Quick Start ADSL Modm Card

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Congratulations!

You are about to accelerate into ADSL technology. Your new ADSL modem card is an internal Asymmetric Digital Subscriber Line (ADSL) PCI modem card, which

conveniently plugs into your computer system. The modem connects directly to your telephone line via a standard connector.

This guide is designed to walk you through installation of your ADSL Modem card in the easiest and quickest way possible. Please follow the instructions carefully.



Step 1 – Know your PC's Operating System

You will need to know the exact version of Microsoft Windows installed in your computer. If you do not know or are unsure, please proceed as follows to determine your version of the Microsoft Operating System.

On your desktop, right-click **My Computer**. Then select **Properties**. The version number of the Microsoft Windows Operating System installed in your computer will be





displayed on the General tab. Refer to the following table for more detailed information.

Windows OS	System Properties Description	Release (Microsoft Web)
W/j= 05 A	4 00 050 4	Windows 05 OSD 1
Win 95B	4.00.950B	Windows 95 OSR2
Win 98	4.10.1998	Window 98
Win 98SE	4.10.2222A 2nd Edition	Windows 98 2nd Edition
Win 2000	5.00.2195	Windows 2000
Win NT	4.00.1381	Windows NT 4.0

If you have questions regarding your PC system and the Microsoft Windows Operating System, please contact your original PC manufacturer or Microsoft for assistance.

Before Installing the ADSL PCI Modem Card, it is important to verify that the ADSL data port RJ-11 jack is configured so that the center two pins, pins 3 and 4, are used for ADSL data, otherwise the ADSL PCI modem card will not make a proper connection. If the ADSL

data port installation uses pins 2 and 5 for data, then a wiring converter will be required. Do not alter or remove a wiring converter if present. Consult with your ADSL service provider regarding a wiring converter or before attempting any wiring changes.

Step 2 - Determine your Connection settings

You need to know your PC systems **Windows OS** and **Internet Protocol** supplied by your ADSL service provider. Refer to the following chart for your **ADSL Driver**.

	Protocol Selection
RFC1483	≤ ≤Bridged Ethernet over ATM
RFC2364	≤ ≤Point-to-Point Protocol over ATM
RFC1577	K KClassical Internet Protocol over ATM
RFC2516	Service Servic

ADSL Driver	RFC1483	RFC2364	RFC1577	RFC2516
Selection				
Win 95A & 95B	1483w95	2364w95	1577w95	See Note 🗷
Win 98 & 98SE	1483w98	2364w98	1577w98	See Note 🗷
Win NT 4.0	1483nt4	2364nt4	1577nt4	See Note 🗷
Win 2000	1483w2k	2364w2k	1577w2k	See Note 🗷

Note *≤* : RFC2516 (Point-to-Point Protocol over Ethernet) is supported by third party developers. See the PPPoE driver supplement for detailed information and installation instructions.

Having determined the ADSL Driver you will be installing, you now need to gather the connection information supplied by your ADSL service provider.

VPI value:_____ VCI value:_____ Framing: ∞ VC/MUX ∞ LLC/SNAP Mode: ∞ ANSI T1.413 ∞ ITU G.lite ∞ ITU G.dmt



For RFC 1483 or 2516	For RFC 2364 or 1577
Host:	User Name:
Domain:	Password:
Gateway:	Host or IP Address:
IP Address:	
Subnet Mask:	
DNS or server address:	

Step 3 - Install the ADSL modem card

Caution: To avoid possible damage to your modem card, touch the metal chassis of your PC system to remove static charge from your person, and then remove your ADSL modem card from the protective anti-static bag.

- 1. Shut down your computer and switch the power off.
- 2. Unplug the power cord for your computer from the electrical outlet.
- 3. **Remove the cover** from your systems chassis (see your PC manufacturer's manual).
- 4. **Unscrew "slot cover bracket"** from an unused PCI (usually white in color) slot.
- 5. Gently and evenly insert the PCI modem card into your empty PCI slot.
- 6. Make sure the card is firmly seated, and then **secure the card with the bracket screw**.
- 7. **Replace the cover** of your computer system.
- 8. **Connect the ADSL/phone line** to the connector port on the modem card and plug the other end of the cable into your ADSL/phone service.

Step 4 – Install the drivers and make a connection

You will be installing drivers and then proceeding to make an Internet connection. This process requires you to enter in information as prompted by the Microsoft Installation Wizard.

NOTE: You may need the Microsoft Windows Operating System installation files (CAB files) to complete the installation. The CAB files are contained in the Microsoft's system CD-ROM. Some systems may have already installed the CAB files to the hard drive, but you should have the Microsoft Windows CD-ROM handy just in case.

Proceed now to the installation procedure for the Windows Operating System installed in your computer.

Windows 95A	Page 6
Windows 95B	Page 8
Windows 98, 98SE	Page 11
Windows 2000	Page 19
Windows NT - RFC 1483 or RFC 1577	Page 25
Windows NT - RFC 2364	Page 28

Windows 95A

After installing the ADSL modem card, plug the power cable back into the PC system and turn the power on.

Before you proceed to install drivers you will need to upgrade your Dial-Up Networking (DUN) application to version 1.3 or above. The Microsoft DUN is conveniently contained on your ADSL Driver CD-ROM.

- After restart, the Update Device Driver Wizard will detect the ADSL modem as a PCI Network Controller. CANCEL the New hardware found window.
- 2. At your desktop, click **Start**, and then select **Run**.
- The Run window appears. Insert the ADSL Driver CD, then click on Browse and proceed to locate the ADSL Driver 95 CD-ROM. Then locate and select the Msdun13.exe file. The Msdun13.exe appears in the Open box. Click OK.
- 4. The Microsoft Dial-Up Networking 1.3 window appears with the message This will install Microsoft Dial-Up Networking 1.3 for Windows 95. Do you wish to continue? Click Yes.
- 5. An End-User License Agreement will appear. To accept, click Yes.



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 Back in the Microsoft Dial-Up Networking 1.3 window. You will be asked: Do you want to restart your computer now? Click Yes.

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NOTE: You may need the Microsoft Windows Operating System installation files (CAB files) to complete the installation. The CAB files are contained in the Microsoft's system CD-ROM. Some systems may have already installed the CAB files to the hard drive, but you should have the CD-ROM handy just in case.

 After your computer reboots, the New Hardware Found window will detect the ADSL modem card as a PCI Network Controller. Select the Driver from disk provided by hardware manufacturer option. Click OK.

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- 8. Insert the **ADSL Driver** CD-ROM into your systems CD drive.
- The Install From Disk window appears. Click Browse to locate the driver on your CD-ROM for the protocol supported by your ADSL provider: 1483w95, 2364w95, or 1577w95 (The example uses "D" as the CD-ROM drive letter. Drive letters may vary.) Then click OK.

NOTE: During the installation process you may be asked to insert your Windows 95 CD. Insert the Windows 95 CD into the CD drive and click OK.

NOTE: If during the file copying process a file is reported as "not found" enter the path with the CD Drive letter and <u>:\Win95</u> (ex:D:/Win95).





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10. You must now set the ADSL configuration. Go to page 13.

Windows 95B

After installing the ADSL modem card, plug the power cable back into the PC system and turn the power on.

Before you proceed to install drivers you will need to upgrade your Dial-Up Networking (DUN) application to version 1.3 or above. The Microsoft DUN is conveniently contained on your ADSL Driver CD-ROM.

- After restart, the Update Device Driver Wizard will detect the ADSL modem card as a PCI Network Controller. CANCEL the New hardware found window.
- 2. At your desktop, click **Start**, and then select **Run**.
- The Run window appears. Insert the ADSL Driver CD, then click on Browse and proceed to locate the ADSL Driver 95 CD-ROM. Then locate and select the Msdun13.exe file. The Msdun13.exe appears in the Open box. Click OK.
- 4. The Microsoft Dial-Up Networking 1.3 window appears with the message This will install Microsoft Dial-Up Networking 1.3 for Windows 95. Do you wish to continue? Click Yes.
- 5. An **End-User License Agreement** will appear. To accept, click **Yes**.



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Networking 1.3 window. You will be asked Do you want to restart your computer now? Click Yes.

You may need the Microsoft Windows Operating System installation files (CAB files) to complete the installation. The CAB files are contained in the Microsoft's system CD - ROM. Some systems may have already installed the CAB files to the hard drive, but you should have the CD-ROM handy just in case.

- 7. After your computer reboots, the **Update Device Driver Wizard** will detect the ADSL modem card as a **PCI Network Controller**, click **Next**.
- 8. Insert the **ADSL Driver** CD-ROM into you systems CD drive.
- 9. The Update Device Driver Wizard will appear and indicate that "Windows was unable to locate a driver for this device". Click Other Locations.







- 10. The Select Other Location window appears. Click Browse to locate the driver on your CD-ROM for the protocol supported by your ADSL provider: 1483w95, 2364w95 or 1577w95 (The example uses "E" as the CD-ROM drive letter. Your drive may have a different letter.) Then click OK.
- 11. The Update Device Driver Wizard will then find the ITeX ADSL PCI NIC. Click Finish.



NOTE: During the installation process you may be asked to insert your Windows 95 CD-ROM. Insert the **Windows 95 CD** into the drive and click **OK**.

NOTE: During the installation process you may be asked to insert your Windows 95 CD-ROM. Insert the Win95 CD into the drive. Click OK.

NOTE: If during the file copying process a file is reported as "not found" enter the path (CD Drive letter) and <u>:\Win95</u> (ex. D:\Win95)



12. You must now set the ADSL configuration. Go to page 13.

Windows 98, 98SE

After installing the ADSL modem card, plug the power cable back into the PC system and turn the power on.

 The Add New Hardware Wizard window will automatically appear to indicate that a new PCI Network Controller has been found. Click Next.

- Still in the Add New Hardware Wizard. You will be asked "What do you want Windows to do?" Select the Search for the best driver for your device option, then click Next.
- 3. Insert the **ADSL Driver** CD into your systems CD-ROM drive.
- Select Specify a location and click Browse to locate the driver on your CP-ROM for the protocol supported by your ADSL provider: 1483w98 or 2364w98 or 1577w98 (The example uses "D" as the CD-ROM drive letter. Your drive may have a different letter.) Then click Next.



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 The Add New Hardware Wizard will appear and indicate the ITeX ADSL PCI NIC has been recognized and will install a new driver. Click Next.



- 6. If prompted to insert your Windows CD, do so at this time, then click **OK**.
- 7. Enter the [CD drive Letter] and then <u>:\Win98</u> (e.g: E:\Win98) and click OK.

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8. At the conclusion of the ADSL modem driver installation, the Add New Hardware Wizard window appears and displays your newly installed ITEX ADSL PCI NIC. Click Finish.



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9. The System Settings Change window appears. For the PC system to set up the ITeX Apollo 2 Drivers, a system Restart is required. Click Yes.

NOTE: After restarting the system, the **Diagnostic Tool** icon (See Appendix) is active and monitoring connectivity.

10. You must now set the ADSL configuration. Go to page 13.

WINDOWS 95/98

SETTING THE ADSL CONFIGURATION FOR RFC 1483/1577/2364

 After your PC has rebooted, right-click on the Mapi Icon, and select the Configuration option.

- The Configuration window appears. This is the Network Protocol and PVC settings section. Enter in the VPI, VCI, and Framing values supplied by your ADSL service provider.
- 3. In the Select ADSL Mode section, select the mode(s) recommended by your ADSL service provider. Click on the mode(s) required and then click on

NOTE: THE SERVICE MODE TYPE WILL BE ONE OF THE FOLLOWING:

≤ ANSI T1.413 Issue 2 ≤ ATU G.992.2 Annex A (G.lite) ≤ ATU G.992.1 Annex A (G.dm

- 4. The **PVC Setup** window appears. Click **Yes** to restart your PC system and to allow the new changes to take effect.
- You must now make an ADSL connection.
 Proceed to the section for your protocol.







Making an ADSL connection

RFC 1483 – Bridged Ethernet over ATM – 95/98 RFC 1577 - Classical Internet Protocol over ATM – 95/98

RFC1483Bridged Ethernet over ATM∠Go to page 14RFC1577Classical Internet Protocol over ATM∠Go to page 14RFC2364Point-to-Point Protocol over ATM∠Go to page 18

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

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2. The **Network** window appears. Select the **Configuration** tab, scroll the installed network component window and find **ITEX ADSL PCI NIC**.



Scroll the installed network component window and select TCP/IP ≤ ITeX ADSL PCI NIC. Then click the Properties button.

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4. The **TCP/IP Properties** window will appear. Select the **IP Address** tab and then select the **Specify an IP Address** option. Enter the **IP Address** and **Subnet Mask** settings supplied by your ADSL provider.

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- To setup a new gateway, select the Gateway tab, and then enter the setting in the New Gateway section. Click Add.
- 6. Select **DNS Configuration** tab. Select the **Enable DNS** option.

NOTE: You now need to have available the **Host**, **Domain** and **DNS** settings supplied by your ADSL service provider

PVIP Properties		2
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- 7. Enter your host name into **Host:** box.
- 8. Enter your domain name into **Domain:** box.
- 9. Enter DNS number into DNS Server Search Order box and click Add. If you have more than one DNS numbers, repeat this step.
- 10. After setting all the necessary TCP/IP properties, click **OK**.

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11. The Network window appears. Click OK.



12. The **System Setting Change** window appears. You will be asked if you want to restart your computer. Click **Yes**.

Congratulations, you are done. Your ADSL Internet connection is established!

Making an ADSL connection RFC 2364 - Point-to-Point Protocol over ATM – 95/98

 Double-click on the ITeX PPPoA icon that appears on your desktop.



2. The **Connect To** window appears. Enter the **User Name** and **Password** supplied by your Internet service provider (ISP). Then click **Connect**.

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 The Connecting to My Connection window appears. The message Logging on to network confirms a valid connecting process.

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4. The **Connection Established** window appears. Internet service is now established. Click **Close** and then the **Diagnostic tool** icon will appear on the task bar.



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Congratulations, you are done. Your ADSL Internet connection is established!

Windows 2000

After installing the ADSL modem card, plug the power cable back into the PC system and turn the power on.

 After installing the ADSL modem card, power on the PC system. After start-up, the Found New Hardware Wizard will appear. Click Next.



2. Still in the Found New Hardware Wizard,

select the **Search for a suitable device.** option. Click **Next**.



 Next you will be prompted for software drivers. Select Specify a location. Click Next.



 Insert the ADSL Driver CD into the systems CD-ROM drive. Click Browse to locate the driver on your CD-ROM for the protocol supported by your ADSL provider: 1483w2K or 2364w2K or 1577w2K (The example uses "D" as the CD-ROM drive letter. Your drive may have a different letter.) Click **OK**.

5. The Found New Hardware Wizard will then find the ITeX ADSL PCI NIC, click Next.





6. The **Digital Signature Not Found** window

appears. You will be asked; **Do you want** to continue installation? Click Yes.

7. The Found New Hardware Wizard will prompt that Windows has finished installing the software for this device. Click Finish.

NOTE: You may be asked if you want to restart your computer, if so click **Yes.** If you are not asked, you need to restart your computer manually at this time.

8. You must now set the ADSL configuration. Go to page 21.



WINDOWS 2000

SETTING THE ADSL CONFIGURATION FOR RFC 1483/1577/2364

 After your PC has rebooted, right-click on the Mapi Icon, and select the Configuration option.



- The Configuration window appears. This is the Network Protocol and PVC settings section. Enter in the VPI, VCI, and Framing values supplied by your ADSL service provider.
- In the Select ADSL Mode section, select the mode(s) recommended by your ADSL service provider. Click on the mode(s) required and then click on

NOTE: The service mode type will be one of the following:

≤ ANSI T1.413 Issue 2 ≤ ATU G.992.2 Annex A (G.lite) ≤ ATU G.992.1 Annex A (G.dmt)

4. The **PVC Setup** window appears. Click **Yes** to restart your PC system and to allow the new changes to take effect.





5. You must now make an ADSL connection. **Proceed to the section for your protocol.**

RFC1483	Bridged Ethernet over ATM
RFC1577	Classical Internet Protocol over ATM
RFC2364	Point-to-Point Protocol over ATM

Go to page 22 Go to page 22 Go to page 22 Go to page 24

Making an ADSL connection

RFC 1483 – Bridged Ethernet over ATM – 2000 RFC 1577 - Classical Internet Protocol over ATM – 2000

- 1. Double-click My Computer, Control Panel, and then Network and Dial-up Connections.
- The Network and Dial-up Connections window appears. Right-click on the Local Area Connection, and then click on properties.



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, enable Use the following IP address. The default settings for IP configurations will turn from gray to clear. Enter in the IP address, Subnet Mask, and Default Gateway supplied by your ADSL service provider. Click OK.

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5. The previous **General Tab** window appears. Click **OK**.





Congratulations, you are done. Your ADSL Internet connection is established!

6. The Network and Dial-up Connection window appears. CLOSE this window and your connection is complete.

Making an ADSL connection RFC 2364 - Point-to-Point Protocol over ATM – 2000

1. Double-click on the **ITeX PPPoA** icon that appears on your desktop.



 The Connect My Connection window will appear. Enter your User Name and Password supplied by your ADSL service provider. You are now ready to make a network connection. Click Dial.



3. The **Connection complete** window appears, click **OK**.



Congratulations, you are done. Your ADSL connection is established!

Windows NT4.0

RFC 1483 – Bridged Ethernet over ATM RFC 1577 - Classical Internet Protocol over ATM

- On your desktop, <u>double</u>-click My Computer, and then <u>double</u>-click Control Panel.
- 2. In the **Control Panel** window, doubleclick the **Network** icon. The **Network** window appears. Select the **Adapters** tab and then click **Add**.



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- 3. The Select Network Adapter window appears. Click Have Disk.
- 4. Insert **ADSL Driver** CD-ROM into your systems CD drive.

- The Insert Disk window appears. Click Browse to locate the driver on your CD-ROM for the protocol supported by your ADSL provider: 1483NT4 or 1577NT4 (The example uses "d" as the CD-ROM drive letter. Your drive may have a different letter.) Click OK.
- 6. The Select OEM Option window will find the ITeX ADSL PCI NIC, Click OK.



7. The Network window will appear. Click the Adapters tab to verify that the ITEX ADSL PC NIC has been found. Click on the Protocols tab and verify that the ADSL Management and Monitor Interface is present.

> **NOTE:** To review the Network window properties at any time, rightclick the **Network Neighborhood** icon and select **Properties**.

NOTE: If no previous network devices have been installed, then the Network Neighborhood icon will not be present on your desktop. To open the Network window, double-click **My Computer** then **Control Panel** then **Network**.

8. The Microsoft TCP/IP Properties window appears. Enter in the IP Address, Subnet Mask and Default Gateway supplied by your ADSL service provider. Click OK.

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9. The Network Settings Change window appears. You must now re-start your computer for the settings to take effect. Click Yes.

Notwark	Sectings Charge
A	You must shall down and restart your computer before the new settings will take effect.
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10. You must now set the ADSL configuration. Go to page 27.

WINDOWS NT 4.0 SETTING THE ADSL CONFIGURATION FOR RFC 1483 OR RFC 1577

- 1. After your PC has rebooted, right-click on the **Mapi Icon**, and select the **Configuration** option.
- The Configuration window appears. This is the Network Protocol and PVC settings section. Enter in the VPI, VCI, and Framing values supplied by your ADSL service provider.
- 3. In the **Select ADSL Mode** section, select the mode(s) recommended by your ADSL service provider. Click on the mode(s) required and then click on

NOTE: The service mode type will be one of the following:

ی ANSI T1.413 Issue 2 مالا G.992.2 Annex A (G.lite) مالا G.992.1 Annex A (G.dmt)

4. The **PVC Setup** window appears. Click **Yes** to restart your PC system and to allow the new changes to take affect



Setting

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ITU G 992.2 Annex A (G Be)

TU 6.992.1 Annex & IS. dot1

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5. Now you must create a Dial-up Connection. Please go to page 32.



Windows NT4.0

RFC 2364 - Point to Point Protocol over ATM

- 1. On your desktop, <u>double</u>-click **My Computer**, and then <u>double</u>-click **Control Panel**.
- 2. In the **Control Panel** window, doubleclick the **Network** icon. The **Network** window appears. Select the **Adapters** tab and then click **Add**.

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- 3. The Select Network Adapter window appears. Click Have Disk.
- 4. Insert the **ADSL Driver** CD-ROM into your systems CD drive.
- 5. The Insert Disk window appears. Click Browse to locate the driver on your CD-ROM for the protocol supported by your ADSL provider: 2364NT4 (The example uses "d" as the CD-ROM drive letter. Your drive may have a different letter.) Click OK.
- 6. The Select OEM Option window will find the ITeX ADSL PCI NIC, Click OK.

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- 7. The **Setup Message** window appears. Click **OK**.
- The Windows NT Setup window appears. Insert your NT4.0 CD-ROM into the PC system CD drive, and type in "D:\i386" Click Continue.
- The Add RAS Device window appears. Click on the "Scroll arrow" to locate ISDN1-itexwana. Then click OK.

- 10. The **Remote Access Setup** window appears. Click **Continue**.
- 11. The Network window will appear. Click the Adapters tab to verify that the ITeX ADSL PC NIC has been found. Click on the Protocols tab and verify that the ADSL Management and Monitor Interface is present. Click on the Services tab to verify that the Remote Access Service is present. Then click Close.

NOTE: To review the Network window properties at any time, right-click the **Network Neighborhood** icon and select **Properties**.

NOTE: If no previous network devices



 Parate-Access Services (PAC) will now to installed. Please configura fra 1 is RAC setup to smaller you to use RAC over teachings.

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have been installed, then the Network Neighborhood icon will not be present on your desktop. To open the Network window, double-click **My Computer** then **Control Panel** then **Network**.

12. The Network Settings Change window appears. You must now re-start your computer for the settings to take effect. Click Yes.

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13. You must now set the ADSL configuration for RFC 2364. Go to page 31.

WINDOWS NT 4.0

SETTING THE ADSL CONFIGURATION FOR RFC 2364

- After your PC has rebooted, right-click on the Mapi Icon, and select the Configuration option.
- The Configuration window appears. This is the Network Protocol and PVC settings section. Enter in the VPI, VCI, and Framing values supplied by your ADSL service provider.
- 3. In the Select ADSL Mode section, select the mode(s) recommended by your ADSL service provider. Click on the mode(s) required and then click on

NOTE: The service mode type will be one of the following:

طANSI T1.413 Issue 2 العطالي G.992.2 Annex A (G.lite) العطالي G.992.1 Annex A (G.dmt)

4. The **PVC Setup** window appears. Click **Yes** to restart your PC system and to allow the new changes to take effect.





5. You must now create a Dial-up Network Connection. Please go to page 32.

WINDOWS NT4.0 CREATING A DIAL-UP NETWORK CONNECTION

2. Double-click on the **ITeX PPPoA** icon that appears on your desktop.



- The Dial-Up Networking window appears and prompts for the phone number of the dial-up server. Unless instructed to enter a phone number by the ADSL service provider, enter zero "0". Click Dial.
- The Connect to MyDialUpServer window appears. Enter the User name, Password and Domain supplied by your ADSL service provider. Click OK.

NOTE: If this screen persists and a connection logon error is reported, confirm that the correct User name and Password are entered and try the connection again. Also verify that the connection address is correct.

4. The **Connection Complete** window is displayed at the completion of a successful Dial-Up logon. Choose a display behavior and click **OK** to close.



ionnect to l	dyDialUpServer 🛛 📓
Enter a uper remote netwo	name and password with access to the ork domain
∐ser name:	Administrator
Bassword	
Domain	ſ



Congratulations, you are done. Your ADSL Internet connection is established!

Editing Your Service Connection

Service Connection

- 1. To view or edit the ADSL connection service address, right-click the **Diagnostic Tool** icon (located on the Taskbar), and select the **Configuration** option.
- 2. The **PVC Setup** (Permanent Virtual Connection) window displays the connection service address. Click **Close** to exit window.
- 3. To edit the **connection service address**, select and enter the VPI and VCI address in the field shown and click **PVC Setting**.
- 4. To accept a **Connection Address** that has been changed (**restart** the PC System), click **Yes**.

NOTE: A PC system restart will begin once the connection address change is accepted.

IP Configuration

- This section includes the IP configuration specifics for Windows NT4.0. The NT 4.0 windows are slightly different from those of Windows 95 /98. Other than minor screen differences, the process for editing the IP address settings is the same for Windows NT 4.0 and Windows 95/98.
- 2. At your desktop, double-click **My Computer**, then double-click **Control Panel** to view the contents of the control panel. In the **Control Panel** window, double-click the **Network** icon.

Note: The Network window shortcut is a right-click on the **Network Neighborhood** icon on your desktop, and then a left-click on **Properties**.

- 3. Select the **Protocols** tab of the network window. Select **TCP/IP** Protocol and click **Properties**.
- 4. Select the **IP address** option and note that the IP Address and Subnet Mask regions will turn from **gray** to **active**.
- 5. Enter the IP Address (e.g. 192.168.4.39) and Subnet mask (e.g. 255.255.255.0).
- 6. Enter the **Default Gateway** in this window, and then enter the **Host Name** and **Domain.**

NOTE: Please refer to your ADSL service provider. To enter the Domain search (DNS) entries, click **Add**, then enter the address. Click **Add** to save the address. Repeat the process for additional DNS entries. Click **OK** to update the changes.

Removing Drivers

Windows 95, 98 WINDOWS NT4.0 WINDOWS 2000

- 1. On the desktop, click the **START Menu** on the **Task Bar.**
- 2. Select **Programs**. The system window appears.
- 3. Select the ITeX Tab, and then click on the Un-Installer Tab.

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Note: For W95-98-NT4, an Uninstall Finished windows message appears. Click Yes to restart your system and confirm changes.

Uninsta	ll Finished		×
٩	Please re Click "Ye	boot system to s'' to restart sys	finish. stem.
	Yes	No	

Diagnostic Tools

The diagnostic tool icon allows the user to monitor the ADSL connectivity, setup the service connection address, and run diagnostic tests. The Diagnostic Tools icon is displayed on the task bar as shown. By positioning the mouse cursor over the icon, the upstream and downstream rates are displayed.



The Diagnostic Tool icon consists of two lights side by side. The left light indicates data is being transmitted whereas the right light indicates data is being received. The state of the connection can be determined as follows:

Color Code	Description
Red, Red	No ADSL connection and No ADSL handshaking. Check your cable
	connections.
Black,	ADSL handshaking – Connection not established. Precursor to
Yellow or	establishing an ADSL connecting.
Yellow/Blac	
Black,	ADSL connection established – no data traffic or idle connection
Black,	ADSL connection established – NIC is receiving data (TX/off,
Green,	ADSL connection established – NIC is transmitting data (TX/on,
Green,	ADSL connection established – NIC is transmitting and receiving data
Green	(TX/on, RX/on)
?	NIC is disconnected or a driver problem exists.

On the **Diagnostic Tool** icon, located on the right hand side of the status bar, right-click the icon to display the menu, then click **Open**. **The ADSL Diagnostic Tool** window appears on your desktop. The four tabs of the Diagnostic Tools are **ADSL Status, Diagnostic, ADSL Statistics** and **Configuration**.

ADSL Status window displays the current state of the ADSL connection, including the current ADSL State, ADSL protocol in use, and the Net Data Rates

for upstream and downstream data.

NOTE: ADSL protocols supported by the ADSL drivers are T1.413, G.dmt and G.lite. The protocol must be supported also by the ADSL equipment located at the central office.

ADSL Statistic window keeps tabs on errors that might affect overall system performance. The counts are reset whenever the PC system is restarted.



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- ADSL Connection Info	ratio
ADSL SLARE TEAM	nected
Protocol (T1.413)	1920-2
Tustetal / Receive Ra	re Migol Data Rote
Updraam.	§543
	Local Control of Contr

Re-training Count tracks the number of ADSL connections performed. Due to unexpected line condition changes, the drivers can re-train the connection causing the **Re-training Count** total to increment. The Diagnostic Tool icon will flash yellow while reconnecting.

ADSL implements Reed Solomon (RS) error checking:

FEC Count tracks the forward error correction count.

CRC Count tracks the accuracy of correcting data errors over each 17msec.

ATM HEC Count (header error check) errors are recorded as an indication of ATM packet accuracy.

As a measure of packet transfer performance, the **Packet Errors** are counted and tracked against the

Click Run Diagnostics to run the diagnostic

program that will test PC functionality and report the status. A warning message pops up that the ADSL service will disconnect before performing the diagnostic test. If connected to the Internet at this time, disconnect any Dial-up sessions. Click **Yes** to begin the **diagnostic program** or click **No** to exit **diagnostic program**. The **diagnostic program** performs a brief hardware check and displays the hardware status

The **Diagnostic window** is used to verify the ADSL modem card functionality. Running the **Diagnostic** program will disconnect the NIC from the ADSL line. Close all Dial-up sessions and close all files before running the Diagnostic program. Product Information (e.g. driver revisions) is displayed by clicking the **Product Info** tab.

Product Information lists the versions of the Diagnostic Tools and the driver version. The DLL version describes the software being used by both the drivers and Diagnostic Tool software.

SL Status Disgnostic ADSL S	atistic
ADSL Information Re-training Count REC Count CRC Count ATM HET Count	2 10 10
ATM Receive Side Statistics Good Received Packats Biad Received Packats	
ATM Transmission-Side State Transmitted Packets	hor D



*** Product Information ***	1
ADGL loon Mapi	
Application Version: 2.3	
DLL Version: 2.4	
Driver Version 212	
d C	<u>_</u>

Connector Pin-out

The ADSL modem card is equipped with a RJ-11 jack for connection to the ADSL data port. The center two pins, pins 2 and 3, are used for ADSL data. For the card to make a proper ADSL connection, the installed ADSL data port should also use pins 2 and 3 for data. If the ADSL data port installation uses pins 1 and 4 for data, then a wiring converter will be required. Do not alter or remove the wiring converter if present. Consult with your ADSL provider before attempting any wiring changes.



LED	Status	Signals	Description
Green LED on	PWR	On 0.5s, Off 0.5s	Modem initialized, idle
tom			mode (disconnect)
		On	Power Supply OK
Green LED on Top	SYNC	On 0.25s, Off 0.25s	Modem Connecting
		(On 0.25s, Off 0.25s) x 2, Off 0.5s	Modem Connected
Yellow LED on Top	DATA	On TX or RX	ATM data transmission
		smission,	(in showtime status)
		Off no data	
Red LED on Bottom	ERR	On 0.25s on any CRC	ATM data transmission
		r	(in showtime status)
All 4 LED		All On	Driver not installed or

LED functions for the Apollo 3

System Requirements & Compliance Certification

System Requirements

- ! ! IBM PC/AT or compatible
- ! ! Pentium 100Mhz or faster
- !! 30Mbytes available hard disk space or more
- ! ! 2x CD-ROM drive or better
- ! ! 32Mbyte available system memory or more

Power Requirements

!! 0.75A Max @ +5V ? 5%, 0.1A max @ ? 12V, ? 5%

Environmental Requirements

- ! ! Operating Temperature: 0 ?C to 70?C with airflow
- ! ! Non-operating Temperature: -10 ?C to 85 ?C
- ! ! Operating Humidity: 10% to 90% non-condensing
- ! ! Non-operating storage humidity: 5% to 95% non-condensing

Compliance Certification

- ! ! UL 1950
- ! ! CE approved
- ! FCC Part 15 Class B

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FCC Statement

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 equipment 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 the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measure:

- *∝ ∝*Reorient or relocated the receiving antenna.
- ≤ ≤Increase the separation between the equipment and receiver.
- Connect the equipment into a different outlet circuit from than the receiver.
 Consult an experienced radio/TV technician for help.
- **CAUTION:** Any changes of modifications not expressly approved by the grantee of this device could void the users authority to operate the equipment.