

DSL-100D ADSL PCI Modem User's Guide

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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:

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About This Guide

Congratulations on your purchase of the ADSL PCI Modem Card for Windows[®] 95, 98, 2000 Me and NT 4.0. This internal modem card connects to a telephone line using a standard RJ-11 connector and follows all the latest PC industry guidelines, including Plug and Play.

Purpose

The purpose of this manual is to discuss the installation and use of your ADSL PCI Modem Card.

Before you Begin

This manual has all the information you need to install and configure the PCI Modem card and it will walk you through the steps. However, it is very important that you follow each step and gather the information you will need before you begin. This will make the installation smoother and easier. Be sure to read each instruction before you begin.

Introduction

This section describes the ADSL PCI modem card, its features, and system requirements.

Features

The ADSL PCI Modem Card is an internal PCI device designed for use with Windows 95, 98, 2000, Me and NT 4.0. This modem card connects to an ADSL/telephone line using a standard RJ-11 connector and follows all the latest PC industry guidelines, including Plug 'n Play. For added convenience, an additional RJ-11 receptacle provides an outlet for a standard telephone or fax machine. To insure interoperability with service provider DSL systems your ADSL modem card supports DMT (Discrete Multi-Tone) modulation.

Performance features:

- Remote bridging with RFC 1483 encapsulation, both LLC-SNAP and VC multiplexing options
- Classical IP over ATM per RFC 1577
- PPP (Point-to-Point Protocol) over ATM per RFC 2364
- Full LCP: NBCP, IPCP, and IPXCP
- Authentication: PAP, CHAP, SPAP, and Microsoft(r) password encryption extensions
- TAPI style interface
- Van Jacobsen IP header compression
- Software frame compression LED indicators:
 - Link indicates a valid ADSL connection
 - Data indicates data is currently being transferred via the ADSL connection

System Requirements

D-Link recommends that your PC system meet the following minimum requirements to be able to use the ADSL PCI Modem Card:

- An IBM PC or compatible computer with a Pentium 100Mhz or faster processor
- 30 megabytes of free hard disk space
- 32 megabytes or more of main memory (RAM)
- A 8x or faster CD-ROM drive
- Microsoft Windows 95, 95 OSR2, 98, 98 second edition, 2000, Windows Millennium Edition or NT 4.x (Service Pack 3 or above)

Operating Systems:

- Windows 95, 95 OSR2
- Windows 98, 98 second edition
- Windows 2000
- Windows Me
- Windows NT 4.0

NOTE: You will need the original Windows operating system installation CD-ROM to complete the installation.

The installation procedure varies according to the operating system you are using. It is critical that you use the correct installation procedure for your operating system.

Gather Information

To make connecting and configuring your modem as easy and straightforward as possible, gather the information listed on the form that follows. Fill out the appropriate sections of the form for your operating system and ISP. Refer to the information during the installation and store the form in case you need to update the information at a later date.

If you are using Windows 95, you must upgrade your Dial-Up Networking (DUN) application to version 1.3 or above. Open the file "MSDUN13.EXE" located on the Driver CD. The Microsoft DUN is also available for download from Microsoft at <u>www.microsoft.com</u>.

Determine Your Operating System

You must use the correct installation procedure for your operating system. If you are not sure exactly which operating system you are using, follow the instructions and write down the information on the form provided.

Follow these steps to determine your operating system:

- 1. Go to the desktop. Right click on My Computer and select Properties.
- 2. Click on the General tab. The version number of your operating system is displayed. Refer to the table for more detailed information.

SYSTEM DESCRIPTION	VERSION	RELEASE NAME
Win 95A	4.00.950	Windows 95
Win 95B	4.00.950 B	Windows 95 OSR2
Win 98	4.10.1998	Windows 98
Win 98SE	4.10.2222 A	Windows 98 2 nd Edition
Win 2000	5.00.2195	Windows 2000
Win Me	4.90.3000	Windows Millennium Edition
Win NT	4.00.1381	Windows NT 4.0

Internet Service Protocol

Your Internet Service Provider (ISP) uses one of the protocols listed below. Look over the information provided by your ISP or call their technical support if you are not sure which protocol they are using.

- RFC 2364 Point-to-Point Protocol over ATM
- RFC 1483 Multi-protocol Encapsulation over ATM, a.k.a. "Bridged Ethernet"
- RFC 1577 Classical Internet Protocol over ATM

Connection Address and Configuration

You need to know the connection address and configuration information for your ISP.

Configuration Form

Before beginning the installation, photocopy or print this page and fill out the form provided. Refer to this form when you reach the Service Options panel and enter the proper configurations.

	ADSL COMMUNICATION SETTINGS:
Protocol:	RFC 1483 Multi-protocol Encapsulation over ATM
	RFC 2364 Point-to-Point Protocol over ATM
	RFC 1577 Classical Internet Protocol over ATM
VPI value:	
VCI value:	
Framing:	LLC/SNAP
	VC MUX
ADSL Mod	e: ANSI T1.413 Issue 2
	ITU G.992.2 Annex A (G.lite)
	ITU G.992.1 Annex A (G.dmt)

NETWORK CONFIGURATION FOR RFC 1483 (MULTI-PROTOCOL ENCAPSULATION OVER ATM) AND RFC 1577 (CLASSICAL IP OVER ATM):
IP Address:
Subnet Mask:
Gateway:
DNS Host Name:
DNS Domain:
DNS Server:

ACCOUNT INFORMATION FOR RFC 2364 POINT-TO-POINT PROTOCOL OVER ATM

User Name:

Password:



Hardware Installation

The card must be installed on the computer's mainboard. Since this is an electrical device, safety is important. First, properly shutdown the computer and unplug the computer's power cord. Touch an unpainted screw on the back of the power supply with the tip of your screwdriver to discharge any static electricity and prevent possible damage to the card and computer components. Open the computer's case.

Insert the card into an open PCI slot. Insert the card straight in and gently push straight down until it seats firmly and has good connection. Screw the bracket on the back of the card to the case so the card is firmly held in place.

Put the case back on the computer and plug the power cord back in. The physical installation of the card is now complete.



Figure 1: Insert the into the PCI slot.



Software Installation and Configuration

Windows automatically detects new hardware when it is added to the computer. The Add New Hardware Wizard appears to guide you through the Software Installation.

In order for the Modem to work you must configure it properly. The following sections show you the steps. You must enter the proper configurations for the DSLAM. You will enter one of the following:

- VPI
- VCI
- Framing Method
- ADSL Mode

The Digital Subscriber Line Access Multiplexer (DSLAM) is a machine at the phone company's central office that links many DSL connections to a single high speed Internet connection. Please refer to your DSL provider's documentation for information on the settings you should use. If you have questions about these settings, contact your DSL provider. Your DSL provider can tell you the specific configurations that you need.

Install Software Driver

For Windows 95, 98/98SE, 2000 and ME users, the device will be detected when you restart the PC. The Plug-and-Play installation will walk you through the entire process. Follow the installation steps in this guide for the operating system you are using. Windows NT 4.0 does not support the Plug-and-Play feature but you can use the step-by-step instructions in this installation guide.

The drivers for the device are specific to the Windows operating system with which they are used. The following table lists the names of the driver folders each operating system and protocol.

WINDOWS OS	RFC 1483 (MPoA)	RFC 1577 (IPoA)	RFC 2364 (PPPoA)
Win 95/95OSR2	1483W95	1577W95	2364W95
Win 98/98SE	1483W98	1577W98	2364W98
Win NT 4.0	1483NT4	1577NT4	2364NT4
Win 2000	1483W2K	1577W2K	2364W2K
Win Me	1483WME	1577WME	2364WME

Follow the instructions appropriate to your system after you have installed the PCI Modem and restarted the PC.

Windows 98/98SE Driver Installation

1. The **Add New Hardware Wizard** window automatically appears and indicates that the new PCI Network Controller (PCI Modem) has been found. Click **Next**.

Add New Hardware Wiz	ard
	This wizard searches for new drivers for: PCI Network Controller A device driver is a software program that makes a hardware device work.
	Kext Cancel

2. Still in the **Add New Hardware** window, you will be asked 'What do you want Windows to do?' Select 'Search for the best driver for your device,' then click **Next**.

Add New Hardware Wiza	ard
	What do you want Windows to do? Search for the best driver for your device. [Recommended]. Display a list of all the drivers in a specific location, so you can select the driver you want.
	< Back Next > Cancel

- 3. Insert the driver CD.
- 4. Choose "Specify a location" and click **Browse**.



5. Find the folder 1483w98, 1577w98, or 2364w98 (according to the protocol used by your ISP) on the CD-ROM drive and click **OK**.

Browse for Folder	? ×
Select the folder that contains driver information (.INF fil this device.	e) for
1483wMe	
1577w2K	
1577w95	
1577w98	
1577wMe	
2364nt4	
2364w2K	
2364w98	
2364wMe	-1
Driver	
OK Can	cel

6. Again the **Add New Hardware Wizard** window appears indicating the location of the driver. Click **Next** to install the driver.



7. After the driver has finished installing, click Finish.



8. You must restart the computer to finish the installation. You can do that now if you wish.



9. If you install the RFC2364 (PPPoA) driver, after you restart, the **Location Information** window appears automatically. Choose the country and enter the area code where you are located. Click **Close** when you are finished. You next need to configure the device. Proceed to the section on Configuration.

Location Information	
	Please provide information about your current location so that your calls can be dialed correctly. What country/region are you in now? United States of America What area (or city) ode are you in now? What area (or city) ode are you in now? If you dial a number to access an outside line, what is it? If pone dialing O Pulse dialing
	Close

Windows 95 Driver Installation

If you want to install the RFC2364 (PPPoA) driver, you must upgrade the Dial-Up Networking Application. The self-executing file is located on the Driver CD. The file name is 'MSDUN13.EXE'. Double-click on this file to update Dial-up Networking. You will be prompted to restart your computer after running the application.

1. The **Update Device Driver Wizard** prompts you to begin the installation of the PCI Network Controller (PCI Modem). Insert the driver CD and click **Next**.



2. You will need to search for the driver. Click **Other Locations...** to continue.



3. In the **Select Other Location** window, click **Browse** to search for the driver on your CD-ROM drive.



4. Find the folder 1483w95, 1577w95, or 2364w95 (according to the protocol used by your ISP) on the CD-ROM drive and click **OK**.

Browse for Folder	? ×
Select the folder that contains driver information for this device.	
- 🗀 1483wMe	
- 🔁 1577w95	
2364w2K	
 2364w95	
2364w98	
2364wMe	
🔤 🖂 🖂 Control Panel	
Printers	<u> </u>
OK Can	cel

5. The driver is now ready to be installed. Click **Finish** to install it.



6. You must restart the computer to finish the installation. You can do that now if you wish. After you have restarted, you will next need to configure the device. Proceed to the section on Configuration.

Installat	ion Finishe	ed 🛛 🔀	1
٩	Please ret Click "Yes	boot system to finish. s'' to restart system.	
	Yes	<u>N</u> o	

Windows 2000 Driver Installation

1. The Found New Hardware Wizard window automatically appears. Click Next.

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for a hardware device.
	< Back. Next > Cancel

2. The **Found New Hardware Wizard** explains that it can install the driver for the Network Controller (PCI Modem). Select "Search for a suitable driver..." and click **Next** to proceed.



3. You will be asked where you want the computer to search for the driver. Select the "Specify a location..." option. Insert the Driver CD and click **Next**.

Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back Next > Ne

4. Click **Browse** to search the CD for the driver folder.



5. Find the folder 1483w2k, 1577w2k, or 2364w2k (according to the protocol used by your ISP) and double-click on it to open it. Or highlight it and click **Open**.

Locate File					? ×
Look jn:	🔲 Local Disk (G:)		•	🗢 🗈 💣 🎟	-
History Desktop My Documents My Computer	 1483NT4 1483w2K 1483w95 1483w98 1483wMe 1577NT4 1577w2K 1577w95 1577w98 1577wMe 2364NT4 	2364w2K 2364w99 2364w98 2364wMe			
	, File <u>n</u> ame:	NETAMGM.INF		•	<u>O</u> pen
My Network P	Files of type:	Setup Information (*.inf)		Y	Cancel

6. Click **Open** to proceed to the next window.

Locate File				? ×
Look jn:	🔁 2364w2K	÷	• 📑 🖆	
History Desktop	NETAMGM			
My Documents				
My Network P	l File <u>n</u> ame: Files of <u>t</u> ype:	NETAMGM.INF Setup Information (*.inf)	▼ <u>O</u> per	- - - -

7. The driver folder location will now appear in the Found New Hardware Wizard window. Click **OK**.

Found New	w Hardware Wizard	×
2	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK Cancel
	Copy manufacturer's files from: G:\2364w2K	Browse

8. The driver is now ready to be installed. Check to be sure the driver file path is correct and click **Next**.



9. A warning appears telling you the Microsoft digital signature has not been found. D-Link has thoroughly tested the driver for Windows 2000. Click **Yes** to continue.



10. Windows has completed the driver installation. Click Finish and proceed to the Configuration section of this guide.



Windows ME Driver Installation

1. The **Add New Hardware Wizard** window automatically appears and indicates that the new PCI Network Controller (PCI Modem) has been found. Click **Next**. Insert the driver CD into the CD-ROM drive.



2. Still in the **Add New Hardware** window, select "Search for the best driver for the device option", then choose "Specify a location:" and click **Browse**.



3. Find the folder 1483wMe, 1577wMe, or 2364wMe (according to the protocol used by your ISP) and highlight it. Click **OK**.

Browse for Folder	? ×
Select the folder that contains driver information (.INF file this device.	e) for
- 1483w98	
- 1483wMe	
- 🔁 1577w95	
2364w2K	
2364w95	
2364w98	
📔 🗄 🛱 💭 Driver	<u> </u>
OK Can	cel

4. The location of the driver is now listed. Click **Next**.



5. Again the **Add New Hardware Wizard** window appears indicating the location of the driver. Click **Next** to install the driver.



6. After the driver has finished installing, click Finish.

Add New Hardware Wiz	ard
	D-Link DSL-100D ADSL Modem
	Windows has finished installing the new hardware device.
*	

7. You must restart the computer to finish the installation. You can do that now if you wish.



8. If you install the RFC2364 (PPPoA) driver, after you restart the **Location Information** window appears automatically. Choose the country and enter the area code where you are located. Click Close when you are finished. You next need to configure the device. Proceed to the section on Configuration.

Location Information	
	Please provide information about your current location so that your calls can be dialed correctly. What country/region are you in now? United States of America What area (or city) gode are you in now? If you dial a number to access an gutside line, what is it? The phone system at this location uses: (• one dialing Pulse dialing
	Close

Windows NT 4.0 Driver Installation

- 1. From the **Start** menu, go to **Settings** and open the **Control Panel** folder.
- 2. Double-click the **Network** icon.
- 3. Select the Adapters tab. Click Add to add the new hardware.

Network	? ×
Identification Services Protocols Adapters Bindings	1
Network Adapters:	
■¥[1] D-Link DFE-550TX FAST Ethernet 10/100 Adapte	et
Add <u>B</u> emove <u>Properties</u> Item Notes: D-Link DFE-550TX FAST Ethernet 10/100 Adapter	pdate
OK	Cancel

4. Click the **Have Disk** button to search for the driver.



5. Insert the driver CD and click **OK**. Assuming your CD-ROM drive is labeled the D drive you would type **D:\1483NT4**, **D:\1577NT4** or **D:\2364NT4** (according to the protocol used by your ISP) and click **OK**.

Insert Dis	:k	×
F	Insert disk with software provided by the software or hardware manufacturer. If the files can be found at a different location, for example on another drive type a new path to the files below.	Cancel
	D:\2364NT4	

6. The **Select OEM Option** window appears. The DSL-100D ADSL Modem will be listed if you typed in the correct path in the previous window, click **OK**.

Select OEM Option	\times
Choose a software supported by this hardware manufacturer's disk.	
D-Link DSL-100D ADSL Modem	
OK Cancel <u>H</u> elp	

7. The **Setup Message** window tells you that Remote Access Services will be installed. Click **OK**.



8. Replace the driver CD with the NT 4.0 CD. Type in the directory name and click **Continue**. For example, if your CD-ROM drive is labeled as the D drive, type 'D:\1386'.



9. If you install the RFC2364 (PPPoA) driver, the **Add RAS Device** window will appear. The RAS Capable Device listed will be "ISDN1 – DSLHwana'. Click OK.

Add RAS Device	×
RAS Capable <u>D</u> evices:	OK N
ISDN1 - DSLHwana 💌	Cancel
	<u>H</u> elp
	Install <u>M</u> odem
	Install X25 <u>P</u> ad

10. The Remote Access Setup window confirms your selection. Click Configure.

Remote Ac	cess Setup		×
<u>P</u> ort	Device	Туре	
ISDN1	DSLHwana	ISDN	Continue
			Cancel
			<u>N</u> etwork
			<u>H</u> elp
, <u>A</u> dd	<u>R</u> emove	ifigure] L	

11. In the Configure Port Usage window, select 'Dial out only' and click OK.



12. You are again asked to confirm the selection. Click Continue.

Remote	Access Setup		×
<u>P</u> ort	Device	Туре	
ISDN1	DSLHwana	ISDN	Continue Cancel <u>N</u> etwork <u>H</u> elp
<u>A</u> d	d <u>R</u> emove	Configure	

13. Finally the **Network** window again appears. You will see the PCI Modem has been added to the list of network adapters. Click **Close**.

Identification Services Protocols Adapters Bindings Network Adapters: Imp [1] D-Link DFE-550TX FAST Ethemet 10/100 Adapter Imp [2] D-Link DSL-100D ADSL Modem Add Remove Properties Update Item Notes: D-Link DSL-100D ADSL Modem	etwork			?
Network Adapters:	Identification Ser	vices Protocols	Adapters Bin	dings
Image: Properties and the properties an	Network Adapter	s:		
Add <u>Remove</u> <u>Properties Update</u> Item Notes: D-Link DSL-100D ADSL Modem	■ [1] D-Link DFE-550TX FAST Ethernet 10/100 Adapter ■ [2] D-Link DSL-100D ADSL Modem			
Item Notes: D-Link DSL-100D ADSL Modem	<u>A</u> dd	<u>R</u> emove	Properties	<u>U</u> pdate
	Item Notes: D-Link DSL-100	D ADSL Modem		
[2000]				

14. You need to restart the computer to save the settings changes, click Yes.



Configure Modem

The third step of the installation procedure is to configure the Modem. The configuration process is identical for all Windows operating systems except Windows 2000. This section describes both configuration processes.

Configure Modem for Windows 95/98/98SE, Windows ME and Windows NT 4.0

Follow these steps to configure the Modem on a PC running Windows 95/98/98SE, Windows ME or Windows NT 4.0:

1. After you have installed the driver, a new icon will appear in the system tray of your PC display on the right side. This icon mirrors the LED indicators located on the PCI modem. Right-click on the icon and a pop-up menu will appear. Select the **Configuration** option.



2. In the Configuration menu, you will need to choose the ADSL connection mode as instructed by your ADSL service provider. Select **ANSI T1.413 Issue 2**, **ITU G992.2 Annex A (G.lite)**, or **ITU G992.2 Annex A** in the Select ADSL Mode field by checking the box to the left of the mode. If you are unsure which mode to select you can select all three, the correct one will be detected automatically. Click **Set** when finished.

Configuration	×
PVC Setup	
Connection Address VPI : 0	VCI : 35
Framing VC MUX <u>Setting</u>	Close
Select ADSL Mode	
ANSI T1.413 Issue 2	
🔲 ITU G.992.2 Annex A (G.lite)	
TU G.992.1 Annex A (G.dmt)	Set 5

3. In the same window, you must define the data framing method used in the Framing pull-down menu. If your ADSL service provider doesn't instruct you which framing method to use, choose VC MUX for RFC 2364 (PPPoA), LLC/SNAP for RFC 1483 (MPoA) and RFC 1577 (IPoA). You must also enter the VPI and VCI values assigned to you. Click **Setting** when finished.

PVC Setup Connection Address VPI : 0 VC MUX Setting ULC/SNAP VC MUX Select AD SL Mode VC MUX
Connection Address VPI : 0 VCI : 35 Framing VC MUX Setting Close ULC/SNAP VC MUX Select AD SL Mode
Connection Address VPI : 0 VCI : 35 Framing VCMUX Select ADSL Mode ANSL T1 413 Issue 2
Framing VC MUX Setting Close
Select ADSL Mode
ANSET1 413 Jacua 2
MAGE11.41018806.2
TU G.992.2 Annex A (G.lite)
T ITU G.992.1 Annex A (G.dmt)

1. You must restart for the settings to take effect. Click Yes.



Configure Modem for Windows 2000

To configure the Modem for the Windows 2000 environment, follow these steps:

1. After you have installed the driver, a new icon will appear in the system tray of your PC display on the right side. This icon mirrors the LED indicators located on the PCI modem. Right-click on the icon and a pop-up menu will appear. Select the **Configuration** option.



2. In the Configuration window you will see the name of your ADSL service provider listed in the PVC Setup field. Click the **PVC Table** button to view and edit the PVC settings.

Configuration	×
PVC Setup	
ADSL Service Provider	•
PVC Table	Set As Active
Select ADSL Mode	
ANSI T1.413 Issue 2	
🔲 ITU G.992.2 Annex A (G.lite)	
🔲 ITU G.992.1 Annex A (G.dmt)	Set Mode
	Close

3. In the PVC Table window you will see your ADSL service provider listed as well as the default VPI/VCI settings, the ADSL protocol (RFC 2364 PPP over ATM), the framing method used (Virtual Circuit Multiplexing) and the status of the ADSL link (Active). Highlight the 'ADSL Service Provider' and click **Edit** or double-click the 'ADSL Service Provider' to change the settings.

P١	/C Table				×
	ISP Name ADSL Service Provider	Vpi / Vci 0,33	Protocol 2364 (PPPoA)	Framing VC MUX	Status Active
	Edit Add	Remov	Activate]	Close

4. In the Edit PVC Entry window you can change the VPI, VCI values as well as the ADSL protocol used and the framing method. Choose the protocol and framing method according to the instructions provided by your ADSL service provider. If your ADSL service provider doesn't instruct you which framing method to use, choose VC MUX for RFC2364 (PPPoA), LLC/SNAP for RFC 1483 (MPoA) and RFC 1577 (IPoA). In addition to this information, your service provider should have assigned a VPI and VCI value to use for your connection. Enter those values here as well. Click **OK** when you are satisfied with the PVC settings you have specified.

Edit PVC Entry				
ISP Name	ADSL Service Provider			
Vpi	0			
Vci	35			
Protocol	2364 (PPPoA)			
Framing	VC MUX			
Services		I		
	Ok Cancel]		

5. The PVC Table will again appear with a summary of the PVC settings. Check them again to be certain they are correct and click **Close** to exit this menu.

P١	/C Table				×
	ISP Name ADSL Service Provider	Vpi / Vci 0,35	Protocol 2364 (PPPoA)	Framing VC MUX	Status Active
	Edit Add	Remov	ve Activate]	Close

6. The Configuration window will appear one more time. Select the ADSL Mode according to the instruction of your ADSL service provider. If you are unsure which mode to select you can select all three, the correct one will be detected automatically. Click **Set Mode** to finalize this setting.



7. You may now close the Configuration window. Click **Close** to end the configuration process.





Connect to Internet

How you connect to the Internet using ADSL is effected by which protocol is used to establish that connection. The instructions here are given according to the connection method used. For ADSL connections using RFC 2364 (Point-to-Point Protocol over ATM), follow the instructions below.

The procedure for establishing Internet connection using RFC 1483 (Multi-protocol Encapsulation over ATM) and RFC 1577 (Classical IP over ATM) requires you to enter information given to you by your ISP or ADSL service provider. The procedures for the different Windows OS environments differ slightly and are presented in separate sections. Follow the instruction appropriate for your operating system.

RFC 2364 PPPoA Users

If you have configured the modem for the RFC 2364 PPPoA, the final step in the setup process is to establish the actual connection. The Modem uses the same system software as an analog modem to make the connection. However there is no actual dial-up. The ADSL connection is completely separate from regular voice telephone service.

1. To complete the ADSL connection (using RFC 2364), double-click the **DSL-100D ADSL Connection** icon that now appears on your desktop.



 You now need only to provide a User Name and Password, no other information is required. The sample window pictured below appears on a PC running Windows 95 or 98/98SE after you click on the icon.

🛃 Connect To		?×
Been D-L	.ink DSL-100D	
<u>U</u> ser name:	Joy Chen	
Password:	*****	
	Save password	
Phone <u>n</u> umber:	0	
Dialing from:	New Location	perties
	Connect	incel

- 3. Enter the User Name and Password here and click on **Connect**. You do not need to enter a phone number or in the case of Windows NT 4.0, you do not need to enter the domain information. Windows 2000 users will click on **Dial** to connect. Windows NT 4.0 users click on **OK** to connect.
- 4. A few seconds may be required for the negotiation phase of the connection procedure. Once the connection is established, a new window will confirm the connection.

Connection Established	신즈
You are connected to D-Link DSL-100D ADSL 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	
Do not show this dialog box in the future.	
Close More Information	

5. Click on **Close** and you are done.

For RFC 1483 and RFC 1577 Users

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

- ♦ IP Address,
- ♦ Subnet Mask,
- ♦ Gateway

- ♦ DNS Host Name
- ♦ DNS Domain
- ♦ DNS Server

Windows 95 and Windows 98 (RFC 1483/RFC 1577)

Follow these steps if you are using the RFC 1483 or RFC 1577 protocol on a computer running Windows 95 or Windows 98.

- 1. From the **Start** menu, select **Settings**, **Control Panel**, and then double-click on the **Network** icon.
- 2. The **Network** window appears. Select the **Configuration** tab, scroll down the installed network components list and click on **TCP/IP→ D-Link DSL-100D 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.
- 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 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.
- 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**.

Windows 2000 (RFC 1483/RFC 1577)

- 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-100D ADSL PCI 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.

Modem Indicators

Diagnostic Icon Function

Once you have installed the software driver a new **Diagnostic Tool** icon will appear in the lower right corner of your desktop in the system tray. This icon serves to help you monitor some of the characteristics of the ADSL connection. It can also be used to access the Configuration menu (see the next section). The table below summarizes the icon display function.

COLOR	STATUS DESCRIPTION
RED RED	No connection. Check your cable
BLACK YELLOW	Handshake process in progress
BLACK BLACK	Connection established, line is idle
BLACK GREEN	Connection established, data being received
GREEN BLACK	Connection established, data being transmitted
GREEN GREEN	Data being transmitted and received
Icon with Ø symbol	PCI Modem is disconnected or there is a problem with the driver

LED Indicators

There are two LED indicators on the PCI Modem. The **Link** indicator will light green when an ADSL link has been established. The **Act** indicator will blink green when there is activity on the ADSL line.

Uninstall the Modem

To uninstall this PCI ADSL Modem, follow these steps

- 1. Click on "Start",
- 2. Go to "Program",
- 3. Select "D-Link DSL-100D"
- 4. Click "Un-Installer" and follow the instructions when prompted

Appendix A

TECHNICAL SPECIFICATIONS

Interfaces: Edge connector for PCI bus; two RJ-11 jacks (ADSL connection and telephone connection).

Standards Compliance:

- ANSI T1.413 issue 2 (full-rate DMT over analog POTS)
- ITU G.992.1 (G.dmt)
- ITU G.992.2 (G.lite)

Data Rate:

DMT full rate: Downstream data rate to 8 Mbps, upstream data rate to 800 Kbps.

G.lite ADSL: Downstream data rate to 1.5 Mbps, upstream data rate to 800 Kbps.

Dimensions (H x W x D): 168.5 x 95 x 18 mm.

Operating temperature: 0° to 55° C.

Operating humidity: 5% to 95% (non-condensing).

EMI: CE class B, FCC class B

Safety: UL, CSA

Technical Support

Contact D-Link Technical Support at the phone numbers or Internet addresses listed below:

Technical Support: (949) 788-0805.

Web: www.dlink.com

D-Link[®] Offices

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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 INFO LINE: 1-800-326-1688 BBS: 1-949-455-1779, 1-949-455-9616 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:						
•	_	_	_	_	_	-

Your title at organization:_ Telephone:_____

_____Fax:____

____Dept.____

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.

Fax:

(* Applies to adapters only) Product was purchased from:

Reseller's name:

Telephone:

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 ?
- 5. What network management program does your organization use ?
 D-View DHP OpenView/Windows DHP OpenView/Unix DSunNet Manager DNovell NMS
 NetView 6000 DOthers_____
- 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 DSpreadsheet DWord processing DCAD/CAM
 Database management DAccounting DOthers______
- 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?

10. Your comments on this product? _____

