# ADSL PCI Modem

# Easy Start (Read Me First)

#### Version 1.0

#### Protocols Discussed:

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

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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 and allows you to setup your modem within minutes!

For users who have not installed a modem card before, it is recommended that you refer to the User Manual on the Installation CD for detailed installation instructions. It also contains the sections on Frequently Asked Questions and Troubleshooting Guide.

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



Please read the **ReadMe.txt** file on the Installation CD for any new updates on the product.

# **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
- 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<sup>®</sup> 95 OSR2.1 Windows<sup>®</sup> 98 Windows<sup>®</sup> 98 Second Edition Windows<sup>®</sup> Me Windows<sup>®</sup> 2000 or Windows NT<sup>®</sup> 4.0

# Step 1: Installing Your ADSL PCI Modem



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.



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. The connection for the **Telephone set** is **optional**. The **Phone jack** provides convenience to users who need to use the phone when accessing the computer.
- 2. **No external Micro-Filter** is required as your ADSL PCI Modem has a built-in Micro-Filter at the Phone jack.

## 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.

The modem driver installation comes with both **One-Click Installation**\* and **Manual Installation** instructions. One-Click installation allows you to automate installation in just 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)**.

- 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<sup>®</sup> 4.0 users, One-Click Installation is not supported. Please refer to the User Manual (on the Installation CD) for your driver installation instructions.

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

Update Device Driver V	√izard
	This wizard will complete the installation of:
	PCI Network Controller
	by searching your local drives, network, and Internet locations for the most current driver.
	If you have a disk or CD-ROM that came with this device, insert it now.
	It is recommended that you let Windows search for an updated driver. To do this, click Next to continue.
Ś	
	< Back Next > N



#### 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.
- 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	? 🗙
<u>_</u>	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 Browse

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	we K UK.	
OK N	Copying	Files The file 'hos'	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.	<u>S</u> kip File
the text box and click <b>OK</b> .		Copy files from:	<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 13

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.

🚔 TCP/IP & PVC Setting	×
F Enable DNS Host: ADSL Domain:	
DNS Server Search Order Add 165.21.83.88 185.21.100.88 Remove	
IP Address     Image: Gateway       IP Address:     New gateway:       Subnet Mask:     255.255.255.0	
0K Cancel	

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**.

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

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

i) Power on your computer to start Windows. It will detect your newly-installed 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	E.	
$\otimes$	Please insert the disk labeled 'Windows 98 Second B	Edition CD-ROM', and then click OK.	× ×
	[]	Vindows 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: D:\WIN98	<u>D</u> etails
		,	

*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.

Host: ADSL		main:		
DNS Server Sea	rch Urder		Add	
165.21.83.88 165.21.100.8	8	B	emove	
Specify an IP	address		🔽 Gatewaj	]
IP Address:			New gatew	ay:
Subnet Mask:	255.255.255.0			

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

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

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

### 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**.



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	X
Host: ADSL Domain:	
Add           165.21.83.88           165.21.100.88	
IP Address     IP Address       Subnet Mask:     255.255.0	
0K Cancel	

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

Click OK.

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

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

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

i) Power on your computer to start Windows. It will detect your newly-installed 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. This occurs when Windows detected a newer version of your driver. Click **Yes** to proceed.
- 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 the icon **My Network Places**. Select **Properties**.
- b) From your Windows desktop, right-click on **My Network Places** icon and select **Properties**.

At the **Network and Dial-up Connections** window, double-click on the **Local Area Connection** icon.



If you have previously installed Network Card(s) and/or Modem Card(s) in your system, you will see more than one **Local Area Connection** icons displayed. Double-click on one of the icons. From the **Connect using** field at the Properties dialog box, you should see **ADSL PCI Modem** listed (see the following page for illustration). If not, double-click another **Local Area Connection** icon and check.

Ensure that the field **Connect Using** indicates **ADSL PCI Modem**. (Else, you need to re-install your modem driver.)

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

cal Area Connection 2 Properties	<u>? ×</u>	
General Sharing		
Connect using:		
B ADSL PCI Modem		
Components checked are used by this connection	n:	
Glient for Microsoft Networks		_
File and Printer Sharing for Microsoft Netw     File ADSL Management and Monitor Inte		
Internet Protocol (TCP/IP)	1	
Install Uninstall	Properties N	
Description		
Transmission Control Protocol/Internet Protocol wide area network protocol that provides comm	The default	operties ?
across diverse interconnected networks.	General	apercies
Sho <u>w</u> icon in taskbar when connected		al and an article Her Manager and a supervised as a second second second second second second second second se
		ed automatically if your network supports eed to ask your network administrator for
OK	ule appropriate il settings.	
	<ul> <li>Obtain an IP address auto</li> <li>Obtain (P address auto)</li> </ul>	
	<ul> <li>Use the following IP address:</li> </ul>	165 . 21 . 21 . 21
elect the option 'Use	Subnet mask:	255 . 255 . 255 . 0
the following IP	Default gateway:	165.21.21.1
address'. Enter all		,
the required	<ul> <li>Obtain DNS server addres</li> <li>Use the following DNS set</li> </ul>	
•	Preferred DNS server:	165 . 21 . 83 . 88
information as given	Alternate DNS server:	165 . 21 . 100 . 88
by your Internet		
Service Provider and		Advanced
click OK.		
Click <b>OK</b> again.		OK Cancel

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

c)

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

i) Right-click on the MAPI Icon<sup>†</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 PVC Table	As Active	Click to select your Internet Service Provider.
VPI/VCI values (see step iii)		St Mode	Click to activate the listed Service Provider. Click <b>Set Mode</b> if you have make changes to the ADSL mode.
	С	lick to exit.	

† 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.

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 Er	ntry
					ISP Name	ADSL Service Provider
					Vpi	0
Edit Add	Remov	/e Activate		Close	Vci	35
					Protocol	2364 (PPPoA)
(Illustrations	shown	horo aro	ovamnlı	20	Framing	VC MUX
(Indstrations	3110 1011	nere are			Services	▼ Refre
			only	<i>\</i> .)	Status	
						<u>O</u> k Cancel Appl

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	•
<u>U</u> ser name: <u>P</u> assword:	Leow	
	Save password     Connect <u>a</u> utomatically	
Phone <u>n</u> umber:	0	
Dialing from:	New Location	Properties
	Connect 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.

🚽 Conn	ected to ADSL PCI Modem	? ×
	Connected at 3,488,000 bps Duration: 000:03:59 Bytes received: 229 Bytes sent: 1,576	Dis <u>c</u> onnect

(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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