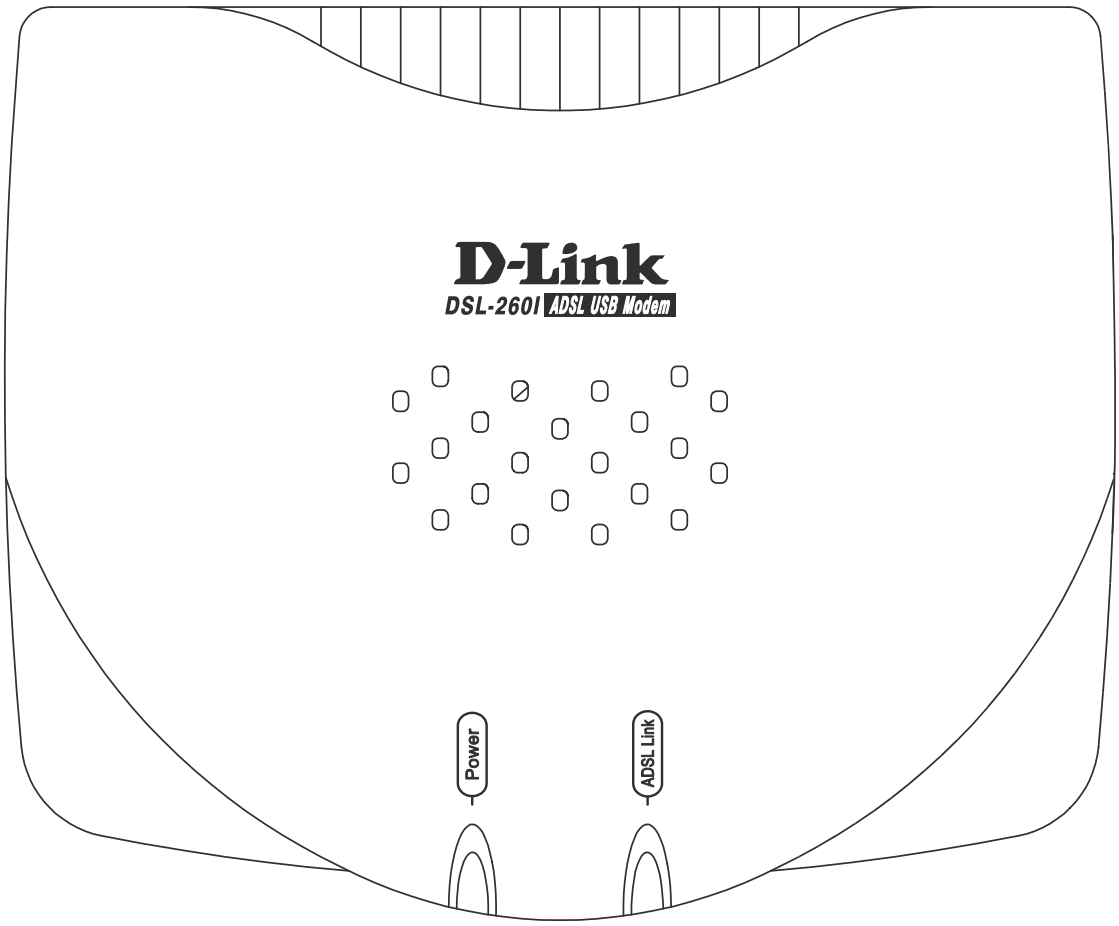
- G.hs compliant (Auto-handshake)
- G.dmt full rate compliant
- G.lite compliant
- RFC 1483 *Bridged Ethernet* compliant
- RFC 1483 *IP over ATM* compliant
- RFC 2364 *PPP over ATM* compliant
- RFC 2516 *PPP over Ethernet* compliant
- Compatible with all T1.413 issue 2 (full rate DMT over analog POTS), 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 Cable

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 YET!

You must install the software driver before you connect the device to your computer via the USB cable. You will be instructed to connect the device at a later point during the installation process. Connecting the USB cable at this point will initiate the Found New Hardware process and the Found New Hardware wizard may select the wrong driver software for your ADSL connection. Please wait until after you have installed the correct driver before connecting your new modem.

3

SOFTWARE INSTALLATION

The *DSL-260I* 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 procedure for each operating system is slightly different. 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 6 for instructions.

Installing the Driver Software

Your new *DSL-260I* USB ADSL modem is supplied with three different drivers – the LAN, PPPoA, and PPPoE drivers. You only need to install one of these three drivers. ***Do not install more than one driver for you new DSL-260I.*** The correct driver to install is determined by the type of service your ADSL service provider offers. Read the following section to determine the correct driver to install.

The installation requires two distinct steps. First, the correct driver is installed and your PC restarted. Once your PC has restarted, you connect the *DSL-260I* modem to your USB port. Your PC will recognize the modem and load the appropriate software into your system. You can then configure the software to the appropriate settings for your ADSL service provider.

Which Driver to Install?

The selection of the driver for your new *DSL-260I* modem is dependent upon the type of service offered by your ADSL service provider or ISP. The ***LAN*** driver makes your *DSL-260I* modem appear as an Ethernet connection and may requires only the static IP address information (including subnet mask, gateway IP address, and DNS server IP address) provided by your ADSL service provider. The ***PPPoE*** and ***PPPoA*** drivers use Windows Dial-up support to establish and manage the ADSL connection (no additional software is required). The ***PPPoE*** driver provides Point-to-Point Protocol over Ethernet (PPPoE) support while the ***PPPoA*** driver provides Point-to-Point Protocol over ATM (PPPoA) support. Consult your ADSL service provider to determine which protocol is appropriate for your connection.

LAN - driver (RFC 1483) creates a software emulation of a standard Ethernet connection between your computer and the *DSL-260I* ADSL modem. If your ADSL service provider assigns you a static IP address, you can configure the LAN driver to use this address (along with a subnet mask, gateway IP address, and DNS server address). No additional software is required, but you must have the appropriate addresses for your connection supplied by your ADSL service provider. Contact your ADSL service provider to determine the proper PPPoE software to use and for documentation on the installation and configuration of the third-party software.

PPPoE - driver (RFC 2516) adds **PPPoE** support. The PPPoE driver uses Windows Dial-up networking support to establish and manage the connection between your computer and the ADSL service provider. This driver is used to establish and manage a connection to an ADSL service provider that uses the PPPoE protocol.

PPPoA - driver (RFC 2364) adds **PPPoA** support. The PPPoA driver uses Windows Dial-up networking support to establish and manage the connection between your computer and the ADSL service provider. This driver is used to establish and manage a connection to an ADSL service provider the uses the PPPoA protocol.

Installing the LAN Driver

Before starting the LAN driver installation process, close all open windows and quit any application programs you are running. There are two installation procedures presented here, the first is for Windows 98, 98SE, ME, and 2000 operating systems. The second is for Windows XP. Follow the procedure for your system.

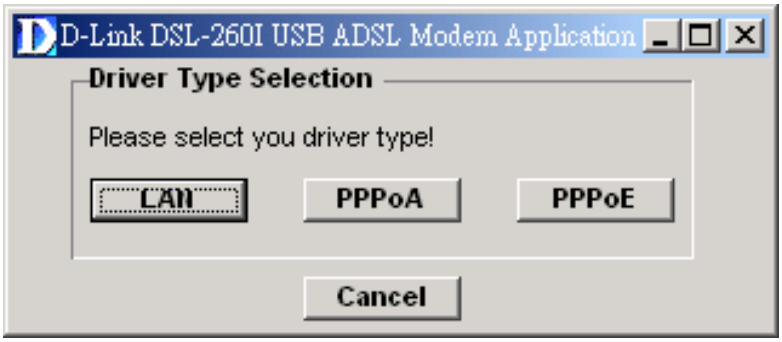
IMPORTANT: DO NOT CONNECT THE USB CABLE UNTIL INSTRUCTED TO DO SO. INSTALL THE MODEM SOFTWARE BEFORE YOU CONNECT THE USB CABLE.

Windows 98, 98SE, ME, 2000 (LAN Driver)

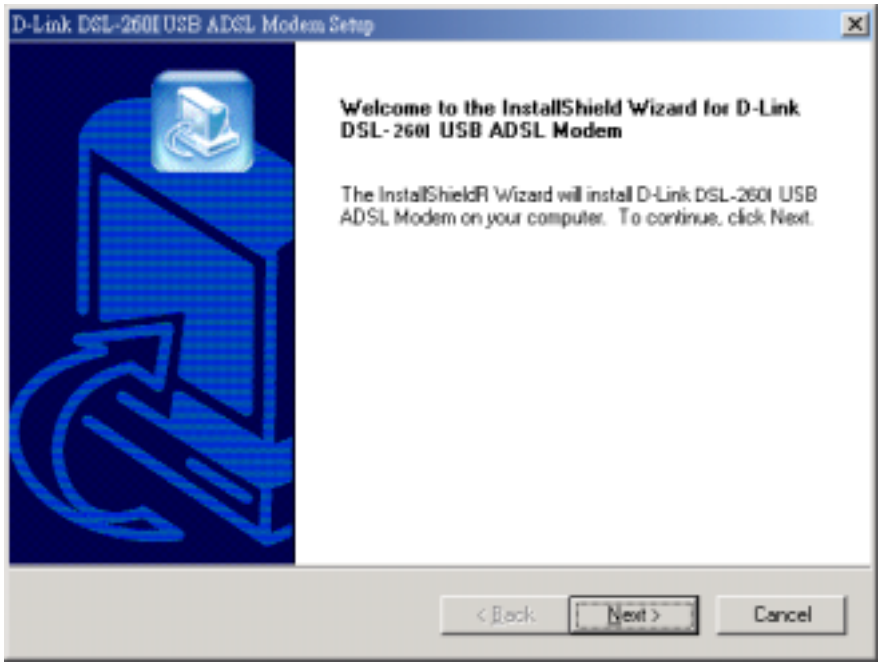
1. Insert the *DSL-260I* Installation CD into the CD-ROM drive. The system should detect the installation program and run the program automatically. If installation does not begin automatically after a few seconds, find the start.exe icon located on the CD and double-click this. To view the contents 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.

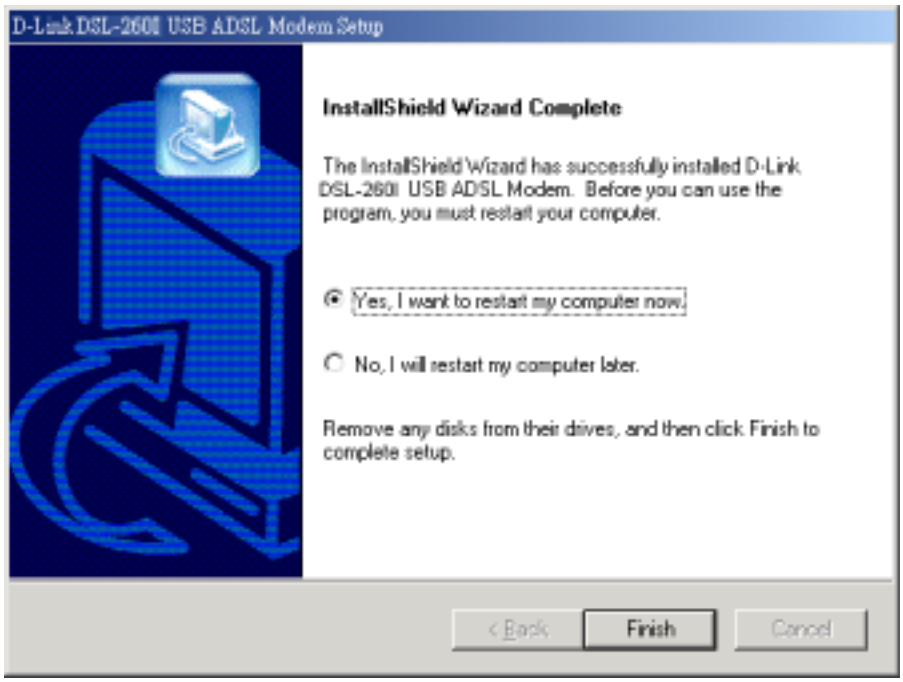
3. The "Driver Type Selection" window appears. Click the "LAN" button.



4. The Welcome window appears. Click "Next" to copy the driver files. If you have yet done so, exit all other programs before you install driver.

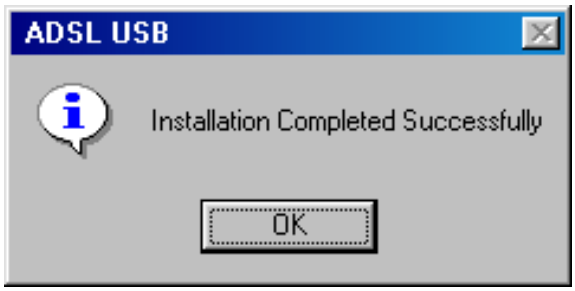


5. In the "InstallShield Wizard Complete" window, click “Next”. Your system will be restarted.



6. After your system has restarted, the "DSLMON Warning" appears. Complete the USB cable the computer-to-modem connection and click “OK”.

7. After the installation is finished, the "ADSL USB" window appears and informs you the installation process is now completed. Click OK.

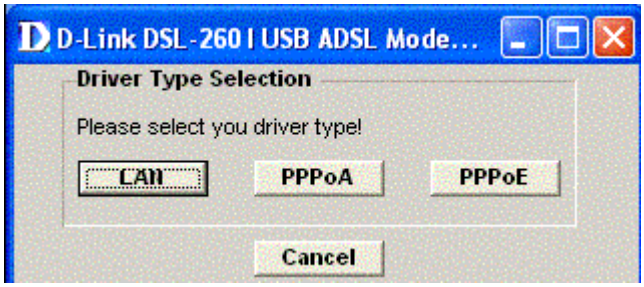


Windows XP (LAN Driver)

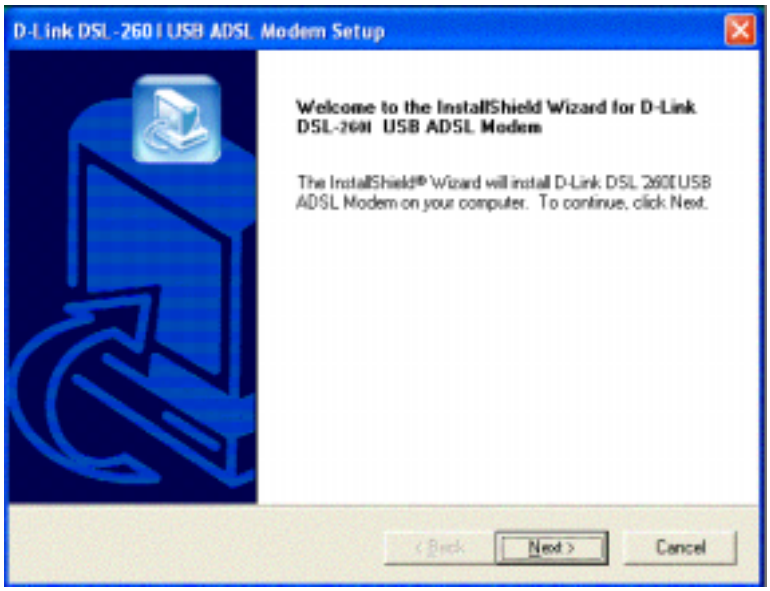
1. Insert the *DSL-260I* Installation CD into the CD-ROM drive. The system should detect the installation program and run the program automatically. If installation does not begin automatically after a few seconds, find the start.exe icon located on the CD and double-click this. To view the contents of the CD, open My Computer from the Start menu, 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.

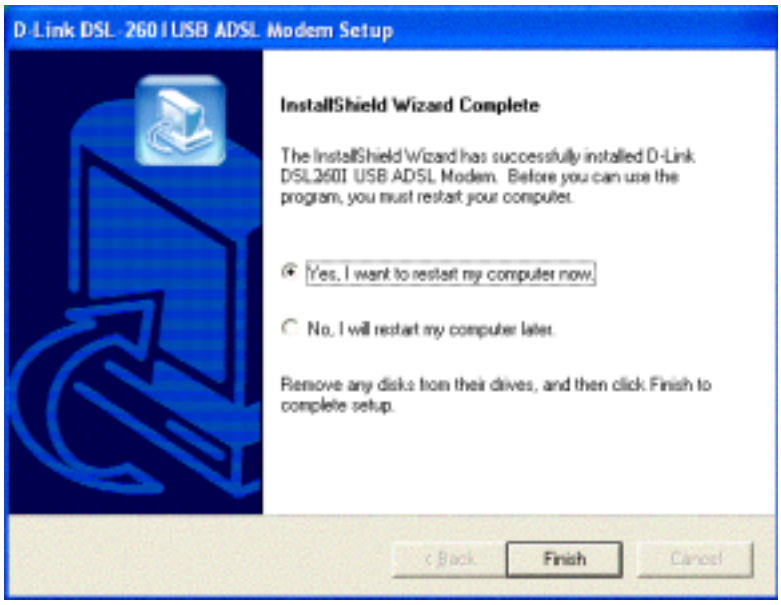
3. The "Driver Type Selection" window appears. Click the "LAN" button.



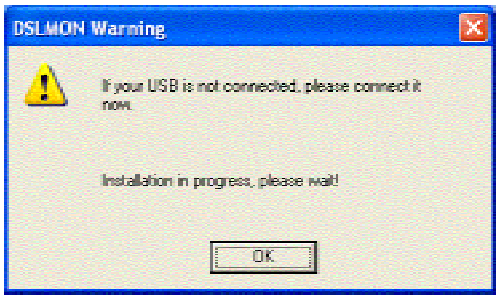
4. The Welcome window appears. Click "Next" to copy the driver files. If you have yet done so, exit all other programs before you install driver.



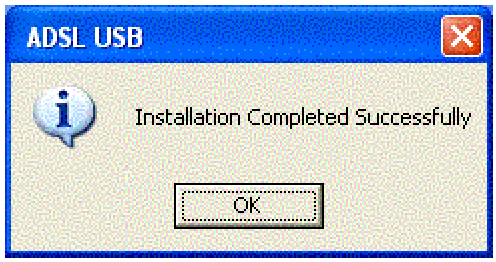
5. In the "InstallShield Wizard Complete" window, click “Next”. Your system will be restarted.



6. After your system has restarted, the "DSLMON Warning" appears. Complete the USB cable the computer-to-modem connection and click “OK”.



7. After the installation is finished, the "ADSL USB" window appears and informs you the installation process is now completed. Click OK.



Installing the PPPoA Driver

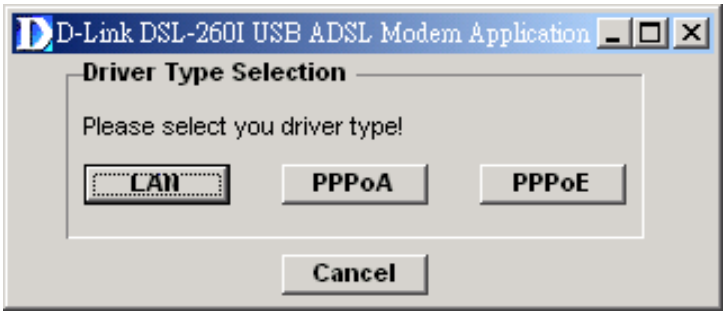
Before starting the PPPoA driver installation process, close all open windows and quit any application programs you are running. There are two installation procedures presented here, the first is for Windows 98, 98SE, ME, and 2000 operating systems. The second is for Windows XP. Follow the procedure for your system.

Windows 98, 98SE, ME, 2000 (PPPoA Driver)

1. Insert the *DSL-260I* 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 this. 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.

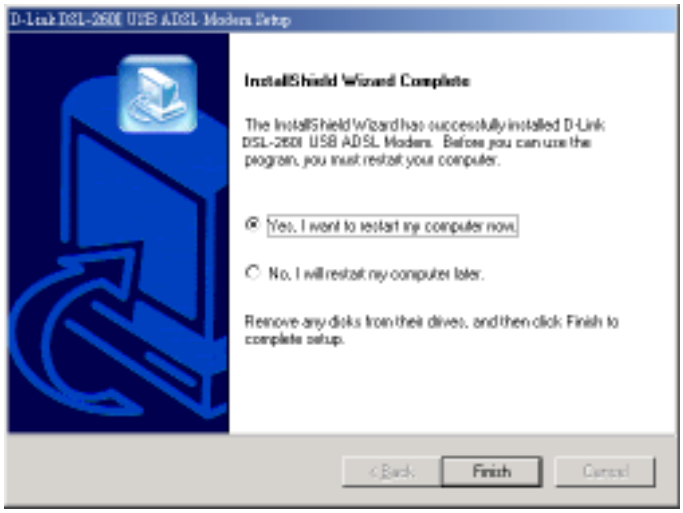
2. Click the "Driver Install" button.

3. The "Driver Type Selection" window appears. Click the "PPPoA" button.

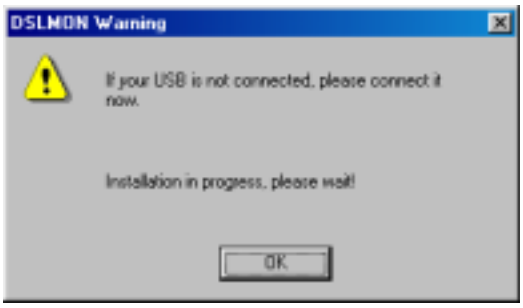


4. The Welcome window appears. Click "Next" to copy the driver files. If you have yet done so, exit all other programs before you install driver.

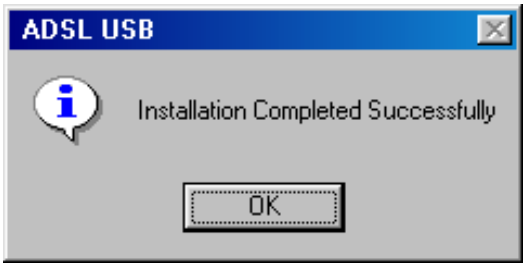
5. In the "InstallShield Wizard Complete" window, click “Next”. Your system will be restarted.



6. After your system has restarted, the "DSLMON Warning" appears. Complete the USB cable the computer-to-modem connection and click “OK”.



7. After the installation is finished, the "ADSL USB" window appears and informs you the installation process is now completed. Click OK. Windows 98, 98SE and ME operating systems will automatically restart. Windows 2000 does not require a restart.

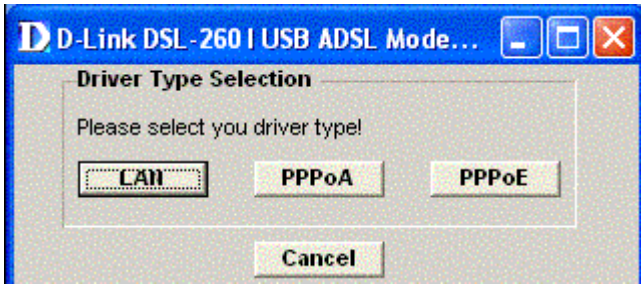


Windows XP (PPPoA Driver)

1. Insert the *DSL-260I* 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 this. To view the contents of the CD, open My Computer from the Start menu, 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.

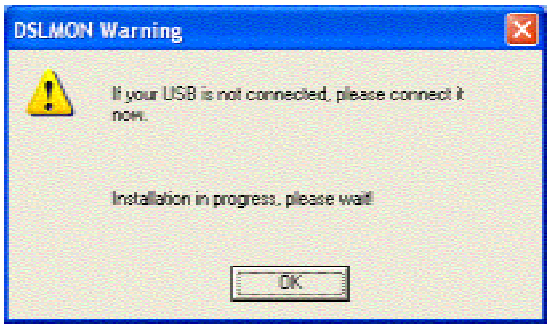
3. The "Driver Type Selection" window appears. Click the "LAN" button.



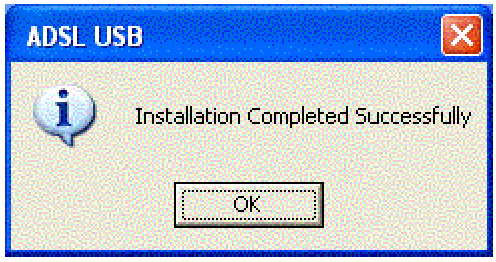
4. The Welcome window appears. Click "Next" to copy the driver files. If you have yet done so, exit all other programs before you install driver.

5. In the "InstallShield Wizard Complete" window, click "Next". Your system will be restarted.

6. After your system has restarted, the "DSLMON Warning" appears. Complete the USB cable the computer-to-modem connection and click "OK".



7. After the installation is finished, the "ADSL USB" window appears and informs you the installation process is now completed. Click OK.



Install PPPoE Driver

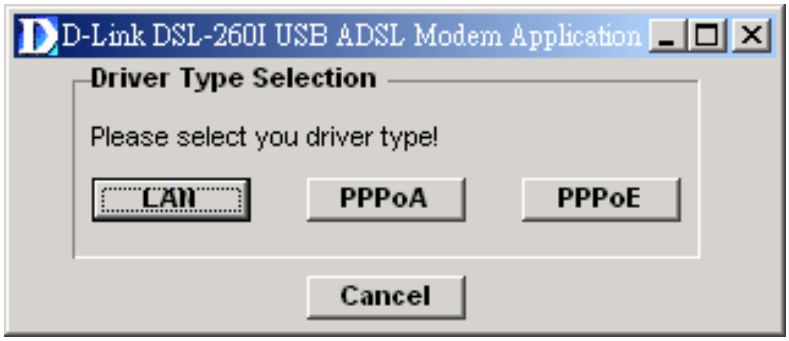
Before starting the PPPoE driver installation process, close all open windows and quit any application programs you are running. There are two installation procedures presented here; the first is for Windows 98, 98SE, ME, and 2000 operating systems. The second is for Windows XP. Follow the procedure for your system.

Windows 98, 98SE, ME, 2000 (PPPoE Driver)

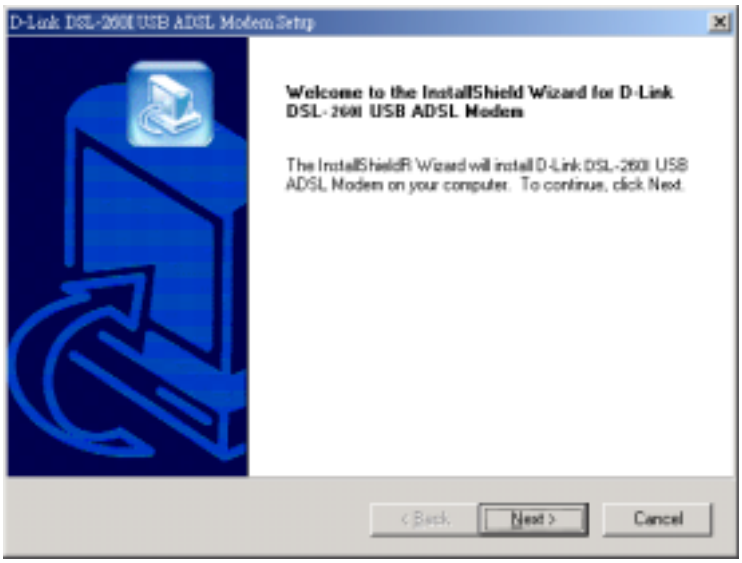
1. Insert the *DSL-260I* Installation CD into the CD-ROM drive. The system should detect the installation program and run the program automatically. If installation does not begin automatically after a few seconds, find the start.exe icon located on the CD and double-click this. To view the contents 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.

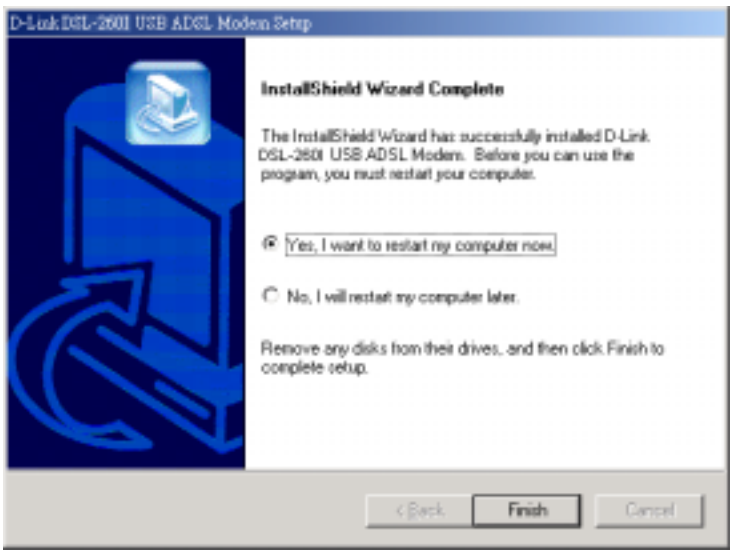
3. The "Driver Type Selection" window appears. Click the "PPPoE" button.



4. The Welcome window appears. Click "Next" to copy the driver files. If you have yet done so, exit all other programs before you install driver.

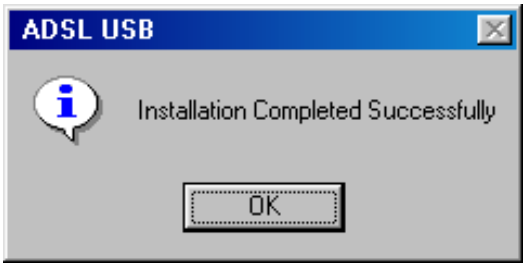


5. In the "InstallShield Wizard Complete" window, click “Next”. Your system will be restarted.



6. After your system has restarted, the "DSLMON Warning" appears. Complete the USB cable the computer-to-modem connection and click “OK”.

7. After the installation is finished, the "ADSL USB" window appears and informs you the installation process is now completed. Click OK.

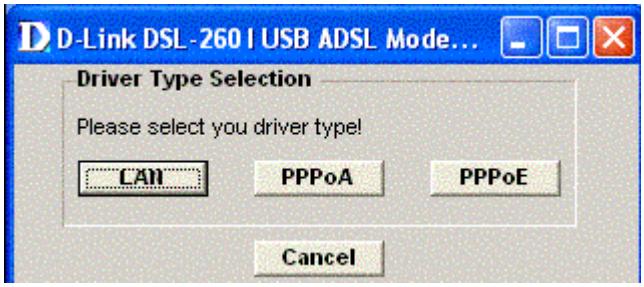


Windows XP (PPPoE Driver)

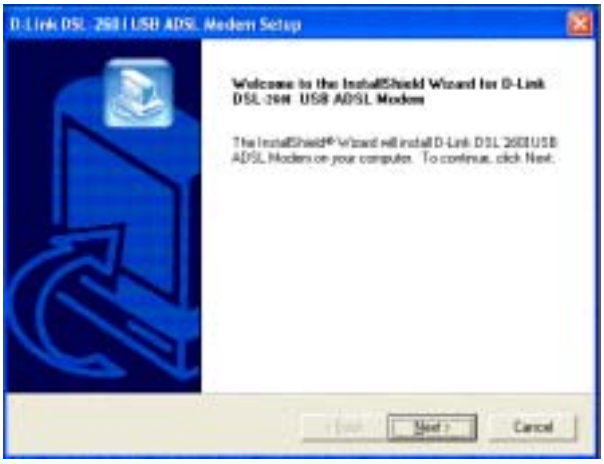
1. Insert the *DSL-260I* Installation CD into the CD-ROM drive. The system should detect the installation program and run the program automatically. If installation does not begin automatically after a few seconds, find the start.exe icon located on the CD and double-click this. To view the contents of the CD, open My Computer from the Start menu, 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.

3. The "Driver Type Selection" window appears. Click the "PPPoE" button.

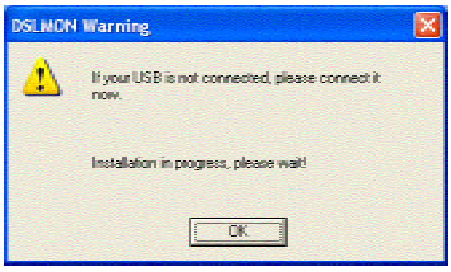


4. The Welcome window appears. Click "Next" to copy the driver files. If you have yet done so, exit all other programs before you install driver.

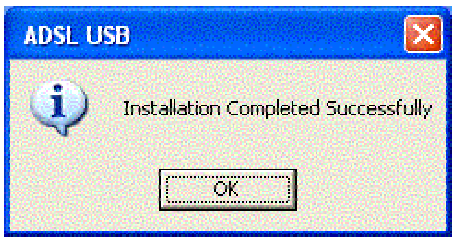


5. In the "InstallShield Wizard Complete" window, click "Next". Your system will be restarted.

6. After your system has restarted, the "DSLMON Warning" appears. Complete the USB cable the computer-to-modem connection and click "OK".



7. After the installation is finished, the "ADSL USB" window appears and informs you the installation process is now completed. Click OK.



4

CONNECTING TO THE INTERNET

Now that the driver software has been installed, you are ready to establish a connection to the Internet. The connection from your computer to the Internet is actually an indirect connection. You must first get connected to the computers that control the connection to the larger network or Internet. Usually, the ADSL service provider or ISP own the servers that control network access. Follow the instructions for the driver (PPPoE, PPPoA or LAN) you have installed and the operating system you use on your computer.

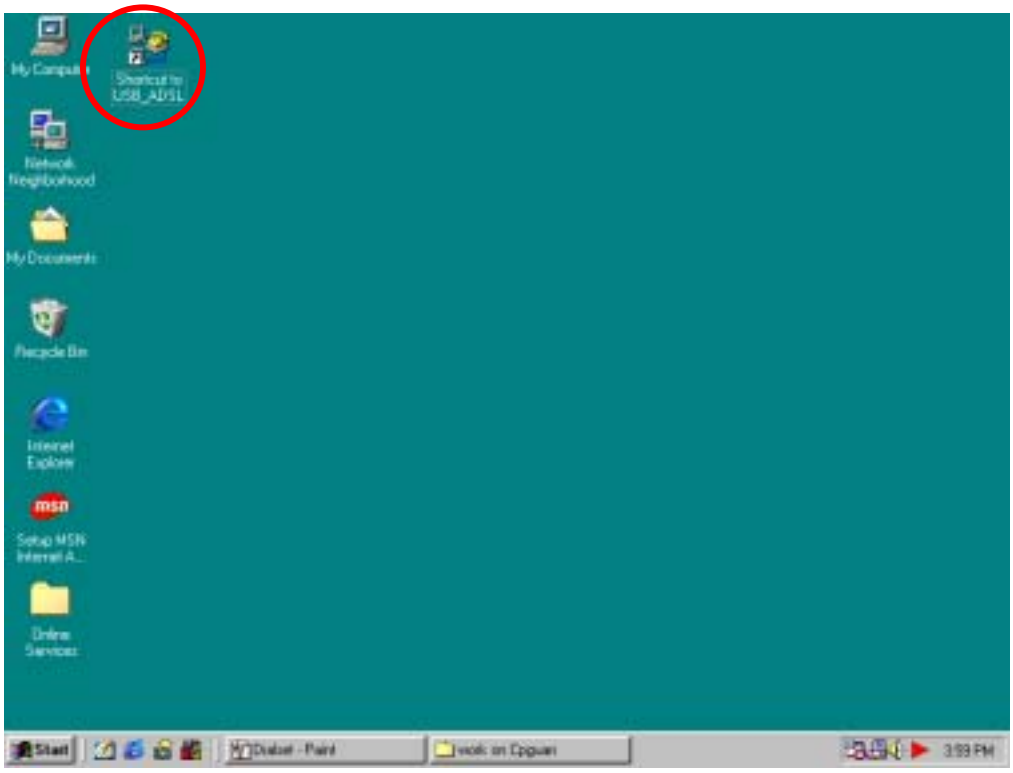
If you have installed the PPPoE or PPPoA driver, you are using PPP to connect to your network service provider. The procedure you follow will be familiar if you have ever installed a dial-up modem. The LAN driver requires additional PPP client software (usually provided by your ADSL service provider) to establish and manage the ADSL connection.

Connect with PPPoE and PPPoA Drivers

For PPP connections you simply double-click on the Modem icon and type in your network access user name and password, just as if you were using a conventional analog dial-up modem.

Windows 98, 98SE (PPPoA and PPPoE driver)

1. Double-click the icon "Shortcut to USB_ADSL" on the Desktop.

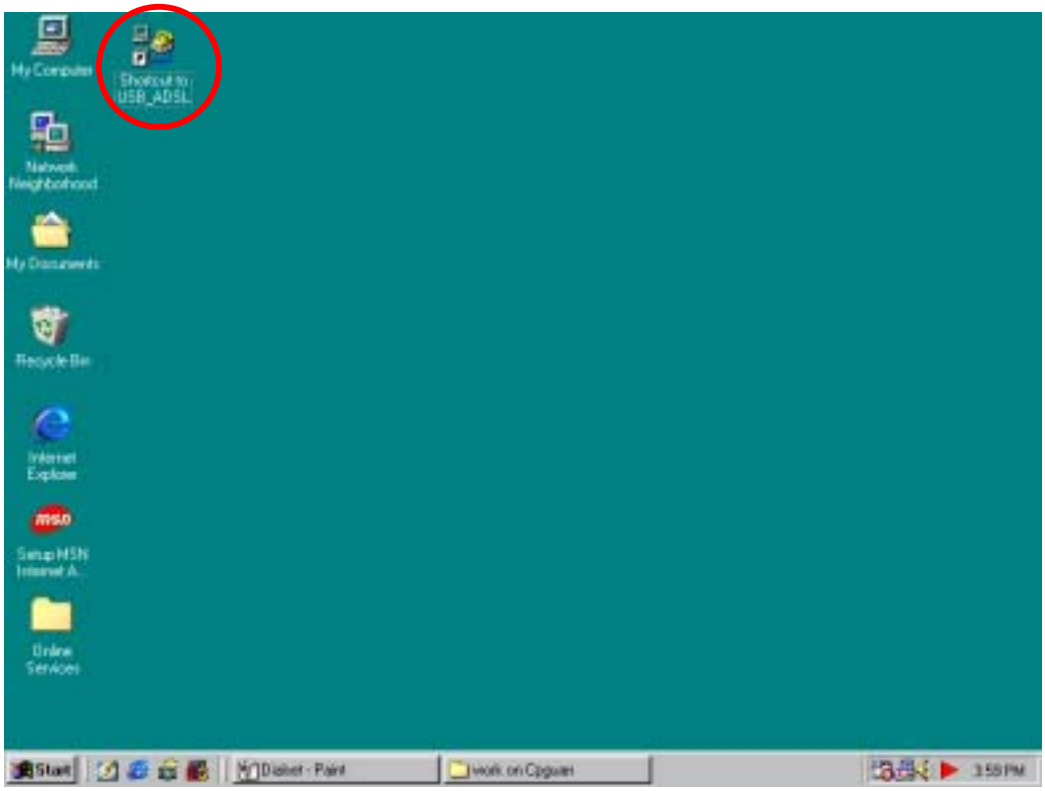


2. The "Connect to" dialog box appears. Type in the User name and Password given to you by your ADSL service provider or ISP. Computers on the ISP's network use this information to confirm the identity of your account.

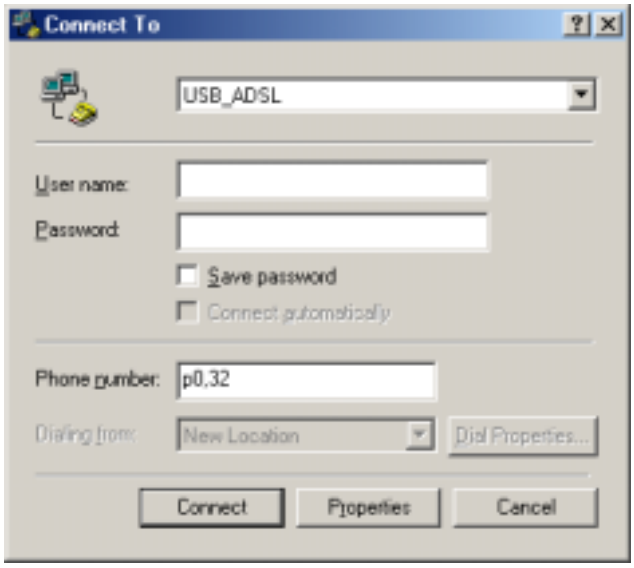
3. Once your account information is verified, the computers will complete the connection to the network. This process or "negotiation" can take a few seconds to complete. When the negotiation process is finished a "Connection Established" dialog box will appear to confirm that you have successfully connected to the network. You can close this dialog box and proceed to use the Internet.

Windows ME (PPPoA and PPPoE driver)

1. Double-click the icon "Shortcut to USB_ADSL" on the Desktop.



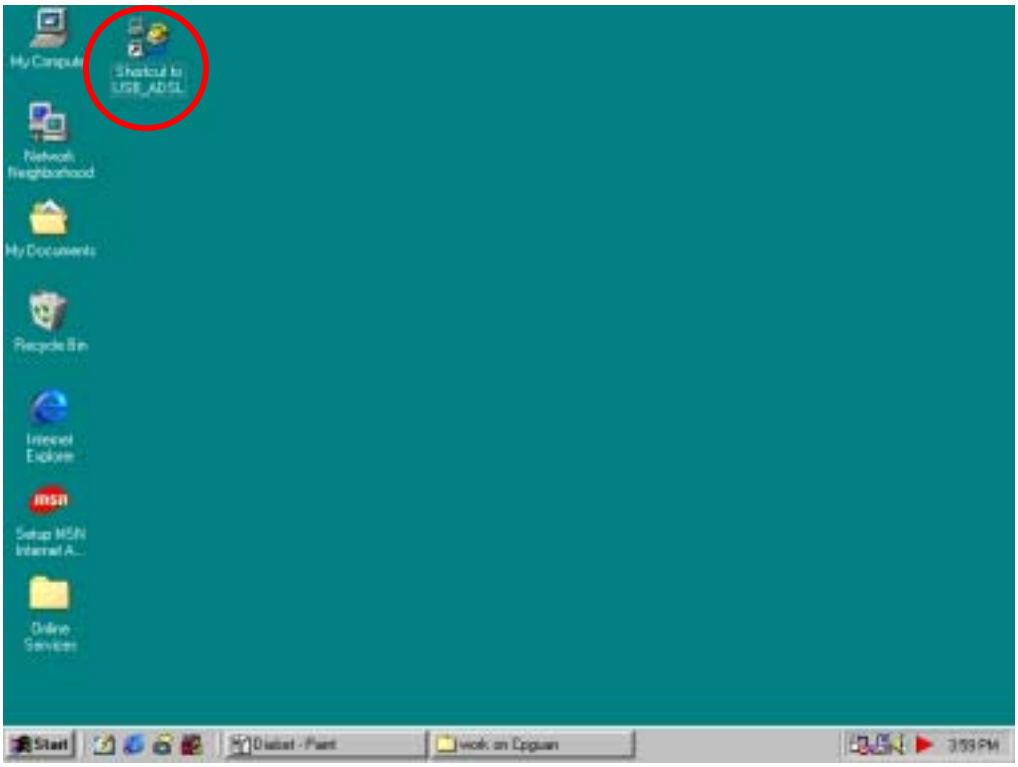
2. The "Connect to" dialog box appears. Type in the User name and Password given to you by your ADSL service provider or ISP. Computers on the ISP's network use this information to confirm the identity of your account.



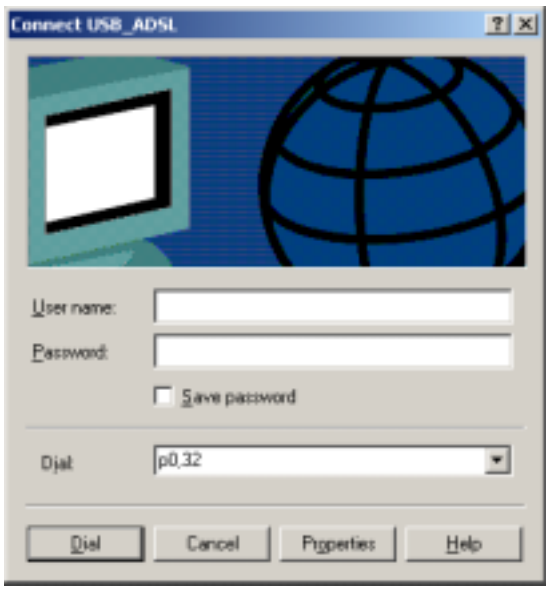
3. Once your account information is verified, the computers will complete the connection to the network. This process or "negotiation" can take a few seconds to complete. When the negotiation process is finished a "Connection Established" dialog box will appear to confirm that you have successfully connected to the network. You can close this dialog box and proceed to use the Internet.

Windows 2000 (PPPoA and PPPoE driver)

1. Double-click the icon "Shortcut to USB_ADSL" on the Desktop.



2. The "Connect to" dialog box appears. Type in the User name and Password given to you by your ADSL service provider or ISP. Computers on the ISP's network use this information to confirm the identity of your account.



3. Once your account information is verified, the computers will complete the connection to the network. This process or "negotiation" can take a few seconds to complete. When the negotiation process is finished a "Connection Established" dialog box will appear to confirm that you have successfully connected to the network. You can close this dialog box and proceed to use the Internet.

* If a dialog box appears titled "Network Protocol Connection Result", click the "Accept" to connect. If you want to avoid this step in the future you will need to disable NetBEUI or IPX/SPX protocols. To disable NetBEUI & IPX/SPX protocol on a Windows 2000 system follow these steps:

1. Double-click the shortcut " Shortcut to USB_ADSL " on the desktop.

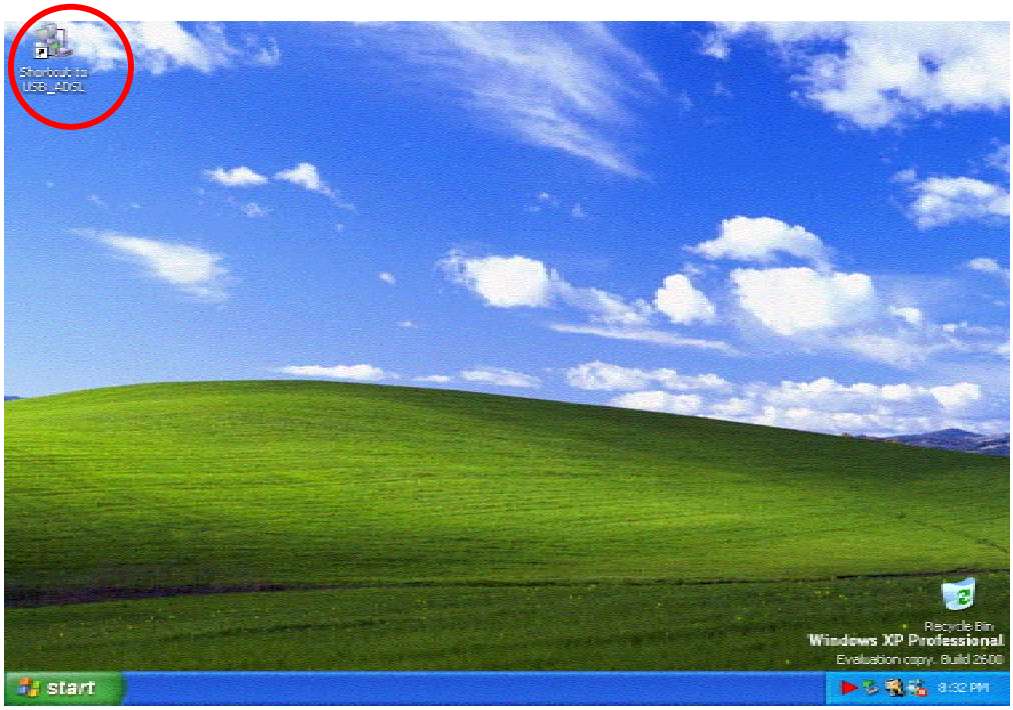
2. Click "Properties"

3. Choose "Networking" on the top.

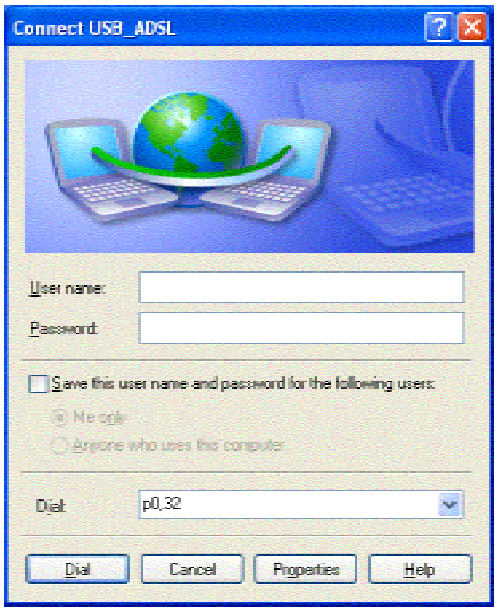
4. Click the option box "NetBEUI Protocol" & "NwLink IPX/SPX/NetBIOS Compatible Transport Protocol" so they are empty, that is, so there are no check marks in the boxes.

Windows XP (PPPoA and PPPoE driver)

1. Double-click the icon "Shortcut to USB_ADSL" on the Desktop.



2. The "Connect to" dialog box appears. Type in the User name and Password given to you by your ADSL service provider or ISP. Computers on the ISP's network use this information to confirm the identity of your account.



3. Once your account information is verified, the computers will complete the connection to the network. This process or "negotiation" can take a few seconds to complete. When the negotiation process is finished a "Connection Established" dialog box will appear to confirm that you have successfully connected to the network. You can close this dialog box and proceed to use the Internet.

* If a dialog box appears titled "Network Protocol Connection Result", click the "Accept" to connect. If you want to avoid this step in the future you will need to disable the IPX/SPX protocol. To disable NetBEUI & IPX/SPX protocol on a Windows XP system, follow these steps:

1. Double-click the shortcut " Shortcut to USB_ADSL " on the desktop.

2. Click "Properties"

3. Choose "Networking" on the top.

4. Click the option box "NwLink IPX/SPX/NetBIOS Compatible Transport Protocol" so that it is empty, that is, so there is not a check mark in the box.

Connect with LAN Driver

If your ADSL connection uses the RFC1483 protocol, TCP/IP settings must be configured in your system in order to connect to your service provider's network (and ultimately connect to the Internet).

Your ADSL service provider or ISP should give the following information to you:

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

Use the information to configure the Modem. Follow the instructions for your operating system.

IP Address Assignment

IP addresses are 32-bit numbers (in the form xxx.xxx.xxx.xxx) from 0.0.0.0 to 255.255.255.255 that uniquely identify every location on the Internet. In order to communicate with sites on the Internet, your PC must be assigned a unique IP address.

If your ADSL service provider or ISP uses the Dynamic Host Configuration Protocol (DHCP), your computer can be assigned an IP address automatically. Checking the **Obtain an IP address automatically** box will enable your PC to receive an IP address automatically from your service provider through DHCP. This is often referred to as a "dynamic" IP address because it can change over time.

If your ADSL service provider or ISP does not use DHCP, you must manually enter your PC's IP address. Your service provider supplies this address. Check the **Use the following IP address** box and enter the IP address of the DNS server in the form xxx.xxx.xxx.xxx (as an example, 172.19.10.91). This is often referred to as a "static" IP address because it will not change over time.

Subnet Mask

This is a bit mask that determines the extent of the subnet that the PC is on. It is used in combination with an IP address to define areas of the local network that are logically separated from the rest of the network (subnets). It is in the form *xxx.xxx.xxx.xxx*, where each *xxx* is a number (represented in decimal) between 0 and 255. The value should be 255.0.0.0 for a Class A network, 255.255.0.0 for a Class B network, and 255.255.255.0 for a Class C network, but custom subnet masks are allowed.

It is recommended that you accept the default Subnet Mask suggested by Windows that corresponds to the class

of IP address you entered above.

Gateway Address

This is the IP address of a network device where packets with a destination address outside the current subnet should be sent. This is usually the address of a router or a host acting as an IP gateway. If your network is not part of an intranet, or you do not want the Switch to be accessible outside your local network, you can leave this field unchanged. Sometimes called the **Default Gateway.**

DNS Server Address

The Domain Name System (DNS) was designed by the Internet Engineering Steering Group (IESG) to allow locations on the Internet to be identified by a name. A DNS server maintains a database of URLs (Internet location names) and their corresponding IP addresses. When you type a URL in the **Go To** field of your web browser, your PC will contact a DNS server to determine the corresponding IP address. To do this, your PC must know the DNS server's IP address.

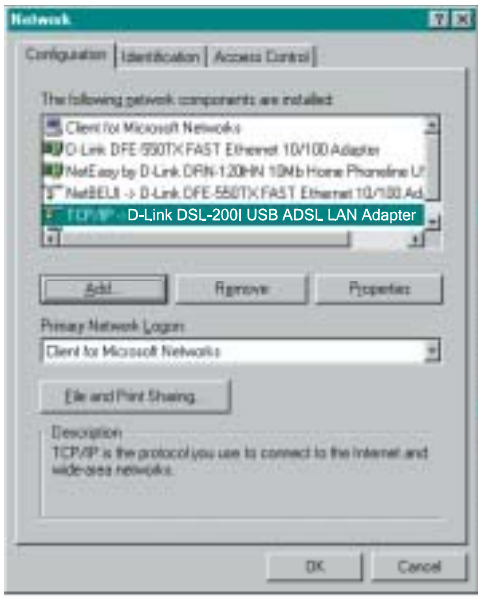
If your ADSL service provider or ISP uses the Dynamic Host Configuration Protocol (DHCP), your computer can automatically be assigned a DNS server IP address. Checking the **Obtain DNS server address automatically** box will enable your PC to receive the DNS server's IP address automatically through DHCP.

If your ADSL service provider or ISP does not use DHCP, you must manually enter the DNS server's IP address. Your service provider will give this address to you. Check the **Use the following DNS server address** box and enter the IP address of the DNS server in the form xxx.xxx.xxx.xxx (as an example, 172.19.10.91).

Configure Modem with LAN Driver for Windows 98, 98SE, ME

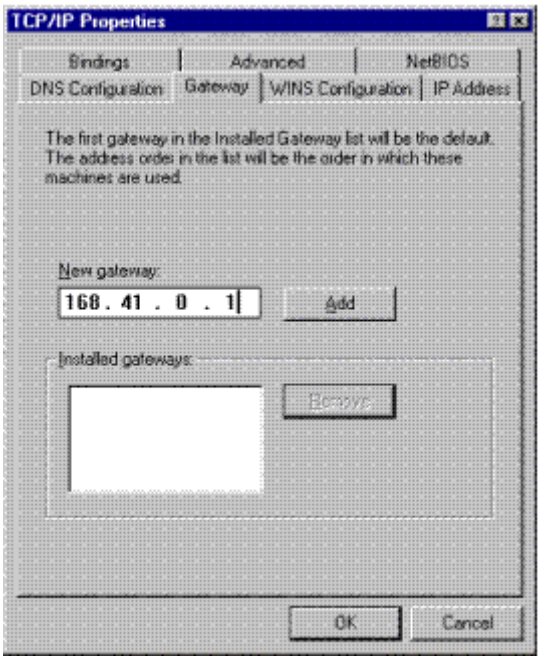
1. From the **Start menu**, select **Settings**, open **Control Panel**, and double-click on the **Network** icon.

2. The **Network** window appears. Select the **Configuration** tab, scroll down the installed network components list and click on **TCP/IP->USB ADSL LAN Adapter**.

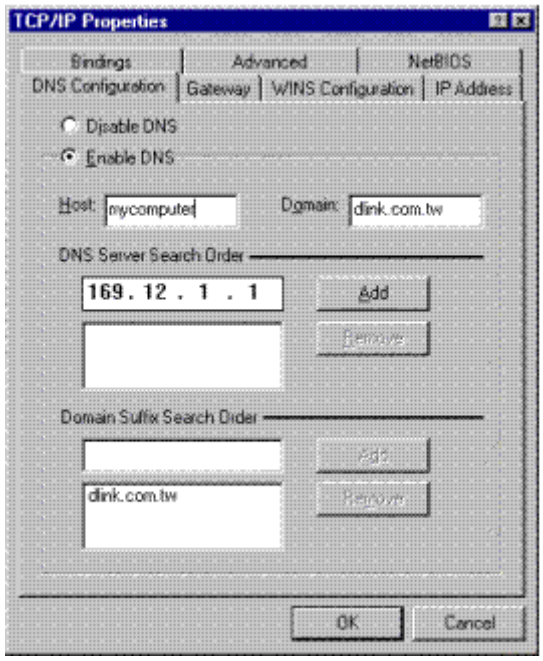


3. Click the **Properties** button.

4. The **TCP/IP Properties** window appears. 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 **Gateway** tab and enter the IP settings in the **New gateway** field. Click **Add**.



6. Select the **DNS Configuration** tab. Select the **Enable DNS** option.
7. Type in your host name in the **Host:** field.
8. Type in your domain name in the **Domain:** field.
9. Enter the DNS settings in the **DNS Server 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.
10. After all the TCP/IP information has been entered, click **OK**.
11. The **Network** window again appears, click **OK**.
12. The **System Settings Change** window appears. You need to restart your computer for the changes to go into effect. Click **Yes**.

Configure Modem with LAN Driver for Windows 2000

1. Double-click on the **My Computer** icon, 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 **USB ADSL LAN Adapter**.
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, then select **Use the following DNS server addresses:**, enter the DNS settings 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 Connections** window appears. **Close** this window to complete the connection.

Configure Modem with LAN Driver for Windows XP

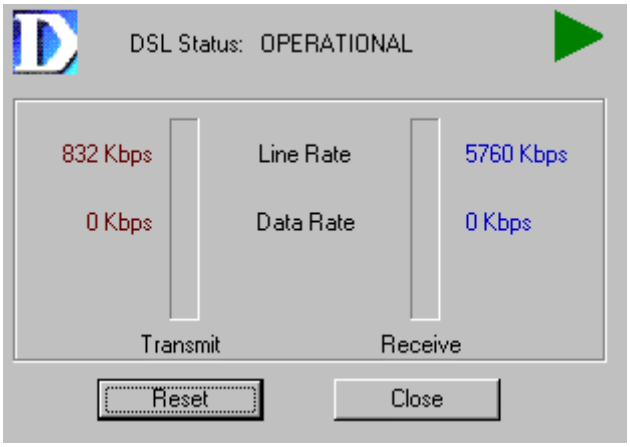
1. From the **Start menu**, select **Control Panel**, and then click on the **Pick a category, Network and Internet Connections**.
2. The **Network and Internet Connections** window appears. Click on the **or Pick a Control Panel icon, Network Connections.**
3. The **Network Connections** window appears. Right click on the **Local Area Connection** for the **USB ADSL LAN Adapter**, then click on the **Properties**.
4. The **Local Area Connection Properties** window appears. Select the **General** tab, then choose on the **This connection uses the following items:** list for the **Internet Protocol (TCP/IP)** and click the **Properties** button.
5. The **Internet Protocol (TCP/IP) Properties** 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, then select **Use the following DNS server addresses:**, enter the DNS settings given to you by your ISP or ADSL service provider. Click **OK**.
6. The **Local Area Connection Properties** window appears. Click **OK**.
7. The **Network Connections** 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 (usually at the bottom-right corner of screen - on the Task Bar). This will open the DSLMON utility to aid you in tracking the activity and status of your *DSL-260I* ADSL USB modem.

Clicking on the icon will bring up the following window:

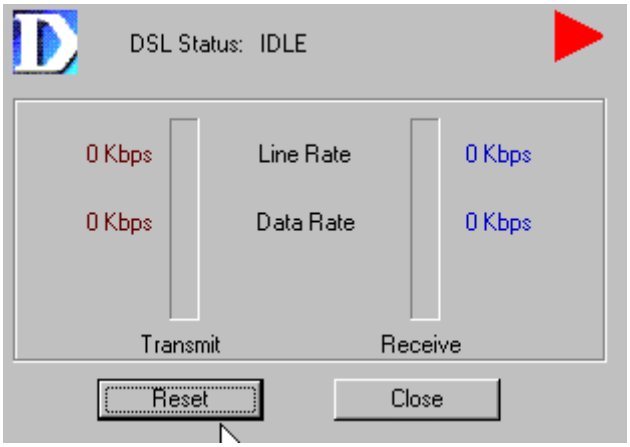


The bright green triangle to the right of "DSL Status" indicates a valid link. The word "OPERATIONAL" indicates that the ADSL link is valid and functioning.

In addition, the two vertical bars indicate the relative data rates for transmission (uploading) and reception (downloading).

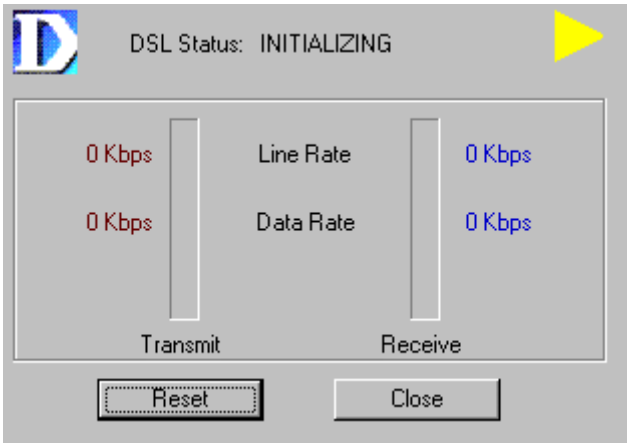
The icon in your System Tray is red when the ADSL link is idle (no activity).

A red triangle and the word "IDLE" also appears on the DSLMON utility. This indicates that there is no activity on the ADSL link or that the link is no longer valid (disconnected).



The icon in your System Tray is yellow while the ADSL link is initializing.

A yellow triangle and the word "INITIALIZING" also appears on the DSLMON utility. This indicates that your modem is in the process of establishing the ADSL link.



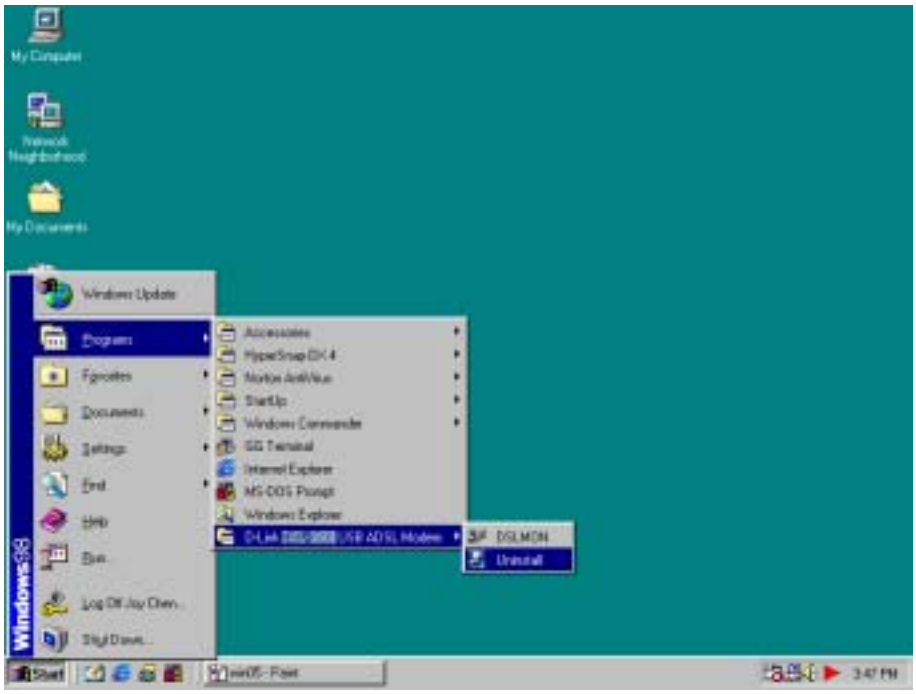
6

Uninstalling the Driver

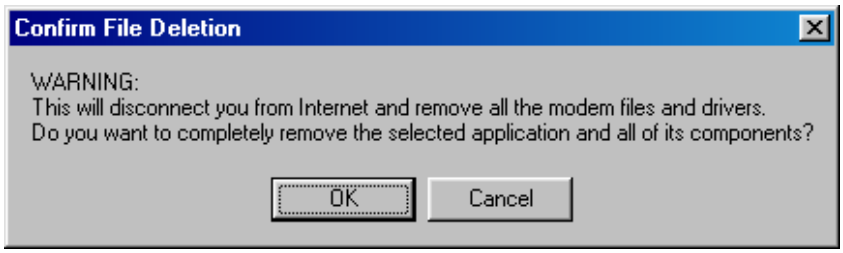
Drivers for the Modem may be uninstalled using the automatic uninstall feature. The Uninstall program is located in the folder **D-Link *DSL-260I* USB ADSL Modem**.

Uninstall for Windows 98, 98SE, ME, 2000

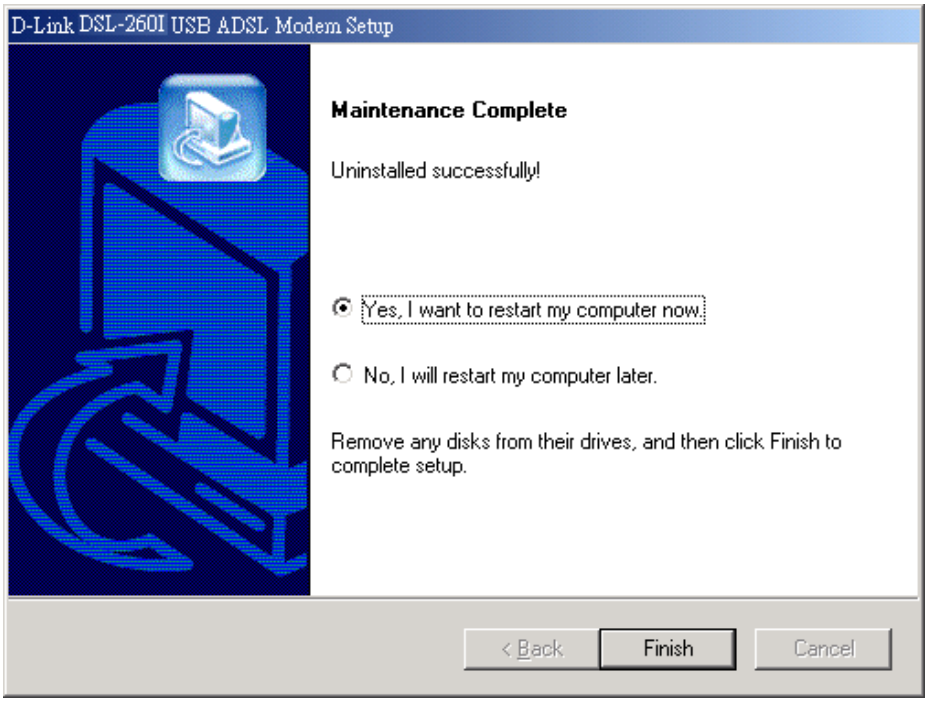
1. From the Start Menu go to **Programs→D-Link *DSL-260I* USB ADSL Modem→Uninstall**



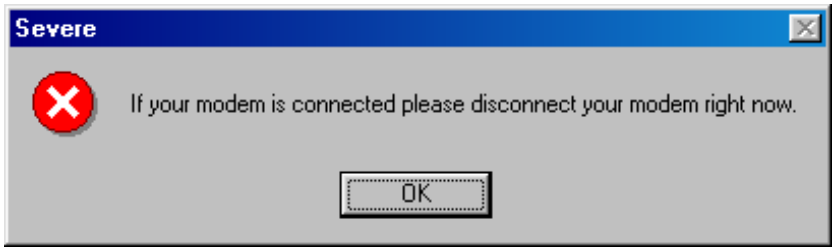
2. The "Confirm File Deletion" dialog box appears. Click **OK** to uninstall the Modem driver.



3. The "Maintenance Complete" window will appear, click **Finish** to restart your computer.



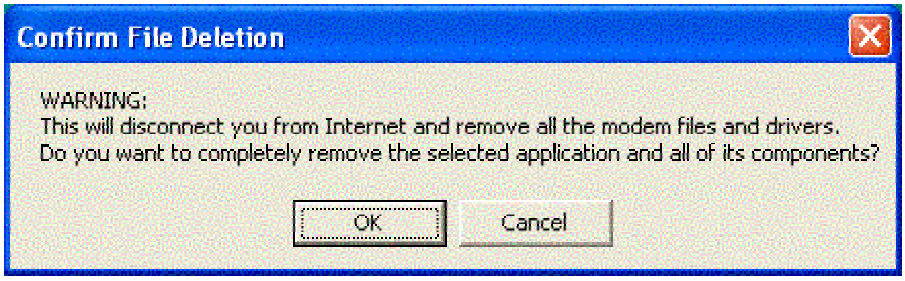
4. Then, the "Severe" warning dialog box appears. Disconnect the Modem to prevent the New Hardware Found wizard from starting when your computer reboots and click **OK**. Your system will be restarted.



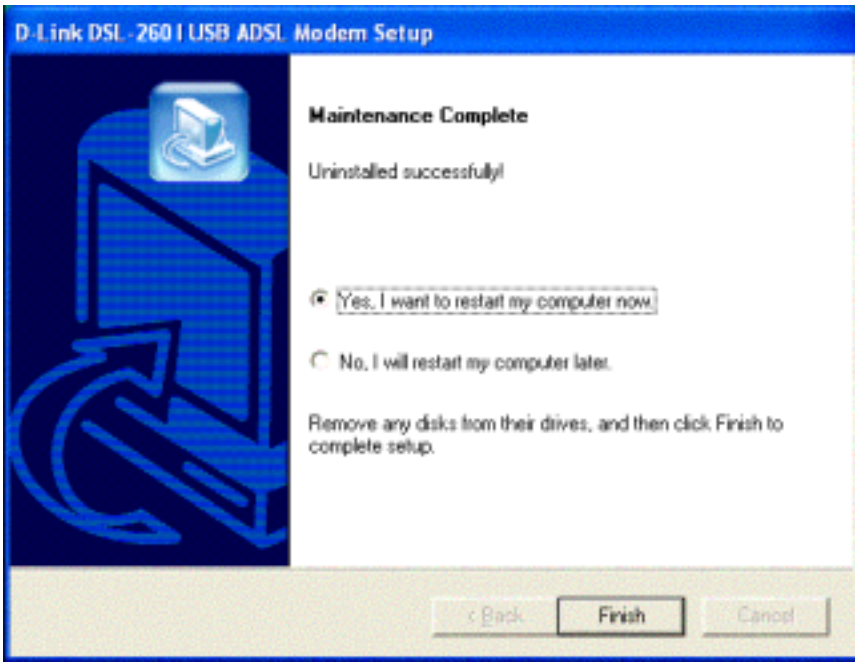
Uninstall for Windows XP

1. From the Start Menu go to **All Programs→D-Link *DSL-260I* USB ADSL Modem→Uninstall**

2. The "Confirm File Deletion" dialog box appears. Click **OK** to uninstall the Modem driver.



3. The "Maintenance Complete" window will appear, click **Finish** to restart your computer.



4. Then, the "Severe" warning dialog box appears. Disconnect the Modem to prevent the New Hardware Found wizard from starting when your computer reboots and click **OK**. Your system will be restarted.

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 Multiprotocol 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:	Microsoft Windows 98, Windows 98 Second Edition Windows 2000, Windows Millennium Edition, Windows XP
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:	2.5 watts (max.)
Operating Temperature:	0º to 40º C (32º to 104º F)
Storage Temperature:	-40º to 70º C (-40º to 158º F)
Humidity:	5% - 95% non-condensing
Dimensions:	139.5mm x 114.5mm x 27.2mm (5.49in x 4.51in x 1.07in)
Weight:	200gm (0.422lbs)
EMI:	FCC Class B, CE Class B
Safety:	CSA International

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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: www.dlink.com E-MAIL: tech@dlink.com & support@dlink.com

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_____

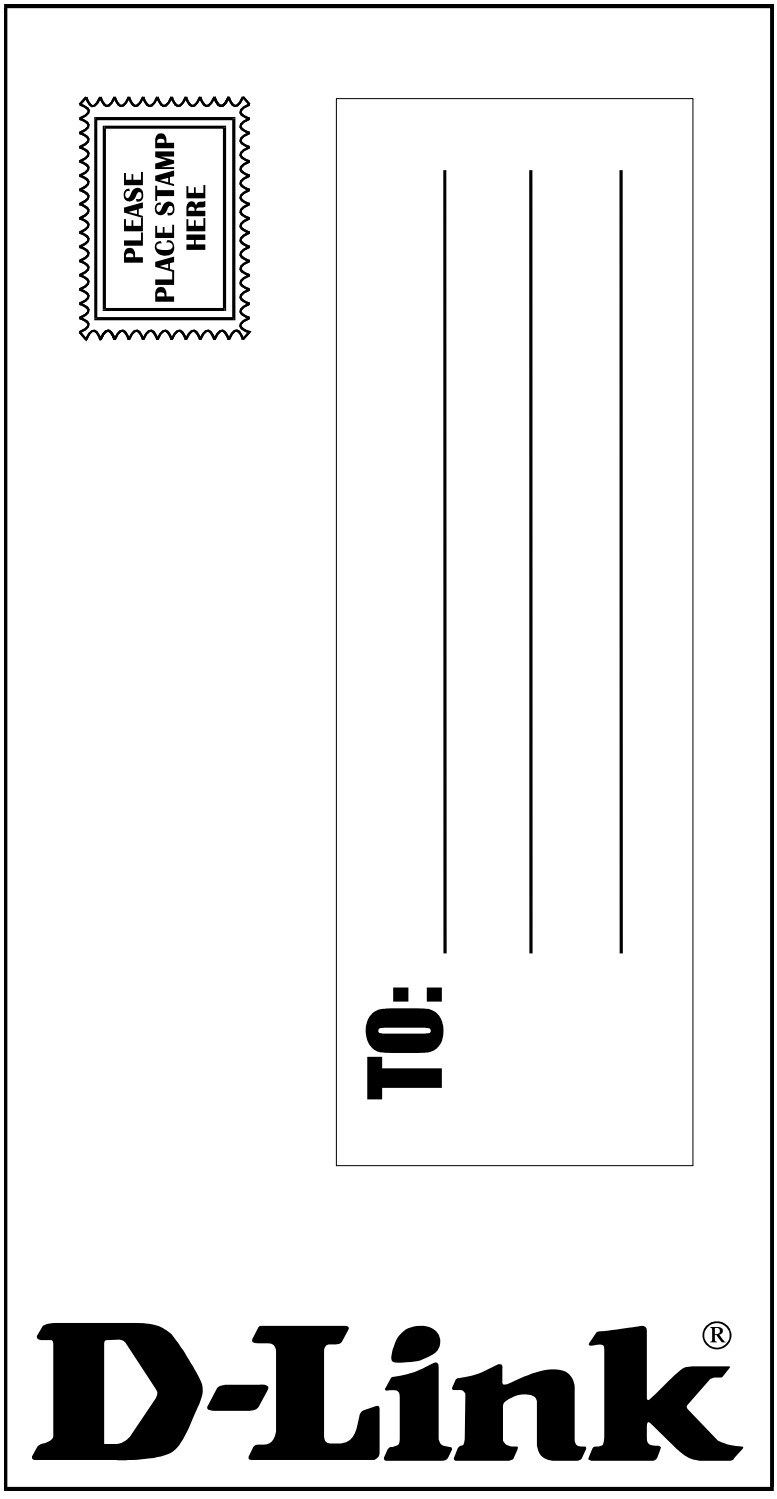
9. Would you recommend your D-Link product to a friend?

☐Yes ☐No ☐Don't know yet

10.Your comments on this product? _____

_____

_____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