# ADSL PCI Modem

# Easy Start (Read Me First)

Version 1.2

#### Protocols Discussed:

RFC 2684 (RFC 1483) RFC 2225 (RFC 1577) RFC 2364

#### **Contents**

Product warranty does not apply to damage caused by lightning, power surges or wrong voltage usage.

# About this Easy Start

This booklet contains information on setting up your ADSL PCI Modem. It touches on the key installation procedures to help you setup your modem!



For users who have not installed a modem card before, it is recommended that you refer to the User Manual on the Installation CD ('**\manuals**' folder) for detailed installation instructions. It also contains the section on **Frequently Asked Questions**.

(Print out the entire User Manual for your easy reference.)

### **Minimum System Requirements**

- IBM PC-based computer with Pentium<sup>®</sup> MMX 233 processor or equivalent
- 1 CD-ROM drive
- 1 free PCI-Bus slot
- 32MB RAM (48MB is recommended) For Windows® 95 / Windows® 98
   64MB RAM (96MB is recommended) For Windows® Me
   64MB RAM (128MB is recommended) For Windows® XP
   32MB RAM For Windows NT® 4.0
   64MB RAM (128MB is recommended) For Windows® 2000
- 30MB free hard disk space for system files and modem driver (Windows CD-ROM may be required during installation, depending on your system's configurations.)
- Windows® 95 OSR2.1 / Windows® 98 / Windows® 98 Second Edition / Windows® Me / Windows® XP / Windows® 2000 / Windows NT® 4.0

# Step 1: Installing Your ADSL PCI Modem



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Power off your computer and any connected devices before connecting your modem card!

After removing the cover of your computer, locate any available PCI-Bus slot and remove its cover plate.

- **1** Insert your modem card firmly into the PCI-Bus slot.
  - Secure the modem card with the mounting screw and replace the cover of your computer.



### Step 2: Connecting Your ADSL PCI Modem



Connect your card as illustrated above. Upon completion, please proceed with the following section to install the card driver.

- 1. If your ADSL line and phone are sharing the same line, you need to connect a Micro-Filter<sup>1</sup> to your Telephone set as illustrated above.
  - 2. The **Telephone set** connection is **optional**. The **Phone jack** provides convenience to users who need to use the phone when accessing the computer. The use of Micro-Filter is not required if you are not connecting to a Telephone set.

1 Micro-Filter eliminates noise interference on your phone and prevent line disconnections when you are surfing the Internet. The use of Micro-Filter is not required if your ADSL and phone are not sharing the same line.

The device can be purchased separatey from your dealer.

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## Step 3: Installing Your ADSL PCI Modem Driver (One-Click Installation)

This section contains the installation procedures for protocols:

- RFC 2684 (also known as RFC 1483)
- RFC 2225 (also known as RFC 1577) and
- RFC 2364

You only need to install one of the protocols as determined by your Internet Service Provider.

There are 2 ways to install your modem driver: **One-Click Installation**<sup>2</sup> or **Manual Installation**. One-Click installation allows you to automate installation in a few steps whereas Manual Installation requires you to manually step through the entire installation process.

This guide contains only the One-Click Installation instructions. For Manual installation, please refer to the User Manual - **Installing Your ADSL PCI Modem Driver (Manual Installation)** on your Installation CD.

- 1. The screen shots, screens information and steps illustrated in this booklet serve only as a guide. The exact information and steps you see on your system may vary, depending on your system's configurations. For any dissimilarities, follow closely to the instructions as prompted on your PC screen.
- 2. System may prompt for your **Windows CD-ROM** during the driver installation. Have it ready by your side.
- 3. For Windows NT® 4.0 users, One-Click Installation is not supported. Please refer to the User Manual (on the Installation CD) for your driver installation instructions.

<sup>2</sup> One-Click Installation is not supported in Windows NT® 4.0. Please refer to the user manual found on the Installation CD for Windows NT® 4.0 Manual Installation.

### 3.1 One-Click Installation - For Windows<sup>®</sup> 95 OSR2.1

i) Power on your computer to start Windows. It will detect your newly-installed ADSL PCI Modem and prompt for its driver. Click **Cancel**.





#### For RFC 2364 users:

You need to have **Microsoft Dial-Up Networking (DUN) version 1.3** and above, installed in your system. If you already have it installed in your system, please proceed with the next step.

*If not*, please carry out the following steps to install the utility before proceeding with the next step.

- a) Go to Microsoft's website: http://www.microsoft.com.
- b) In the Microsoft Search path, enter Msdun13.exe. From the results listed, locate and select MSDUN13.EXE: Dial-Up Networking 1.3 Upgrade.
- c) Click **Msdun13.exe** to download the file to your harddisk. [*file size is about 2.4MBytes*]
- From your Windows taskbar, click Start > Run.... Browse to the directory where you have downloaded Msdun13.exe. Select the file and click OK.

Run	? ×
2	Type the name of a program, folder, or document, and Windows will open it for you.
<u>O</u> pen:	D:\msdun13.exe
	OK Cancel <u>B</u> rowse

Click OK again.

- e) At the prompt to install Dial-Up Networking, click Yes to proceed.
- f) At the Microsoft TCP/IP Networking prompt, click Yes.
- g) When prompted to restart, click OK.
- ii) Place the Installation CD into your CD-ROM Drive. A Main Menu will be prompted.

(If you do not see the Menu displayed, double-click on **My Computer** icon. Locate your **CD-ROM Drive** icon and double-click on it. *Alternatively*, you may double-click on the **setup.exe** at the **util** folder on the Installation CD.)

On the Menu, click the circle corresponding to the protocol you are installing. Installation will commence.

iii) Depending on your system's configurations, you may be prompted for your **Windows CD-ROM** for some missing files.

Replace the Installation CD in your CD-ROM drive with your **Windows CD-ROM** and click **OK**.

Insert Disk Please insert the disk labeled Windows 95 CD-ROM	1', and ther	THE UK	
<u> </u>	Copying	Files The file 'host could not br	OK Cancel
If prompted for the files location, type in your Windows CD-ROM path in		Setup could not find a file on the specified path. If the path appears below, make sure it is correct. Click OK to try copying again.	Skip File
the text box and click <b>OK</b> .		Copy files from: DX:winSE	<u>D</u> etails

Allow some time for system to install and copy all required files for your modem. See note on the following page.



#### For RFC 2684 (RFC 1483) users:

Upon files copying complete, system will automatically restart. (Rebooting may take a while.)

You may be prompted with DHCP Client. Click No.

🚮 DHCP	Client 🛛
⚠	This DHCP client was unable to obtain an IP network address from a DHCP server. Do you want to see future DHCP messages?
	Yes No K

This completes your driver installation. Please proceed to **Step 4** to configure the VPI/VCI values.

#### For RFC 2364 users:

Upon files copying complete, system will automatically restart. (Rebooting may take a while.)

If you are installing a modem in your computer for the first time, you may be prompted for your location information. Enter the relevant information and click **Close**.

This completes your driver installation. Please proceed to **Step 4** to configure the VPI/VCI values.

#### For RFC 2225 (RFC 1577) users:

You will be prompted with the **TCP/IP & PVC Setting** dialog box as shown below.

A TCP/IP & PVC Setting	×
Frable DNS Host: ADSL Domain:	
DNS Server Search Order Add 165.21.83.88 165.21.100.88 Remove	
Specily an IP address     Gateway     IP Address     New gateway:	
Subnet Mask: 255.255.0	

Enter the **IP Address** and **New Gateway** fields with the addresses given by your Internet Service Provider.

Overwrite the default values with values given by your Internet Service Provider, when necessary.

Click OK.

At the prompt for restart, click **OK**.

### 3.2 One-Click Installation - For Windows<sup>®</sup> 98 / Windows<sup>®</sup> 98 Second Edition

i) Power on your computer to start Windows. It will detect your newlyinstalled ADSL PCI Modem and prompt for its driver. Click **Cancel**.



ii) Place the Installation CD into your CD-ROM Drive. A Main Menu will be prompted.

(If you do not see the Menu displayed, double-click on **My Computer** icon. Locate your **CD-ROM Drive** icon and double-click on it. Alternatively, you may double-click on the **setup.exe** at the **util** folder on the Installation CD.)

On the Menu, click the circle corresponding to the protocol you are installing. Installation will commence.

iii) Depending on your system's configurations, you may be prompted for your **Windows CD-ROM** for some missing files.

Replace the Installation CD in your CD-ROM drive with your **Windows CD-ROM** and click **OK**.

Insert Di	sk		
8	Please insert the disk labeled 'Windows 98 Second	Edition CD-ROM', and then click OK.	
	[0K]	findows:98 annot be fr 🛛 🔐	ОК
		Insert Windows 98 Second Edition CD-ROM in the selected drive, and click OK.	Cancel
			<u>S</u> kip File
		Copy files from:	Details

*If* prompted for the files location, type in your Windows CD-ROM path in the text box and click **OK**.

Allow some time for system to install and copy all required files for your modem.

iv) Upon completion, system will automatically restart. (Rebooting may take a while.)

For RFC 2364 and RFC 2225 (RFC 1577) users, see the note below.

For RFC 2684 (RFC 1483) users, please proceed to Step 4 to configure the VPI/VCI values.



#### For RFC 2364 users:

If you are installing a modem in your computer for the first time, you may be prompted for your location information. Enter the relevant information and click **Close**. Please proceed to **Step 4** to configure the VPI/VCI values.

#### For RFC 2225 (RFC 1577) users:

From the **TCP/IP & PVC Setting** dialog box, enter the **IP Address** and **New Gateway** fields with the addresses given by your Internet Service Provider.

Enable DNS	Damain
Hose Para	Domain: j
DNS Server Search Order	
	Add
165.21.83.88 165.21.100.88	Remove
Specify an IP address	Gateway
IP Address:	New gateway:
Subnet Mask: 255.255.255.	
,	
	OK Cancel

Overwrite the default values with values given by your Internet Service Provider, when necessary. Click **OK**.

At the prompt for restart, click **OK**.

### 3.3 One-Click Installation - For Windows<sup>®</sup> Me

i) Power on your computer to start Windows. It will detect your newly-installed ADSL PCI Modem and prompt for its driver. Click **Cancel**.

Add New Hardware Wizard			
Add New Hardware Wiz	And Windows has found the following new hardware: PCI Network Controller Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next. What would you like to do? Automatic search for a better driver (Recommended) Specify the location of the driver (Advanced)		
	< <u>B</u> ack Next > Cancel		

ii) Place the Installation CD into your CD-ROM Drive. A Main Menu will be prompted.

(If you do not see the Menu displayed, double-click on **My Computer** icon. Locate your **CD-ROM Drive** icon and double-click on it. Alternatively, you may double-click on the **setup.exe** at the **util** folder on the Installation CD.)

On the Menu, click the circle corresponding to the protocol you are installing. Installation will commence.

iii) Allow some time for your system to install and copy all the required files for your modem. Upon completion, system will restart automatically. (Rebooting may take a while.)

For RFC 2364 and RFC 2225 (RFC 1577) users, see the note on the following page.

For RFC 2684 (RFC 1483) users, please proceed to Step 4 to configure the VPI/VCI values.



#### For RFC 2364 users:

If you are installing a modem in your computer for the first time, you may be prompted for your location information. Enter the relevant information and click **Close**. Please proceed to **Step 4** to configure the VPI/VCI values.

#### For RFC 2225 (RFC 1577) users:

You will be prompted with the dialog box shown below.

Enter the **IP Address** and **New Gateway** fields with the addresses given by your Internet Service Provider.

🚔 TCP/IP & PVC Setting	×
Frable DNS	
DNS Server Search Order         Add           165.21.83.88         Remove	
IP Address:     IP Address:       Subnet Mask:     255.255.0	
OK Cancel	

Overwrite the default values with values given by your Internet Service Provider, when necessary.

Click OK.

At the prompt for restart, click **OK**.

### 3.4 One-Click Installation - For Windows® XP

i) Power on your computer to start Windows. It will detect your newlyinstalled ADSL PCI Modem and prompt for its driver. Click **Cancel**.

Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard	
	This wizard helps you install software for:	
	Network Controller	
	If your hardware came with an installation CD or floppy disk, insert it now.	
	What do you want the wizard to do?	
	<ul> <li>Install the software automatically (Recommended)</li> <li>Install from a list or specific location (Advanced)</li> </ul>	
	Click Next to continue.	
< Back Next > Cancel		

ii) Place the Installation CD into your CD-ROM Drive. A Main Menu will be prompted.

(If you do not see the Menu displayed, double-click on **My Computer** icon. Locate your **CD-ROM Drive** icon and double-click on it. Alternatively, you may double-click on the **setup.exe** at the **util** folder on the Installation CD.)

Click on the circle corresponding to the protocol you are installing. Installation will commence.

iii) You may be prompted with a dialog box similar to the following. Click **Continue Anyway** to proceed. (This occurs when Windows detects the driver as a new version).

has not passed Windows Logo testing to verify its compatibility with Windows XP. [ <u>fell me why this testing is important</u> .] Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway

- iv) Allow some time for your system to automatically install and copy all the required files for your modem.
- v) You will be prompted 'Installation Completed Successfully'. Click OK. Click Exit from the Menu.

#### For RFC 2684 (RFC 1483) and RFC 2364 users:

Please proceed to Step 4 to configure the VPI/VCI values.

**For RFC 2364 users**, if you are installing a modem in your computer for the first time, you may be prompted for your location information. Enter the relevant information and click **Close**.

#### For RFC 2225 (RFC 1577) users:

- a) From your Windows desktop, click Start > All Programs > Accessories > Communications > Network Connections.
- Right-click on the Local Area Connection icon that reflects your modem ADSL PCI Modem and click Properties.
- c) Ensure that the field Connect Using indicates ADSL PCI Modem.

Select Internet Protocol (TCP/IP) and click Properties.



c) Select the option 'Use the following IP address'. Enter all the required information as given by your Internet Service Provider and click OK.

Click OK again.



acol (TCP/IP) Properties       ? ×         IP settings assigned automatically if your network supports y. Otherwise, you need to ask your network administrator for ale IP settings.				
IP settings assigned automatically if your network supports you here to ask your network administrator for ate IP settings.         In IP address automatically         IV Use the following IP address:         IP address:		ocol (TCP/IP) Propertie	s ? X	
IP address:         165.21.21.21           IP address:         165.255.255.0           Subnet mask:         255.255.0           Default gateway:         165.21.21.1           C Obtain DNS server address automatically         C           C Use the following DNS server:         165.21.83.88           Alternate DNS server:         165.21.100.88	R.	: IP settings assigned autor y. Otherwise, you need to a ate IP settings. an IP address automatical	hatically if your network supports sk your network, administrator for y	
IP address:       165.21.21.21         Subnet mask:       255.255.255.0         Default gateway:       165.21.21.1         C Obtain DNS server address automatically         IC Use the following DNS server addresses:         Preferred DNS server:       165.21.83.88         Alternate DNS server:       165.21.100.88         Advanced         DK       Cancel	O Use	the following IP address:		
Subnet mask: 255 . 255 . 255 . 0 Default gateway: 165 . 21 . 21 . 1 C Obtain DNS server address automatically C Use the following DNS server addresses: Preferred DNS server: 165 . 21 . 83 . 88 Alternate DNS server: 165 . 21 . 100 . 88 Advanced	IP address:		165 . 21 . 21 . 21	
Default gateway: 165 . 21 . 21 . 1  C Obtain DNS server address automatically C Use the following DNS server addresses: Preferred DNS server: 165 . 21 . 83 . 88 Alternate DNS server: 165 . 21 . 100 . 88  Advanced  OK Cancel	Subnet mask:		255.255.255.0	
C Obtain DNS server address automatically C Use the following DNS server addresses: Preferred DNS server: 165 . 21 . 83 . 88 Alternate DNS server: 165 . 21 . 100 . 88 Advanced OK Cancel	Default	gateway:	165 . 21 . 21 . 1	
• Use the following DNS server addresses:            Preferred DNS server:              165 . 21 . 83 . 98            Alternate DNS server:              165 . 21 . 100 . 88            Advanced             DK              Cancel	C Obtain DNS server address automatically			
Preferred DNS server:         165.21.83.88           Alternate DNS server:         165.21.100.88           Advanced	Use the following DNS server addresses:			
Alternate DNS server: 165 . 21 . 100 . 98 Advanced	Preferred DNS server:		165 . 21 . 83 . 88	
Advanced	Alterna	te DNS server:	165 . 21 . 100 . 88	
OK Cancel			Advanced	
			OK Cancel	

### 3.5 One-Click Installation - For Windows<sup>®</sup> 2000

i) Power on your computer to start Windows. It will detect your newlyinstalled ADSL PCI Modem and prompt for its driver. Click **Cancel**.

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	

ii) Place the Installation CD into your CD-ROM Drive. A Main Menu will be prompted.

(If you do not see the Menu displayed, double-click on **My Computer** icon. Locate your **CD-ROM Drive** icon and double-click on it. Alternatively, you may double-click on the **setup.exe** at the **util** folder on the Installation CD.)

Click on the circle corresponding to the protocol you are installing. Installation will commence.

iii) You may be prompted with **Digital Signature Not Found** dialog box. Click **Yes** to proceed. (This occurs when Windows detects the driver as a new version).



iv) Allow some time for your system to automatically install and copy all the required files for your modem.

 v) You will be prompted 'Installation Completed Successfully'. Click OK. Click Exit from the Menu.

#### For RFC 2684 (RFC 1483) and RFC 2364 users:

Please proceed to Step 4 to configure the VPI/VCI values.

**For RFC 2364 users**, if you are installing a modem in your computer for the first time, you may be prompted for your location information. Enter the relevant information and click **Close**.

#### For RFC 2225 (RFC 1577) users:

- a) From your Windows desktop, right-click on My Network Places icon and select Properties.
- b) At the Network and Dial-up Connections window, right-click on the Local Area Connection icon and select Properties.



#### c) Ensure that the field Connect Using indicates ADSL PCI Modem.

(This is especially important if you have more than one **Local Area Connection** icons displayed on your **Network and Dial-up Connections** window. If you do not see **ADSL PCI Modem** listed in the field, right-click another **Local Area Connection** icon and check.)

Select Internet Protocol (TCP/IP) and click Properties.

Local Area Connection 2 Properties
General Sharing
Connect using:
B ADSL PCI Modem
Configure
Components checked are used by this connection:
Elient for Microsoft Networks      Elient for Microsoft Networks      Elie and Printer Sharing for Microsoft Networks      Elie Add P
The ADDE management and worker interface
Install Uninstall Properties
Transmission Control Protocol/Internet Protocol. The default

c) Select the option 'Use the following IP address'. Enter all the required information as given by your Internet Service Provider and click **OK**.

Click **OK** again.

Internet Protocol (TCP/IP) Propertie	es <u>? X</u>
General	
You can get IP settings assigned autor this capability. Otherwise, you need to the appropriate IP settings.	natically if your network supports ask your network administrator for
C Obtain an IP address automatical	ly
• Use the following IP address: —	
IP address:	165 . 21 . 21 . 21
Subnet mask:	255.255.255.0
Default gateway:	165 . 21 . 21 . 1
C Obtain DNS server address autor	natically
Use the following DNS server ad	dresses:
Preferred DNS server:	165 . 21 . 83 . 88
Alternate DNS server:	165 . 21 . 100 . 88
	Advanced
	OK Cancel

# Step 4: Configuring VPI/VCI Values for Internet Connection

i) Right-click on the MAPI Icon<sup>3</sup> . Select Configuration.



ii) The following window will be prompted.

(The options for RFC 2684, 2225 and 2364 are similar. The illustration shown here is based on RFC 2364.)

Click to configure and add multiple	Configuration PVC Setup ADSL Service Provider	X X	Click to select your Internet Service Provider.
VPI/VCI values (see step iii)	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	Click to activate the listed Service Provider. Click <b>Set Mode</b> if you have make changes to the ADSL mode.
		Click to exit.	

**3** MAPI Icon will be displayed at your Windows system tray after you have successfully installed your modem driver. This icon will allow you to monitor your ADSL line connection, configure your VPI/VCI values and so on. The different MAPI LEDs light indicate different connection states. For details, please refer to **Appendix A - ADSL MAPI Icon** on the User Manual.

iii) To configure VPI/VCI values, add multiple ISP names or multiple VPI/VCI values, click PVC Table.

PVC Table					×			
ISP Name	Vpi / Vci	Protocol	Framing	Status	-			
ADSL Service Provider ADSL Provider 2	0,35 0,100	2364 (PPPoA) 2364 (PPPoA)	VC MUX VC MUX	Active				
					Edit PVC En	try		×
					ISP Name	ADSL Service Provider	_	
1					Vpi	0		
Edit Add	Remov	ve Activate		Close	Vci	35		
					Protocol	2364 (PPPoA) 💌		
(Illustrations	chown	horo aro	ovampl	00	Framing	VC MUX		
(IIIustrations	5110 0011	nere are	exampi		Services		~	Refresh
			UII	y.)	Status			
						<u>D</u> k	Cancel	Apply

To **edit** the existing configuration or to change the ISP Name, double-click on it. Overwrite the existing values with your new ones and click **OK**.

To **add** a new configuration, click **Add**. Enter your new ISP Name, VPI, VCI values and click **OK**.

To **remove** an existing configuration, click on the ISP Name and click **Remove**.

You may **activate** any of your configurations by selecting the ISP Name and click **Activate**.

For RFC 2684 and 2225 users, you may double-click your browser to begin your Internet surfing!

For RFC 2364 users, please proceed to Step 5 to establish your Internet connection.

# Step 5: Establishing Your Internet Connection (For RFC 2364 only)

- i) From your Windows desktop, a **ADSL PCI Modem** dial-up icon will be generated. Double-click on it.
- ii) A dialog box similar to the one shown on your right will be prompted.

(The illustrated screen is based on Windows<sup>®</sup> Me. Different operating systems may have their screen differ slightly.)

Enter the required information.

Ensure that the **MAPI Icon** (at your system tray) shows both the LEDs **black** in colour (indicating ADSL line is established).

Click **Connect** to dial up to the Internet.

🖏 Connect To	<u>?×</u>
₽₽, L 🏈	ADSL PCI Modem
User name:	Leow
Password:	кининии
	Save password     Connect automatically
Phone <u>n</u> umber:	0
Dialing from:	New Location <u>D</u> ial Properties
	Connect N Properties Cancel

iii) Upon successful dial-up, you should be able to see an icon ( 🐴 ) displayed at the corner of your Windows taskbar. Double-click your browser to begin your Internet surfing!

Double-click on the icon. You will be able to see the following information.



(The connection speed indicates the speed that the ADSL modem can achieved. Your actual connection speed will depend on the subscription plan that you have signedup with your ADSL Service Provider.)

Check your connection time by looking at the **Duration**. Click **Disconnect** to end the session.

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