# ADSL PCI Modem

# Easy Start (Read Me First)

#### Version 1.0

#### **Protocols Discussed:**

RFC 1483 RFC 1577 RFC 2364

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# 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.



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

### Package

Ensure that you have the following items in your ADSL package. For any missing items, please contact your dealer immediately.

- 1 ADSL PCI Modem Card
- 1 Telephone cable (RJ-11) (optional)
- 1 Micro-Filter (optional)
- 1 ADSL PCI Modem Easy Start

### **Installation Notes**

- The graphics and screens illustrations shown in this easy start may differ from what you see from your system, but the steps still apply.
- A Philips Screwdriver is required for the card installation.
- The documentation for your computer should come in handy during the card installation. Have it ready by your side.
- It is recommended that any existing modem card be removed before installing your new modem card.

### **Safety Precaution**

- Do not remove your card from its protective bag until you are ready to install it.
- Always try to hold your card by its edges. Avoid touching any electronic components on your card.
- Static electricity can cause permanent damage to your card. To prevent such a damage, touch any non-painted surface of the computer's chassis before you begin installation, and again every minute or so until the installation is completed.
- This product is for use only in UL Listed computers
- To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

# Step 1: Installing Your ADSL PCI Modem



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

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

- 1 Insert your card firmly into the selected PCI-Bus slot.
- Secure the card with the mounting screw.

Replace the cover of your computer and secure all the screws back in place.



### Step 2: Connecting Your ADSL PCI Modem



Carry out the connections as illustrated above.

- 1. The connection to the **Telephone Set** is **optional**. The **Phone Jack** provides convenience to users who need to use the Telephone when accessing the computer.
  - A Micro Filter (can be purchased separately from your dealer) is required between the Phone Jack on the modem card and the Telephone Set.

† The use of Micro-Filter eliminates noise on the telephone line and ensure best possible networked phone performance. If your house has more than one telephone sets all sharing the same ADSL line, than each of the telephone sets will have to be connected to a Micro-Filter. (Connect the Micro-Filter between your Telephone Set and the telephone wall socket)

If your ADSL uses a different line and not sharing with your telephone, then a Micro-Filter will not be necessary.

\* CAUTION ! - To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

## Step 3: Installing Your ADSL PCI Modem Driver

- 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 configurations. For any dissimilarities, follow closely to the instructions as prompted on your PC screen.
  - 2. Depending on your system configurations, you may be prompted for your **Windows CD-ROM** during installation. Have it ready by your side.

This section contains the installation procedures for the following protocols. You need to install only one of them, as determined by your Internet Service Provider (ISP).

- RFC 1483
- RFC 1577
- RFC 2364

The following screen shots shows RFC 2364 protocol being used, unless otherwise stated.

### 3.1 For Windows<sup>®</sup> 95 users

i) Power on your computer to start Windows. It will detect your newly-installed modem and prompt for its driver.



Place the **Installation CD** into your CD-ROM drive and click **Next**. ii) Click Other Locations... to specify the driver location.



iii) For RFC 1483 or 1577 users, click Browse and navigate to the '\Win95\Lan' folder on your CD-ROM.

For **RFC 2364 users**, click **Browse** and navigate to the '\Win95\Wan' folder on your CD-ROM.

Click OK.



v) At the following prompt, ensure that your **Installation CD** is in your CD-ROM drive and click **OK**.

Please insert the disk labeled 'ADSL PCI Modern Installatio	n Disk', and then click UK.	
At the prompt for file location, enter '\Win95\LAN' for RFC 1483 and RFC 1577 or '\Win95\WAN' for RFC 2364.	Insert ADSL PCI Modern Installation Disk into the drive selected below. and click DK. Copy files from:	Cancel
Click OK.		

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

Replace your **Installation CD** with **Windows CD-ROM** on your CD-ROM Drive and click **OK**.

Insert Disk		
Please insert the disk labeled 'Windows 95 CD-ROM', and t	then click OK.	X
СК	file 'hosts.r id not be fr Insert Windows 95 CD-ROM into the drive selected below, and click OK.	OK 📐 Cancel
At the prompt for file location, enter the path of your Windows CD-ROM and click <b>OK</b> .	Copy files from:	<u>S</u> kip File <u>D</u> etails

vii) If there is a Version Conflict prompt, it is recommended that you keep your existing file. Click Yes.

viii) At the prompt for restart, click Yes.

### 3.2 For Windows<sup>®</sup> 98 / 98 Second Edition(SE) users

i) Power on your computer to start Windows. It will detect your newly-installed modem and prompt for its driver.





iii) Select Specify a location and click Browse....

> For RFC1483 and 1577 users, navigate to 'W2k98Me\Lan' directory on your Installation CD.

For RFC2364 users, navigate to 'W2k98Me\Wan' directory on your Installation CD. Click Next.

ii)

iv) Click Next again to proceed installation with the driver found.





The driver name (.inf) illustrated may be different from what you see on your system. This is due to a different driver version being used during screens capturing. What you see on your system is a more updated driver version.

Add New Hardware Wiza	ard
	ADSL PCI Modem Windows has finished installing the software that your new hardware device requires.
	< Back Finish Cancel

v) Click **Finish** to complete the driver installation.

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

> Replace your **Installation CD** with **Windows CD-ROM** on your CD-ROM Drive and click **OK**.

vii) At the prompt for restart, click Yes.

### 3.3 For Windows® Me users

i) Power on your computer to start Windows. It will detect your newly-installed modem and prompt for its driver.

Add New Hardware Wizard				
	Windows has found the following new hardware: PCI System Peripheral 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)			
	< Back Next > Cancel			

Select Specify the location of the driver (Advanced) option.

Place the **Installation CD** into your CD-ROM drive and click **Next**.

ii) Click Specify a location.

For RFC 1483 and 1577 users, click Browse and navigate to '\W2k98Me\Lan' folder on your CD-ROM drive.

For RFC 2364 users, click Browse and navigate to \W2k98Me\Wan folder.

Click Next.



iii) Windows will prompt that the driver has been found. Click **Next** to proceed installation with the driver found.

Add New Hardware Wizard				
Add New Hardware Wiz	ard Windows driver file search for the device: ADSL PCI Modem Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue. Location of driver: D:\W2K98ME\WAN\CXT1610R.INF			
	< <u>Back</u> Cancel			



The driver name (.inf) illustrated may be different from what you see on your system. This is due to a different driver version being used during screens capturing. What you see on your system is a more updated driver version.

iv) Click Finish to complete the driver installation.

Add New Hardware Wizard				
	ADSL PCI Modem Windows has finished installing the new hardware device.			
	< Back Finish Cancel			

v) At the prompt to restart, click Yes.

### 3.4 For Windows<sup>®</sup> 2000 users

click Next.

i) Power on your computer to start Windows. It will detect your newly-installed modem and prompt for its driver.

Found New Hardware Wizard			
	Welcome to the Found New Hardware Wizard           This wizard helps you install a device driver for a hardware device.           To continue, click Next.		Place the Installation CD into your CD-ROM drive and click Next.
	[	< Back Next > Cancel	makes at the device work. Windows locate dri miles and complete the
Select Search suitable driver f	or my device	What do you want the wizard to do? Search for a suitable driver for my o Display a list of the known drivers f driver	device (recommended) for this device so that I can choose a specific

Next>N

Cancel

< Back



ii)

iv) Click Browse and navigate to \W2k98Me\Lan' directory (for RFC 1483 and RFC 1577) or 'W2k98Me\Wan' directory (for RFC 2364) on the Installation CD.



Click OK.



vi) A **Digital Signature Not Found** Window may appear. This occurs when Windows detected a newer version of your driver. Click **Yes** to proceed.



vii) Click **Finish** to complete the installation.

(If prompted with **Digital Signature Not Found** Window again, click **Yes.**)

### Step 4: Verifying Your ADSL PCI Modem

### 4.1 For Windows<sup>®</sup> Me / 98 / 95 users

- i) From your Windows desktop, right-click on My Computer and select Properties.
- ii) Click on the **Device Manager** tab.



You should see ADSL PCI Modem listed.

If the driver was not installed properly, a yellow exclamation mark will appear beside the installed device. In this case, uninstall the driver (select the device and click **Remove**) and reinstall again.

iii) For RFC 1577 users, please proceed with Step 5 to configure the properties of your protocol.

For RFC 1483 and 2364 users, please proceed with Step 6 to configure the properties of your protocol.

### 4.2 For Windows<sup>®</sup> 2000 users

- i) From your Windows desktop, right-click on My Computer and select Properties.
- ii) Click on the Hardware tab and then Device Manager....



You should see ADSL PCI Modem listed.

If the driver was not installed properly, a yellow exclamation mark will appear beside the installed device. In this case, uninstall the driver (select the device and click **Remove**) and reinstall again.

iii) For RFC 1577 users, please proceed with Step 5 to configure the properties of your protocol.

For RFC 1483 and 2364 users, please proceed with Step 6 to configure the properties of your protocol.

### Step 5: Configuring Protocol Properties (for RFC1577 users)

i) From your Control Panel, locate ADSL PCI Modem ADSL PCI Modem

click on it. From the window prompted, press <**Alt**><**P**>. The following dialog box will be prompted. Click the **Protocol Setup** tab.

ADSL PCI Modem			×	
AutoLog Conn	ction Line Set	up ATM Statistics	AAL Statistics	
General Physic	I Layer Statistics	ATM Link Statistics		
Protocol Setup				apsulation Mode drop- ick and select
Virtual Path Identif	Virtual Circuit r (VPI)	0 Virtual Circuit	Classical IP o	ver ATM (RFC1577).
Virtual Circuit Identif	r (VCI)	01 4	Click Apply fo	ollowed by OK.
Aggregate Channel Setu Encapsulation Mod Maximum Packet Leng	Bridged IP over ATM I	LLCSNAP (RFC1483)		
Receive Tran 1500 1500	mit Peak C	Maximum Packet Lengt	Bridged IP over ATM LLCSNA Bridged IP over ATM LLCSNA Bridged IP over ATM LLCSNA Bridged IP over ATM VCMUX Routed IP over ATM VCMUX Classical IP over ATM (RFCT	AP (RFC1483) (RFC1483) (RFC1483) (RFC1483)
				Apply



- ii) Upon system restart, right-click on the **Network Neighborhood** icon and select **Properties**.
- iii) Locate TCP/IP -> ADSL PCI Modem and click Properties.



## Step 6: Setting VPI/PCI Values

From your Control Panel, locate ADSL PCI Modem

on it. From the window prompted, press < Alt>< P>. The following dialog box will be prompted. Click the **Protocol Setup** tab.

#### To change VPI/VCI values:

At the Virtual Circuit O field, enter the VPI and VCI values given by your ISP. Click Apply and OK.

#### To change Encapsulation mode (for RFC 1483 and RFC 2364 only):

From the **Encapsulation Mode** drop-down field, click and select the appropriate option as given by your ISP. Click **Apply** followed by **OK**.

You may proceed with the next section to monitor your ADSL Connection.

ADSL PCI Modem
AutoLog Connection Line Setup ATM Statistics AAL Statistics
General Physical Layer Statistics ATM Link Statistics AAL Link Statistics Protocol Setup ATM 0AM Loopback HAL Diagnostics TCP/IP
ATM Virtual Circuit Identification Virtual Circuit 0 Virtual Circuit 1 Virtual Circuit Identifier (VCI)  Aggregate Channel Setup
Encapsulation Mode PPP over ATM VCMUX (RFC2364)
Maximum Packet Length       Receive       Transmit       Peal         1500       1500       Encapsulation Mode       PPP over A int VCMUX (RFC2364)         Maximum Packet Length       PPP over ATM VCMUX (RFC2364)         Maximum Packet Length       PPP over ATM VCMUX (RFC2364)         Receive       Transmit       Peak Cell Rate (PCR)         Line Rate       1500
Restart your system for changes to take effect!

# **Monitoring Your ADSL Connection**

From your Control Panel, locate ADSL PCI Modem ADSL PCI icon and double-click on

it. The following window will be prompted.

ADSL	PCI Modem			×
Gen	eral			
E A	ADSL Line Informatio	n		
		6	0	
		ADSL Connec	ction Established	
	-ADSL Connection	Information		
	Bytes Received:	0	Bytes Transmitted:	0
	Receive Rate:	3488 kbits/s	Transmit Rate:	448 kbits/s
	Driver S/W Versio	n: 4.1.2.085.014 (i	0701)	Clear
			OK Canc	el Help

The **ADSL Line Information** indicates the status of your ADSL line connection.

Once the ADSL Line is established, the connection information will be displayed at the **ADSL Connection Information** field.

Click OK to close.

Modem

Alternatively, you may double-click the **ADSL PCI Modem icon (1997)** on your Windows system tray. The following window will be prompted.

ADSL Connected Bytes received: Bytes sent:	
Dytes serie.	Stop ADSL
Toolbox Advanced Monitoring Configurati	n Wizard

Your ADSL Line status and Bytes received/ sent are also indicated.

To reveal the **Toolbox** (as shown on your left), press <**Alt**><**A**>.

Select **Advanced Monitoring** for **receive and transmit rates** as shown on the window above.

# Uninstalling Your ADSL PCI Modem in Windows<sup>®</sup> Me / 98 / 98SE / 95 / 2000

- i) From your Windows taskbar, click **Start** > **Settings** > **Control Panel**. Doubleclick the **Add/Remove Programs** icon.
- ii) At the Add/Remove Programs Properties Window, from the Install/Uninstall tab, select ADSL PCI Modem and click Add/Remove... .
- iii) Follow closely to the instructions prompted to start the uninstallation.
- iv) Restart your system.

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