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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC 7003-PCI. You'll find the answers to all your questions on the SMC 7003-PCI in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SMC 7003-PCI
User guide SMC 7003-PCI
Operating instructions SMC 7003-PCI
Instructions for use SMC 7003-PCI
Instruction manual SMC 7003-PCI

DESCRIPTION OF HARDWARE

DESCRIPTION OF HARDWARE

The SMC7003-PCI is a cost effective, controller less ADSL solution that requires minimal external components. (Only one external line driver is needed in the analog front-end circuit). The SMC7003-PCI achieves transmission rates of up to 8Mbps downstream and 768Kbps upstream over existing copper wire. This rate is more than 140 times faster than a 56K analog modem. The SMC7003-PCI designed to meet ANSI T1.413 Issue 2, ITU G.dmt and G.lite requirements with both splitter and splitterless operations. In addition, the SMC7003-PCI is interoperable with all major "central office" DSLAMs. It's software offers maximum implementation flexibility, management and diagnosis capabilities.

Features

- Compliant with ANSI T1.413 i2, ITU G.992.1 (G.dmt) and G.992.2 (G.lite) and G.994.1 (G.hs) in ADSL layer.
- Supports PPP RFC2364 (PPPoA), RFC2516, IP RFC1483 and IP RFC1577 over ATM.
- Data rates up to 8Mbps downstream and 768Kbps upstream.
- Compliant with Microsoft WHQL Specification.
- Supports Win 95, 98, 2000, Millennium and NT4.0.
- Standard Windows Wizard driver installation.

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Manual abstract:

@@In addition, the SMC7003-PCI is interoperable with all major "central office" DSLAMs. Its software offers maximum implementation flexibility, management and diagnosis capabilities. Features 1 Compliant with ANSI T1.413 i2, ITU G.992.1 (G.dmt) and G.992.2 (G.lite) and G.994.1 (G.hs) in ADSL layer. 1 Supports PPP RFC2364 (PPPoA), RFC2516, IP RFC1483 and IP RFC1577 over ATM. Data rates up to 8Mbps downstream and 768Kbps upstream.

Compliant with Microsoft WHQL Specification. Supports Win 95, 98, 2000, Millennium and NT4.0. Standard Windows Wizard driver installation. 1 1 1 1 1

DESCRIPTION OF HARDWARE Connector Pin-out The SMC7003-PCI 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. Jumper Pin Configuration Guide **ATTENTION!!** Before installing the SMC7003-PCI: It is important to verify that the ADSL d port RJ-11 jack is configured so that the ata center two pins, pins 2 and 3, are used for ADSL data, otherwise the SMC7003-PCI will not make a proper connection. Your SMC7003-PCI features pin jumpers that enable the user to set the configuration to make the proper connection. The default setting of the SMC7003-PCI is set to 2 and 3. If the ADSL data port installation uses pins 1 and 4 for data, then the jumper settings on your board will need to be reconfigured. To do this, orient your board per the diagram below (the RJ-11 connector should be facing towards you) and simply lift the jumper off of the pin setting for 2 and 3, and place it onto the pin setting for 1 and 2, which your ADSL modem utilizes.

1. The standard jumper configuration utilizes center pins 2 and 3 as shown above: 2. If the alternative configuration for outer pins 1 and 4 is required, simply move the jumper pins to the right, as shown below: 2 **INSTALLING THE SMC7003-PCI 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

Win 95A Win 95B Win 98 Win 98SE Win 2000 Win NT System Properties Description 4.00.
950A 4.00.950B 4.10.1998 4.

10.2222A 2nd Edition 5.00.2195 4.00.

1381 Release (Microsoft Web) Windows 95 OSR1 Windows 95 OSR2 Window 98 Windows 98 2nd Edition Windows 2000 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 SMC7003-PCI, 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 SMC7003-PCI 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. 3 **INSTALLING THE SMC7003-PCI 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 RFC2364 RFC1577 RFC2516 ð Bridged Ethernet over ATM ð Point-to-Point Protocol over ATM ð Classical Internet Protocol over ATM ð Point-to-Point Protocol over Ethernet ADSL Driver Selection Win 95A & 95B Win 98 & 98SE Win NT 4.0 Win 2000 Win Me RFC1483 1483w95 1483w98 1483nt4 1483w2k 1483wMe RFC2364 2364w95 2364w98 2364nt4 2364w2k 2364wMe RFC1577 1577w95 1577w98 1577nt4 1577w2k 1577wMe RFC2516 See Note@ See Note@ See Note@ See Note@ 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 de termined 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: q VC/MUX q LLC/SNAP Mode: q ANSI T1.413 q ITU G.lite q ITU G.dmt For RFC 1483 or 2516 For RFC 2364 or 1577 Host: Domain: Gateway: IP Address: Subnet Mask: DNS or server address: User Name: Password: Host or IP Address: 4 **INSTALLING THE SMC7003-PCI STEP 3 INSTALL THE SMC7003-PCI** Caution: To avoid possible damage to your SMC7003-PCI, touch the metal chassis of your PC system to remove static charge from your person, and then remove your SMC7003-PCI from the protective anti-static bag. 1. 2. Shut down your computer and switch the power off. 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. 8.

Replace the cover of your computer system. 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. 5 **INSTALLING THE SMC7003-PCI 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 7 Windows 95B -----Page 9

Windows 98/98SE -----Page 11 Windows 2000

-----Page 18 Windows NT - RFC 1483 or RFC 1577 -----Page 24

Windows NT - RFC 2364 -----Page 27 Windows Me

-----Page 31 6 **INSTALLING THE SMC7003-PCI** Windows 95A After installing the SMC7003-PCI, plug the power cable back into the PC system and turn the power on.



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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. 1. 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. 3. The Run window appears. Insert the SMC Universal 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 O K.

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

7 INSTALLING THE SMC7003-PCI 7. After your computer reboots, the New Hardware Found window will detect the SMC7003-PCI as a PCI Network Controller. Select the Driver from disk provided by hardware manufacturer option. Click O K. 8. Insert the SMC Universal CD into your systems CD drive. 9. 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 O K. 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 O K. NOTE: If during the file copying process a file is reported as "not found" enter the path with the CD Drive letter an d : \Win95 (ex:D:\Win95). 10. You must now set the ADSL configuration. Go to page 13. 8 INSTALLING THE SMC7003-PCI WINDOWS 95B After installing the SMC7003-PCI, 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. 1. After restart, the Update Device Driver Wizard will detect the SMC7003-PCI as a PCI Network Controller. CANCEL the New hardware found window. 2. At your desktop, click Start, and then select Run. 3. The Run window appears. Insert the SMC Universal 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 O K. 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. 6. Back in the Microsoft Dial-Up 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. 9 INSTALLING THE SMC7003-PCI 7.

After your computer reboots, the Update Device Driver Wizard will detect the SMC7003-PCI as a PCI Network Controller, click Next. 8. Insert the SMC Universal CD 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 O K. 11. The Update Device Driver Wizard will then find the SMC 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 O K. NOTE: During the installation process you may be asked to insert your Windows 95 CD-ROM. Insert the Win95 CD into the drive. Click O K. NOTE: If during the file copying process OK.

15 INSTALLING THE SMC7003-PCI 11. The Network window appears. Click O K. 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! 16 Making an ADSL RFC 2364 - Point-to-Point Protocol over ATM 95/98 connection 1. Double- click on the SMCA PPPoA icon that appears on your desktop.

INSTALLING THE SMC7003-PCI 2. The Connect To window appears. Enter the User Name and Password supplied by your Internet service provider (ISP). Then click Connect. 3. The Connecting to My Connection window appears. The message Logging on to network confirms a valid connecting process. 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. Congratulations, you are done. Your ADSL Internet connection is established! 17 INSTALLING THE SMC7003-PCI WINDOWS 2000 After installing the S MC7003-PCI, plug the power cable back into the PC system and turn the power on. 1. After installing the SMC7003-PCI, 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 . 3. Next you will be prompted for software drivers.

Select Specify a location. Click Next. 4. Insert the SMC Universal 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 O K. 5. The Found New Hardware Wizard will then find the SMC ADSL PCI NIC, click Next. 18 INSTALLING THE SMC7003-PCI 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.



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8. You must now set the ADSL configuration. Go to page 20. 19 INSTALLING THE SMC7003-PCI WINDOWS 2000 SETTING THE ADSL CONFIGURATION FOR RFC 1483/1577/2364 1. After your PC has rebooted, right-click on the Mapi Icon, and select the Configuration option. 2. 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 Settings . NOTE: The service mode type will be one of the following: q q q ANSI T1.

413 Issue 2 ITU G.992.2 Annex A (G.lite) ITU 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 5. You must now make an ADSL connection. Proceed to the section for your protocol. RFC1483 RFC1577 RFC2364 Bridged Ethernet over ATM Classical Internet Protocol over ATM Point -to-Point Protocol over ATM ð ð ð Go to page 22 Go to page 22 Go to page 24 20 INSTALLING THE SMC7003-PCI 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. 2.

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 O K. 21 INSTALLING THE SMC7003-PCI 5. The previous General Tab window appears. Click O K. 6.

The Network and Dial-up Connection window appears. CLOSE this window and your connection is complete. Congratulations, you are done. Your ADSL Internet connection is established! 22 INSTALLING THE SMC7003-PCI Making an ADSL connection RFC 2364 - Point-to-Point Protocol over ATM 2000 1. Double-click on the SMCA PPPoA icon that appears on your desktop.

2. 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 O K. 23 INSTALLING THE SMC7003-PCI Windows NT4.0 RFC 1483 Bridged Ethernet over ATM RFC 1577 - CLASSICAL INTERNET PROTOCOL OVER ATM 1. On your desktop, double-click My Computer, and then double-click Control Panel .

2. In the Control Panel window, double-click the Network icon. The Network window appears. Select the Adapters tab and then click Add. 3. 4. The Select Network Adapter window appears. Click Have Disk . Insert SMC Universal CD into your systems CD drive. 5. The Insert Disk window appears. @@@@The Network window will appear. @@@@Click O K. 9. The Network Settings Change window appears.

You must now re-start your computer for the settings to take effect. Click Yes. 10. You must now set the ADSL configuration. @@This is the Network Protocol and PVC settings section.

@@@@@The Network window appears. @@@@Click O K. 8. The Windows NT Setup window appears. @@Click on the "Scroll arrow" to locate ISDN1-SMCAwana. Then click O K. 10. The Remote Access Setup window appears. Click Continue. 11.

The Network window will appear. @@@@Then cl ick Close. @@@@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. 13. You must now set the ADSL Configuration for RFC 2364. Go to page 30.

28 INSTALLING THE SMC7003-PCI WINDOWS NT 4.0 Setting the adsl configuration for RFC 2364 1. After your PC has rebooted, right-click on the Mapi Icon, and select the Configuration option. 2. The Configuration window appears.

This is the Network Protocol and PVC settings section. @@Click on the mode(s) required and then click on Settings. NOTE: The service mode type will be one of the following: q q q ANSI T1.413 Issue 2 ITU G.992.

2 Annex A (G.lite) ITU G.992.1 Annex A (G.dmt) 29 INSTALLING THE SMC7003-PCI Windows NT4.0 CREATING A DIAL-UP NETWORK CONNECTION 1. Double- click on the SMCA PPPoA icon that appears on your desktop. 2. 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. 3. The Connect to MyDialUpServer window appears. Enter the User name, Password and Domain supplied by your ADSL service provider. Click O K. 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 O K to close.

Congratulations, you are done. Your ADSL Internet connection is established! 30 INSTALLING THE SMC7003-PCI Windows MILLENNIUM NOTE: After installing the SMC7003-PCI, plug the power cable back into the PC system and turn the power on. Insert the driver CD upon restart. 1. The Add New Hardware Wizard window will automatically appear to indicate that a new PCI Network Controller has been found.

Select the Specify the location of the driver option. Click Next. 2. The Install From Disk window appears. Click the scroll arrow to locate the driver on your CD -ROM for the protocol supported by your ADSL provider: 1483wME, 2364wME, or 1577wME (The example uses "E" as the CD -ROM drive letter. Drive letters may vary.) Then click O K. 3. At the conclusion of the driver installation, the Add New Hardware Wizard window appears and displays your newly installed SMC ADSL PCI NIC . Click Finish. 4. The System Setting Change window appears. Click Yes to restart your PC system and to allow the new changes to take effect. 5. You must now set the ADSL configuration.

Go to page 32. 31 INSTALLING THE SMC7003-PCI WINDOWS MILLENNIUM SETTING THE ADSL CON FIGURATION FOR RFC 1 483/1577/2364 1. After your PC has rebooted, right-click on the ADSL utilities icon and select the Configuration option. 2. The Configuration window appears. This is the Network Protocol and PVC settings section. @@Click on the mode(s) required and then click on Settings. NOTE: The service mode type will be one of the following: ANSI T1.413 Issue 2 ITU G.992.

2 Annex A (G.lite) ITU G.

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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 ð Go to page 3 Go to page 3 Go to page 5 RFC1577 Classical Internet Protocol over ATM ð RFC2364 Point-to-Point Protocol over ATM ð 32 INSTALLING THE SMC7003-PCI MAKING AN ADSL CONNECTION RFC 1483- BRIDGED ETHERNET OVER ATM- WINDOWS ME RFC 1577- CLASSICAL INTERNET PROTOCOL OVER ATM- WINDOWS ME 1. From the Start menu on the tool bar, select Settings, Control Panel, and then double-click on the Network icon. 2. Scroll installed network component window and select TCP/IP à SMC ADSL PCI NIC. Now click the Properties button. 3. 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 service provider. 33 INSTALLING THE SMC7003-PCI 4.

To setup a new gateway, select the Gateway tab, and then enter the setting in the New Gateway section. Click Add. 5. Select the DNS Configuration tab. Then select the Enable DNS option. NOTE: You now need to have available the Host, Domain and DNS settings supplied by your ADSL service provider. 7. 8.

Enter your name into the Host: box. Enter your domain name into the Domain: box.

9. Enter the DNS number into the DNS Server Search Order box, and then click Add. If you have more than one DNS number, repeat this step. 10. After setting all the necessary TCP/IP properties, click OK.

11. The Network window appears. Click O K. 12. The System Setting Change window appears.

Click Yes to restart your PC to allow the changes to take effect. Congratulations, you are done. Your ADSL Internet connection is established! 34 INSTALLING THE SMC7003-PCI MAKING AN ADSL CONNECTION RFC 2364- Point to Point Protocol over ATM -Windows Me 1. Double-click on the SMC PPPoA icon that appears on your desktop. SMC PPPoA 2. The Connect To window appears. Enter the User Name and Password supplied by your internet service provider (ISP). Then click Connect . 3. The Connecting to My Connection window appears.

The message Logging on to network confirms a valid connecting process. 4. The Connection Established window appears. Internet service is now established. Click Close. Now the Diagnostic Tool icon will appear on the task bar. Congratulations, you are done. Your ADSL Internet connection is established! 35 INSTALLING THE SMC7003-PCI 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 w begin once the connection address change is accepted. ill IP Configuration 1. 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. 4.

Select the Protocols tab of the network window. Select T CP/IP Protocol and click Properties. Select the IP address option and note that the IP Address and Subnet Mask regions will turn from gray to active . 5. 6. Enter the IP Address (e.g. 192.168.4.39) and Subnet mask (e.g. 255.255.255.

0). 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 O K to update the changes. 36 INSTALLING THE SMC7003-PCI Removing Drivers Windows 95/98/NT4.0/2000/Me 1. On the desktop, click the START Menu on the Task Bar. 2. 3. Select Programs. The system window appears. Select the SMC Tab, and then click on the Un-Installer Tab.

Note: For W95-98-NT4, an Uninstall Finished windows message appears. 37 INSTALLING THE SMC7003-PCI 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. Maximum receiving rate Maximum transfer rate 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 Red, Red Black, Yellow or Yellow/Black flashing Black, Black Black, Green Green, Black Green, Green Description No ADSL connection and No ADSL handshaking. Check your cable connections. ADSL handshaking Connection not established. Precursor to establishing an ADSL connecting.

ADSL connection established no data traffic or idle connection ADSL connection established NIC is receiving data RX/on) (TX/off, ADSL connection established NIC is transmitting data (TX/on, RX/off) ADSL connection established NIC is transmitting and receiving data (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. 38 INSTALLING THE SMC7003-PCI Re-training Count tracks the number of ADSL connections performed.



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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. @@@@ 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 SMC7003-PCI 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. 39 TROUBLESHOOTING Trouble Shooting If you have completed the SMC7003-PCI installation procedures and your ADSL connection is not operational, then refer to the following guidelines for assistance in getting your ADSL modem connection up and running. ing IS THERE A DIAGNOSTIC ICON ON THE TASKBAR ? üTry Restarting the PC system.

üAre the correct drivers installed for the Operating system used? üPoint-to-Point - If system OS is Windows 95, is the DUN upgraded v1.3? üHave you deleted the drivers and tried the installation again? Is the NIC achieving ADSL connection? üTry using the Diagnostic Tools Connect option. üIs the cable installed between the SMC7003-PCI and the ADSL service? üTry Restarting the PC system. üHas any cabling adapter or wiring converter been removed? Is the NIC constantly trying to make a connection with blinking yellow panels ? üSelect Disconnect from the Diagnostic Tools then try to reconnect. üRestart the PC system and try to reconnect. üExamine the RJ-11 connectors and cable for any deterioration. üHas the wiring for your ADSL service been altered recently? üDoes condition change with time of day? (a possible problem with line noise) üAre appliances near the PC system introducing noise into your ADSL service? üPower down the PC system and re-seat the SMC7003-PCI. Is the NIC achieving ADSL connection - but you can't reach the Internet? üIs the service connection address correct? üBridged Ethernet Are the TCP/IP, Gateway and DNS addresses correct (refer to your ADSL or ISP provider documentation) üPoint-to-Point For Windows 95 is the Dial-Up Network Upgrade v1.3 installed? üBrowser configured correctly check your browser documentation. How can I determine the TCP/IP address for Point-to-Point? For Windows 95/98, run the program Ipconfig from the DOS prompt (e.g. C:\Windows\IPCONFIG). Must TCP/IP be loaded for both Point-to-Point and Bridged Ethernet protocols? Yes. Please carry out the TCP/IP installation procedure before loading the driver. Driver installation resulted in errors or warnings, and you can't connect. üPerform the driver removal procedure. üVerify which version of Microsoft Windows is loaded in the PC system. üPerform the driver removal procedure üFor Point-to-Point Reload Dial-Up Network upgrade 1.3 üInstall the driver again. 40 SPECIFICATIONS SPECIFICATIONS SMC SMC7003-PCI ADSL Compatibility ANSI T1.

413 Issue 2 ITU-T G.992.1 (G.DMT): Downstream data rate up to 8Mbps Upstream data rate up to 1Mbps ITU-T G.992.2 (G.Lite): Downstream data rate up to 1.5Mbps Upstream data rate up to 512Mbps Rate adaptive modem at 32Kbps steps ATM Support Full ATM protocol stacks implementation over ADSL Including ATM TC layer ATM layer with traffic shaping AAL layer (AAL5&SAR) Ethernet over ATM (RFC-1483) PPP over ATM (RFC -2364) IP over ATM (RFC-1577) PPP over Ethernet (RFC-2516) (option) ATM Forum UNI 3.1/4.0 PVC Support VC-based and LLC multiplexing Support up to 16VCs Temperature Operating: 32 ° to 122°F (0° to 50°C) Storage: -40° to 158°F (-40° to 70°C) Humidity, non-condensing 5% to 95% Standards IEEE 802.3, 802.3u, 802.3x 41 SPECIFICATIONS EMC/Safety Compliances EMI: EN50081-1/1992->EN55022/1998, EN61000-3-2/1995, EN61000-3-3/1995 EMS: EN50082-1/1997 -> EN61000-4-2/1995, EN61000-4-3/1995, EN61000-4-4/1995 EN60950:1992/A3:1995/A4:1997, EN41003:1993 LVD: Warranty Limited Lifetime 42 .



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