3Com®
10/100 LAN PC Card

http://www.3com.com/
http://www.3com.com/productreg

Published October 2000

3Com Corporation
5400 Bayfront Plaza
Santa Clara, California
95052-8145

Copyright © 2000 3Com Corporation. All rights reserved. No part of this documentation may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from 3Com Corporation.

3Com Corporation reserves the right to revise this documentation and to make changes in content from time to time without obligation on the part of 3Com Corporation to provide notification of such revision or change.

3Com Corporation provides this documentation without warranty, term, or condition of any kind, either implied or expressed, including, but not limited to, the implied warranties, terms or conditions of merchantability, satisfactory quality, and fitness for a particular purpose. 3Com may make improvements or changes in the product(s) and/or the program(s) described in this documentation at any time.

If there is any software on removable media described in this documentation, it is furnished under a license agreement included with the product as a separate document, in the hard copy documentation, or on the removable media in a directory file named LICENSE.TXT or !LICENSE.TXT. If you are unable to locate a copy, please contact 3Com and a copy will be provided to you.

UNITED STATES GOVERNMENT LEGEND

If you are a United States government agency, then this documentation and the software described herein are provided to you subject to the following:

All technical data and computer software are commercial in nature and developed solely at private expense. Software is delivered as "Commercial Computer Software" as defined in DFARS 252.227-7014 (June 1995) or as a "commercial item" as defined in FAR 2.101(a) and as such is provided with only such rights as are provided in 3Com's standard commercial license for the Software. Technical data is provided with limited rights only as provided in DFAR 252.227-7015 (Nov 1995) or FAR 52.227-14 (June 1987), whichever is applicable. You agree not to remove or deface any portion of any legend provided on any licensed program or documentation contained in, or delivered to you in conjunction with, this User Guide.

Unless otherwise indicated, 3Com registered trademarks are registered in the United States and may or may not be registered in other countries.

3Com and the 3Com logo are registered trademarks of 3Com Corporation. 3ComFacts is a service mark of 3Com Corporation.

Microsoft, MS-DOS, Windows, Windows Millennium Edition (Windows Me), and Windows NT are registered trademarks of Microsoft Corporation. Novell and NetWare are registered trademarks of Novell, Inc.

All other company and product names may be trademarks of the respective companies with which they are associated.

CONTENTS

1 SETUP FOR WINDOWS 2000

Installing the PC Card 1
Confirming Installation 1
Uninstalling the Card 1
    Removing Card Software 2
    Removing the Card 2
Troubleshooting 2

2 SETUP FOR WINDOWS MILLENNIUM EDITION (WINDOWS ME) AND WINDOWS 98

Installing the PC Card 5
Confirming Installation 5
Uninstalling the Card 6
Troubleshooting 6

3 SETUP FOR WINDOWS 95

Installing the PC Card 9
Confirming Installation 9
Uninstalling the Card 10
Troubleshooting 10

4 SETUP FOR WINDOWS NT

Inserting the PC Card and Running the Installation 13
Installation Using Softex Software 13
    Installing the Network Interface 14
Installation Using System Soft Software 14
Installation Using Point Enabler 14
    Installing the Network Interface 14
        No Networking Installed 15
        Networking Already Installed 16
Uninstalling the Card 16
Troubleshooting 16

5 CONNECTING THE PC CARD AND USING THE UTILITIES

Connecting and Inserting the PC Card 19
Disconnecting the Cables 20
LAN Connector LEDs 21
Type III PC Card 21
Type II PC Card 22
Installing 3Com Utilities and Documentation 23
Opening the User Guide 23
Making Your Own Installation Diskettes 23

6 INTELLIGENT AUTO INSTALL FOR WINDOWS AND DOS ENVIRONMENTS

7 INSTALLING NDIS 2 NETWORK DRIVERS

Before You Begin 27
Banyan VINES 27
IBM LAN Server 4.0 for DOS 28
Artisoft LANtastic 6.0 29
DOS Prompt 29
Windows 29
DEC PATHWORKS 29
Microsoft LAN Manager 30

8 INSTALLATION FOR WINDOWS FOR WORKGROUPS

Before You Begin 33
Installing the Network Driver 33

A 3COM SUPPORT

On-Line Support 35
World Wide Web Site 35
3Com Support Web Site 35
3Com Software Library 35
3Com KnowledgeBase 35
Frequently Asked Questions 35
3Com FTP site for all FE574BT-Family files 35
3Com Facts Automated Fax Service 36
Support from Your Network Supplier 36
Support from 3Com 36
Returning Products for Repair 38

INDEX

REGULATORY INFORMATION

1 SETUP FOR WINDOWS 2000

Installing the PC Card

1. With the computer powered up and Windows 2000 running, insert the *Installation CD* into the CD-ROM drive. The auto-start feature starts the installation. If auto-start is disabled on your computer, click Start>Run and type *d:\setup.exe* (where d: is your CD-ROM drive).
2. Connect the PC Card to the network as shown in Chapter 5.
3. Insert the PC Card into the PC Card slot.

   After inserting the PC Card, if auto-start is enabled and nothing happens within five seconds, reboot your computer and log in to Windows 2000. The installation process will begin when the computer restarts.
4. Respond to the prompts as they appear.

   During the installation process, you may receive prompts for the Windows 2000 installation CD. Insert the CD and indicate the correct path.
5. Restart your computer if prompted.

Confirming Installation

1. Double-click the *My Computer* icon.
2. Double-click the *Control Panel* icon.
3. Double-click the *System* icon. The System Properties box appears, detailing your system setup.
4. Click the *Hardware* tab and then the *Device Manager* button. A list of devices appears, arranged by type.
5. Double-click *Network Adapters*. The LAN card name appears, confirming successful installation.
6. Double-click the entry for the LAN card to display a description of the card and its current status. The device status should indicate "This device is working properly."
7. Click *Cancel* to return to System Properties.
8. Click *OK* to exit System Properties.

Uninstalling the Card

If the card installation is unsuccessful for any reason, your best course may be to completely uninstall the LAN card and its software and repeat the installation procedures. A fresh install can also solve problems that can arise from removing the card or shutting off your computer while diagnostics were running.

Sometimes earlier installations or interrupted installation attempts leave problems that affect card operation. Possible problems include:

- One or both of the card functions not working.
- Windows 2000 not detecting the card.
- The system issuing a warning tone at startup.

If you are having any of these problems, remove the LAN card and software using the procedures below, then reinstall the card.

CAUTION: *Exit any communications or networking applications before removing the card.*

Removing Card Software

Open *Control Panel/System/Hardware/Device Manager*. Select the LAN card components and click *Remove*.

Using the Device Manager to remove the card will uninstall the card, software, and documentation. Be sure to remove the LAN interface.

You can also remove the online user guide separately.

1. Open *Control Panel/System/Hardware/Device Manager*.
2. Select *10/100 LAN PC Card-Fast Ethernet* and click *Remove*.
3. Click *Action* on the toolbar above and choose *Uninstall*.

Removing the Card

Check your computer manual for information on removing cards. Store the card in its original or similar packaging.

Troubleshooting

Symptom	Solution
Basic troubleshooting, applicable for all problem situations	Inspect all cables and connections. Check whether your card is fully inserted into the slot Check the Web site for your computer to verify whether you have the latest BIOS for your system. If not, download the newest BIOS version, and follow the upgrade instructions. Check for multiple installations of the card. Check whether your system's PC Card CardBus Controller is installed and running properly: go to *Control Panel/System/Hardware/Device Manager/PCMCIA Card* and verify that the controller is present and shows no errors. Check the Control Panel/PC Card application to confirm that your card is recognized by the system. In the Control Panel/Network application, make sure that you have appropriate Clients and Protocols installed. Check the Control Panel/Network application. Select *10/100 LAN PC Card-Fast Ethernet*, open the Advanced tab, and select *Check for cable*.

Symptom	Solution
The LAN device is not functional. LEDs on the PC Card, connector, or network adapter cable are off or mismatch the real network speed.	Use *Control Panel/System/Hardware/Device Manager* to inspect the status of your LAN card. If you see a red X, enable the card by checking the appropriate box under Properties If you see a yellow exclamation point, click the icon to see what the conflict is. Verify that there are adequate system resources. Try to free system resources (for example, disable the infrared port), then remove and reinstall the card.
Losing network connection after disconnecting or changing the media speed when using NetWare servers and IPX/SPX protocol.	This happens when the frame type is selected automatically. A temporary solution is to reboot the system after disconnecting/ reconnecting the cable in NetWare networks. The permanent solution is to use specific frame types such as 802.2 or 802.3.
Slow or dropped connection on a 10/100 switch or hub.	Disable Auto Polarity: **1** With the *Installation CD* inserted in the CD-ROM drive, browse to *D:\AUTOPL\AUTOPL.EXE*, where D: is your CD-ROM drive. **2** Double-click *AUTOPL.EXE*. **3** Select *3Com LAN Card*. **4** Click *Disable*. **5** Click *OK*. **6** Click *Close*.

2 SETUP FOR WINDOWS MILLENNIUM EDITION (WINDOWS ME) AND WINDOWS 98

Installing the PC Card

1. With the computer powered up and Windows running, insert the *Installation CD* into the CD-ROM drive. The auto-start feature starts the installation. If auto-start is disabled on your computer, click Start>Run and type *d:\setup.exe* (where d: is your CD-ROM drive).
2. Connect the PC Card to the network as shown in Chapter 5.
3. Insert the PC Card into the PC Card slot.

   After inserting the PC Card, if auto-start is enabled and nothing happens within five seconds, reboot your computer and log in to Windows. The installation process will begin when the computer restarts.
4. Respond to the prompts as they appear.

   During the installation process, you may receive prompts for the PC Card *Installation CD*. Insert the CD and select the path from the drop-down list. Click *OK*. The path is d:\install\disks\574BT (where d: is your CD-ROM drive).

   During the installation process, you may also receive prompts for the Windows Me or 98 installation CD. Insert the CD and indicate the correct path.
5. Restart your computer if prompted.

Confirming Installation

1. Double-click the *My Computer* icon.
2. Double-click the *Control Panel* icon.
3. Double-click the *System* icon. The System Properties box appears, detailing your system setup.
4. Click the *Device Manager* tab. A list of devices appears, arranged by type.
5. Double-click *Network Adapters*. *FE574BT-3Com 10/100 LAN PC Card-Fast Ethernet,* appears, confirming successful installation.
6. Double-click *FE574BT-3Com 10/100 LAN PC Card-Fast Ethernet* to display a description of the card and its current status. The device status should indicate "This device is working properly."

Uninstalling the Card

Sometimes previous or unfinished installations leave problems that affect card operation. If the card installation is unsuccessful for any reason, your best course may be to remove the card and its software and repeat the installation procedures with a fresh installation of the operating system. Possible problems may be indicated if:

- The card is not working.
- Windows ME or 98 is not detecting the card.
- The system issues a warning tone at startup.

If you are having any of these problems:

1. Open Control Panel/System/Device Manager.
2. Select *FE574BT-3Com 10/100 LAN PC Card-Fast Ethernet* and click *Remove*.
3. Remove the LAN PC Card from the PC Card slot.
4. Reboot and reinstall the card.

Troubleshooting

Symptom	Solution
Basic troubleshooting, applicable for all problem situations.	Inspect all cables and connections. Check whether your card is fully inserted into the slot. Verify that you have the latest BIOS for your system. If not, check the Web site for your notebook and follow the BIOS upgrade instructions. Check for multiple installations of the card. Check whether your system's PCMCIA or CardBus Controller is installed and running properly: go to *Control Panel/System/Device Manager/PCMCIA Card*. Verify that the controller is present and shows no errors. Open *Control Panel/PC Card* to confirm that the system recognizes your card. In *Control Panel/Network* make sure that you have the correct clients and protocols installed.
The LAN PC Card is not functional. LEDs on the PC Card, connector, or network adapter cable are off or mismatch the real network speed.	Use *Control Panel/System/Device Manager* to inspect the status of your LAN card. If you see a red "X", enable the card by checking the appropriate box under Properties. If you see a yellow exclamation mark, click the icon to see what the conflict is. Verify that there are adequate system resources. Try to free system resources (for example, disable the infrared port), then remove and reinstall the card.
Losing network connection after disconnecting or changing the media speed.	This can occur when using NetWare servers and IPX/SPX protocol. It happens when the frame type is selected automatically. A temporary solution is to reboot after disconnecting and reconnecting the cable in NetWare networks. The permanent solution is to use specific frame types such as 802.2 or 802.3.

Symptom	Solution
Need to force speed and duplex settings.	In most cases, the automatic settings work fine. However, if you to need to force speed or duplex settings to match those of an attached device: **1** Open *Control Panel/Network*. **2** Double click the LAN card. **3** Click the Advanced tab. **4** Select *Network Link Selection* and select the correct speed.
Slow or dropped connection on a 10/100 switch or hub.	The switch may be forced to 10 Mbps.Open *Control Panel>Network>Advanced* and disable Auto Polarity. **1** Open *Control Panel/Network* **2** Double click the LAN PC Card. **3** Click the Advanced tab. **4** Select *Automatic Polarity Selection* and select *Disable*.

3 SETUP FOR WINDOWS 95

Installing the PC Card

1. With the computer powered on and Windows running, insert the *Installation CD* into the CD-ROM drive. The auto-start feature starts the installation. If auto-start is disabled on your computer, click *Start>Run* and type *d:\setup.exe* (where d: is your CD-ROM drive).
2. Connect the PC Card to the network as shown in Chapter 5).
3. Insert the PC Card into the PC Card slot.

   After inserting the PC Card, if auto-start is enabled and nothing happens within five seconds, reboot your computer and log in to Windows. The installation process will begin when the computer restarts.
4. Respond to the prompts as they appear.

   During the installation process, you may receive prompts for the PC Card *Installation CD*. Insert the CD and select the path from the drop-down list. Click *OK*. The path is d:\install\disks\574BT (where d: is your CD-ROM drive).

   During the installation process, you may also receive prompts for the Windows 95 installation CD. Insert the CD and indicate the correct path.
5. Restart your computer if prompted.

Confirming Installation

1. Double-click the *My Computer* icon.
2. Double-click the *Control Panel* icon.
3. Double-click the *System* icon. The System Properties box details your system setup.
4. Click the *Device Manager* tab.
5. From the list of devices, double-click *Network Adapters*. The display should show *FE574BT-3Com 10/100 LAN PC Card-Fast Ethernet*, confirming successful installation.
6. Double-click *FE574BT-3Com10/100 LAN PC Card-Fast Ethernet* to display a description of the card and its current status. It should display "This device is working properly."

Uninstalling the Card

Sometimes previous or unfinished installations leave problems that affect card operation. If the card installation is unsuccessful for any reason, your best course may be to remove the card and its software and repeat the installation procedures with a fresh installation of the operating system. Possible problems may be indicated if:

- The card is not working.
- Windows 95 is not detecting the card.
- The system issues a warning tone at startup.

If you are having any of these problems:

1. Open *Control Panel/System/Device Manager*.
2. Select *FE574BT-3Com 10/100 LAN PC Card-Fast Ethernet* and click *Remove*.
3. Remove the LAN PC Card from the PC Card slot.
4. Reboot and reinstall the card.

Troubleshooting

Symptom	Solution
Basic troubleshooting, applicable for all problem situations.	Inspect all cables and connections. Check whether your card if fully inserted into the slot. Verify whether you have the latest BIOS for your system. If not, check the Web site for your notebook and follow the BIOS upgrade instructions. Check for multiple installations of the card. Check whether your system's PCMCIA or CardBus Controller is installed and running properly: go to *Control Panel/System/Device Manager/PCMCIA Card*. Verify that the controller is present and shows no errors. Open *Control Panel/PC Card* to confirm that the system recognizes your card. In Control Panel/Network application, make sure that you have the correct clients and protocols installed.
At installation, Update Device Driver window does not appear.	The LAN PC Card may have already been installed. The LAN PC Card may have been installed as "Other Devices" because of a previous faulty installation. PCMCIA may not be enabled on your system.
The LAN PC Card is not functional. LEDs on the PC Card, connector, or network adapter cable are off or mismatch the real network speed.	Use *Control Panel>System>Device Manager* to inspect the status of your LAN PC Card. If you see a red "X", enable the card by checking the appropriate box under Properties. If you see a yellow exclamation mark, click on the icon to see what the conflict is. Verify that there are adequate system resources. Try to free system resources (for example, disable the infrared port), then remove and reinstall the card.
The message *This DHCP client was unable to obtain an IP network address from a DHCP server* appears.	This message may appear if your system is set up to use DHCP. Be sure that your network card is connected to an active network port when you install or use the card. You may also see this message if the DHCP server goes down during PC Card installation or use.

Symptom	Solution
Losing network connection after disconnecting or changing the media speed	This can occur when using NetWare servers and IPX/SPX protocol. It happens when the frame type is selected automatically. A temporary solution is to reboot after disconnecting and reconnecting the cable in NetWare networks. The permanent solution is to use specific frame types such as 802.2 or 802.3.
Need to force speed and duplex settings.	In most cases, the automatic settings work fine. However, if you to need to force speed or duplex settings to match those of an attached device: **1** Open *Control Panel/Network*. **2** Double click *FE574BT-3Com 10/100 LAN PC Card-Fast Ethernet*. **3** Click the Advanced tab. **4** Select *Network Link Selection* and select the correct speed.
Slow or dropped connection on a 10/100 switch or hub.	The switch may be forced to 10 Mbps. Open *Control Panel>Network>Advanced* and disable Auto Polarity. **1** Open *Control Panel>Network* **2** Double click *FE574BT-3Com 10/100 LAN PC Card-Fast Ethernet*. **3** Click the Advanced tab. **4** Select *Automatic Polarity Selection* and select *Disable*.

4 SETUP FOR WINDOWS NT

Inserting the PC Card and Running the Installation

If you are reinstalling the card, make sure you have completed the procedures for "Uninstalling the Card" on page 16. For Windows NT 4.0 installation, you must have Service Pack 3 or later installed on your computer. After installation, reinstall the Service Pack software to update NT network files and eliminate error messages in the Event Viewer. Contact your Network Administrator or Microsoft if you do not have the current Service Pack.

1. Either print this page or write down the following seven steps.
2. Log out of Windows and turn the computer off.
3. Insert the PC Card into the PC Card slot.
4. Connect the PC Card to the network as shown in Chapter 5
5. Turn your computer on and log in to Windows.
6. Insert the CD into the CD-ROM slot. The auto-start feature will start the PC Card installation. If auto-start is disabled on your computer, click Start>Run and type *d:\setup.exe* (where d: is your CD-ROM drive).
7. Select *Install PC Card*. This page will appear.
8. Select the appropriate subsection and follow the instructions to install the network drivers.

Installation Using Softex Software

Use the following procedures if the Softex PC Card Controller for Windows NT 4.0 is installed on your system. If the Softex software is not installed, use the procedures for "Installation Using Point Enabler" on page 14.

For the following procedures:

- The computer must be running Windows NT 4.0.
- The Softex PC Card Controller for Windows NT 4.0 must be installed.
- Windows NT Service Pack 3 or later must be installed.

Installing the Network Interface

1. Connect to the network and insert the LAN card as described in "Connecting the PC Card and Using the Utilities" on page 19. The system will find the card and display a *PCMCIA Card Not Configured* dialog box.
2. Select *Install the driver that was provided with the PC Card.*
3. Insert the *Installation CD* and click *OK*. Use the path *d:\install\disks\574BT*, where d: is your CD-ROM drive.
4. Set the I/O Port, Memory Address, Interrupt, and Duplex Mode (the default values work in most instances) as required for your site and click *Continue*.
5. Set the Microsoft TCP/IP Properties as required for your site and click *OK*. The system will display a dialog box called *PCMCIA Reboot Needed*.

   Consult with your MIS representative if you do not know what settings to use.
6. Once the procedure is completed, reboot for the changes to take effect.

Installation Using System Soft Software

For setup using System Soft Card and Socket Services:

1. Connect to the network and insert the LAN PC Card as described in "Connecting the PC Card and Using the Utilities" on page 19. The system will find the card and display a *PCMCIA Card Not Configured* dialog box.
2. Click *Correct*. Use the path *d:\install\disks\574BT*, where d: is your CD-ROM drive. The card wizard for Windows NT will appear with instructions for installing the card.
3. Click *OK* and continue with the procedure described for "Installation Using Point Enabler" on page 14.

Installation Using Point Enabler

Point-enabler installation is a basic, manual installation procedure that will work on nearly all configurations, including systems with System Soft Card and Socket Services installed. If you are running the Softex software on your system, use the procedures for "Inserting the PC Card and Running the Installation" on page 13.

Installing the Network Interface

Before installing the network interface, insert the LAN card and connect to the network as described above. Obtain the following information from your MIS department:

- For Windows NT networking, your computer name and workgroup or domain name.
- For your network account, your user name and password.

The LAN card requires that Service Pack 3 (or a later version) be installed on your computer. Contact your network administrator or Microsoft if you do not have Service Pack 3 or later.

No Networking Installed

This procedure assumes that you have not already installed Windows NT networking on your notebook computer. If networking is installed, see "Networking Already Installed" on page 16.

1. In the Control Panel, double-click *Network*.
2. When the system prompts: "Windows NT Networking is not installed. Do you want to install it now?", click *Yes*. This opens the Network Setup Wizard.

   If the Network Setup Wizard does not appear, refer to "Networking Already Installed" on page 16.
3. Check *Wired to the network* and click *Next*.
4. When the system prompts to have setup start searching for a network adapter, click *Select* from List.
5. Click *Have Disk*. Insert the LAN PC Card *Installation CD* (disk) in the CD-ROM drive and click *OK*. Use the path *d:\install\disks\574BT*, where d: is your CD-ROM drive.
6. When the Select OEM Option window opens, select *FE574 - 3Com 10/100 LAN PC Card-Fast Ethernet* and click *OK*.
7. The *Network Adapters* list shows a check mark next to the 3Com LAN card. Click *Next* to continue.
8. In the Network Protocols list, place a check mark next to each network protocol required for your site and click *Next*.
9. In the Network Services window, place a check mark in the box next to each desired service. Unless you are following specific guidelines from your MIS department, select the default settings.
10. Click *Nex*t to install the selected components.
11. When prompted, enter the path to the Windows NT installation files (for example, D:\i386 on the NT CD) and click *Continue*. The window will appear again with the fields blank.
12. Remove the NT CD and insert the LAN PC Card *Installation CD* in the CD-ROM drive and click *OK*.
13. Specify the path *d:\install\disks\574BT*, where d: is your CD-ROM drive, and click *Continue*.
14. In the 3Com LAN card dialog box, accept the default settings and click *Continue*. Depending on your computer's current settings, a TCP/IP setup windows may appear. Select the options that are required for your site and continue.
15. When the window for enabling or disabling protocols opens, click *Next*.
16. When NT is ready to start the network, click *Next* to copy the network files.
17. Provide your computer name and workgroup or domain name when prompted.
18. When the system displays "Networking has been installed on your computer," click *Finish*.
19. When prompted to reboot the computer, remove the LAN card *Installation CD* from the CD-ROM drive and click Yes.

Networking Already Installed

This procedure assumes that Windows NT networking is already installed on your notebook computer. If networking is not yet installed, see "No Networking Installed" on page 15.

1. In the Control Panel, double-click *Network*.

   If the system prompts: "Windows NT Networking is not installed. Do you want to install it now?", use the procedure for "No Networking Installed" on page 15.

2. Open the *Adapter* tab and click *Add*.
3. Click *Have Disk*. Put the LAN card *Installation CD* in the CD-ROM drive and click *OK*. Use the path *d:\install\disks\574BT*, where d: is your CD-ROM drive.
4. When the Select OEM Option window opens, select *FE574 - 3Com 10/100 LAN PC Card-Fast Ethernet* and click *OK*.
5. In the 3Com LAN card dialog box, accept the default settings and click *Continue*.

   The default settings work in most instances. However, you may specify network link settings, auto polarity, and IRQ and I/O values.

6. After Windows copies all of the required files, it displays the LAN card name, *FE574 - 3Com 10/100 LAN PC Card-Fast Ethernet*. Click *Close*.

   Depending on your current network settings, you may see the Microsoft TCP/IP Properties screen.

7. When prompted to reboot the computer, remove the *Installation CD* from the CD-ROM drive and click Yes.

Uninstalling the Card

To remove the PC Card and LAN software from your system:

1. From the Control Panel, open Network/Adapters.
2. Select *FE574 - 3Com 10/100 LAN PC Card-Fast Ethernet* and click *Remove*.
3. Reboot.

Troubleshooting

Symptom	Solution
Basic troubleshooting, applicable for all problem situations.	Inspect all cables and connections. Check whether your card is fully inserted into the slot. Check the Web site for your computer to verify whether you have the latest BIOS for your system. If not, download the newest BIOS version and follow the upgrade instructions. If you are not using the Softex PC Card Controller, reinstall your Service Pack software after installing drivers for the LAN card. The event log lists any problems found during system operation. To check the event log for errors, select *Programs/Administrator Tools/Event Viewer* from the Start menu.
Computer not connecting to network.	The most common problems under NT 4.0 occur because system resources are not set correctly. Remember that you can always use the Windows NT Diagnostics Resource tab to determine which resources are free.

Symptom	Solution
Failure after Suspend/Resume.	This usually indicates a power-management problem. Since Windows NT 4.0 does not support power management, we recommend that you disable power management in the BIOS. Make sure you have the latest BIOS for your computer or upgrade your software from Microsoft.
Card not functioning.	Open Windows NT Diagnostics. From the Start menu, select *Programs/Admin Tools/Windows NT Diagnostics.* Windows NT Diagnostics lets you see where the drivers are loading in I/O, IRQ, MEM ranges. Check for resource conflicts and make sure the settings for the LAN card are valid.
The LAN PC Card is not functional. LEDs on the PC Card, connector, or network adapter cable are off or mismatch the real network speed.	Use *Control Panel>System>Device Manager* to inspect the status of your LAN PC Card. If you see a red "X", enable the card by checking the appropriate box under Properties. If you see a yellow exclamation mark, click on the icon to see what the conflict is. Verify that there are adequate system resources. Try to free system resources (for example, disable the infrared port), then remove and reinstall the card.
The LAN PC Card fails to function properly with Softex Card Services installed.	Make sure that you have the appropriate version of Softex installed for your machine and that you are using the Softex drivers located on the installation CD that shipped with the product.
The LAN PC Card fails to function with SystemSoft Card Services installed.	SystemSoft version 4.10.13 was tested with the LAN PC Card. Make sure that you have properly installed the correct version of SystemSoft Card Services for your computer.
Driver not loading correctly.	Service Pack 3 or a later version should be installed before you install the Softex PC Card Controller. If you are using Softex without any Service Pack software, complete the following procedure: **1** Remove the card. **2** Uninstall the Softex software. **3** Install the Service Pack software. You can download the latest Service Pack from Microsoft. **4** Reinstall the Softex software. **5** Reinstall the card.
Slow or dropped connection on a 10/100 switch or hub.	Disable Auto Polarity: **1** With the *Installation CD* inserted in the CD-ROM drive, browse to *D:\AUTOPL\AUTOPL.EXE*, where D: is your CD-ROM drive. **2** Double-click *AUTOPL.EXE*. **3** Select *3Com LAN Card*. **4** Click *Disable*. **5** Click *OK*. **6** Click *Close*.

5 CONNECTING THE PC CARD AND USING THE UTILITIES

Connecting and Inserting the PC Card

1. Connect the PC Card to the network as shown below.
2. Insert the LAN PC Card into the PC Card slot and push carefully until the card seats firmly.

CAUTION: *Do not force the LAN PC Card into the slot or you may bend the pins inside the slot.*

Disconnecting the Cables

On the Type II cabled (not XJACK) PC Card, the network adapter cable locks in place when connected to the card. To release the adapter, squeeze the release clips located on the sides of the connector.

CAUTION: *Do not pull or attempt to disconnect the network adapter cable without squeezing the release clips. Otherwise, you may damage the card and make it inoperable.*

All other cables used with the PC Cards lock in place when connected to the cards. To release a cable simply pull the cable free from the PC Card.

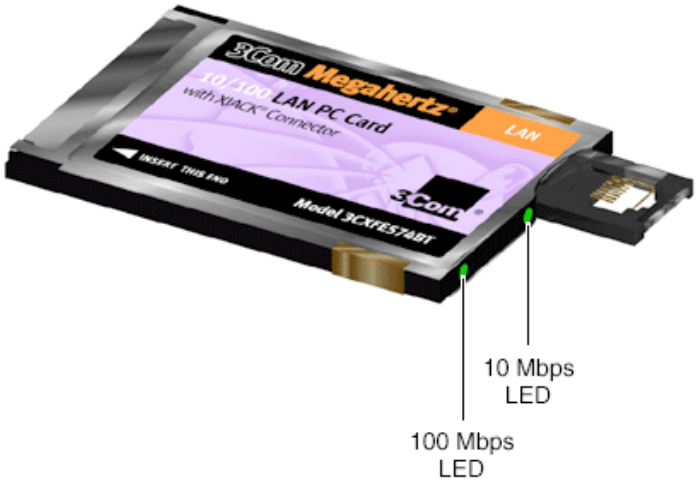
LAN Connector LEDs

Type III PC Card The connector lights to indicate network connection status.

- Green indicates a 10 Mbps link.
- Yellow indicates a 100 Mbps link.

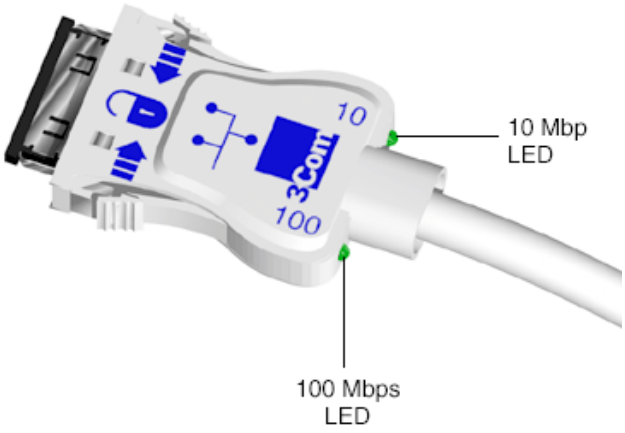
Type II PC Card

When using the XJACK connector, the card LED displays the status of your network link as follows:



When using the network adapter cable, the green LEDs display the status of your network link as follows:

- Steady indicates a good connection between the card and the hub.
- Blinking indicates either a faulty connection, or if the speed was set manually, the connection was not made at that speed.
- Off indicates that there is no connection between the card and the network.



NOTE: *You can use the LEDs to verify link integrity only when the LAN card is connected to the network and the network drivers are installed.*

Installing 3Com Utilities and Documentation

1. Insert the *Installation CD* in the CD-ROM drive and wait for the setup program to start automatically. If the auto-start feature is disabled on your machine, click *Start>Run* and type *d:\setup.exe* (where d: is your CD-ROM drive).
2. From the 3Com PC Card Installer menu, select the function you want to perform.

   Check with your network administrator about whether to install other utilities included with the LAN card.

Opening the User Guide

After the *User Guide* has been installed, to start it in your browser:

1. Open the *Start* menu and select *Programs*.
2. Select *3Com Mobile*.
3. Select *3Com FE574BT*.
4. Select *User Guide*.

Making Your Own Installation Diskettes

To make your own installation disks from the *Installation CD*, format one diskette and label it *3Com 10/100 LAN PC Card Installation.*

To create an *Installation* diskette:

1. Insert the *Installation CD* in the CD-ROM drive (for example, Drive D) and wait for the auto start feature to start the installation. If the auto-start feature is disabled on your machine, click *Start>Run* and type *d:\setup.exe* (where d: is your CD-ROM drive).
2. From the 3Com PC Card Installer menu, select *CD Utilities*.
3. Select *Create Diskettes*.
4. Follow the prompts that appear in DiskFactory.

6 INTELLIGENT AUTO INSTALL FOR WINDOWS AND DOS ENVIRONMENTS

If only one PC Card has been installed, you can use the 3Com Intelligent Auto Install software program to automatically install the NetWare ODI client software (including the driver), and to modify the CONFIG.SYS and AUTOEXEC.BAT files.

To use the Intelligent Auto Install program, the PC must meet these requirements:

- Use Novell NetWare 3.12, 4.10, or 4.11 network operating system
- Have *only one* PC Card installed
- Be intended for use as a NetWare DOS ODI client

To use the Intelligent Auto Install program, follow these steps:

1. Make sure the LAN card is installed and connected to the network, as described in Chapter 5.
2. Boot the PC under DOS.
3. With the *Installation Disk* in your CD-ROM drive, type *d:\install* (where d: is your CD-ROM drive) at the DOS prompt, and press Enter.
4. Select *Intelligent Auto Install and Config for NetWare (Intelligent Auto Install)*.

   When the OS selection screen appears, press Enter.
5. Select *Intelligent Auto Install for DOS, Windows 3.x, or WFW 3.11*.

   Several messages appear while the Intelligent Auto Install program is running. A final message indicates successful installation.

   If problems occur only when the Intelligent Auto Install program runs, view or print the COMSLINK.LOG file (located in your root directory).
6. As installation concludes, you are asked if you want to reboot the PC. For the installation to be effective, remove the *Installation* disk and reboot the notebook.

   When prompted, type your user name and password.

7 INSTALLING NDIS 2 NETWORK DRIVERS

Before You Begin

Use the NDIS 2.01 driver for the following network operating systems:

- Banyan VINES
- IBM LAN Server 4.0 for DOS
- Artisoft LANtastic 6.0
- DEC PATHWORKS
- Microsoft LAN Manager

Before installing the NDIS network driver, obtain the *Installation Disk* and ask your system administrator for the following information:

- NDIS driver and network operating system you are using: Banyan VINES, IBM LAN Server, Artisoft LANtastic/AI, DEC PATHWORKS, or Microsoft LAN Manager
- File server name
- Network account user name and password

The DOS NDIS 2.01 (EL3C574.DOS) network driver is shipped on the *Installation Disk*. You can install the NDIS driver using your network operating system installer.

Banyan VINES

Before you begin installation, you must have the Interrupt Request (IRQ) for your LAN card. Also, DOS must be installed on the target workstation's C drive, or you must have a DOS boot disk.

1. Use the DOS MD command to create a subdirectory called \VINES.
2. Copy the contents of the VINES LAN S/W (DOS) installation disk into the \VINES subdirectory.
3. Copy the contents of the NDIS subdirectory on the VINES LAN S/W (DOS) 2 of 2 disk into the \VINES subdirectory.
4. Copy EL3C574.DOS from A:\NDIS2 on the *LAN Installation Disk* to the C:\VINES subdirectory.
5. Copy the PROTOCOL.INI fragment from the \MSLANMAN.DOS\DRIVERS\ETHERNET\EL3C574 subdirectory on the *LAN Installation Disk* to the \VINES subdirectory.

6 Edit the PROTOCOL.INI file to read as follows:

```
[PROTOCOL MANAGER]
   DRIVERNAME = PROTMAN$
[VINES_XIF]
   DRIVERNAME = NDISBAN$
   BINDINGS = EL3C574
[EL3C574]
   DRIVERNAME = EL3C574$
```

7 Run the PCCONFIG.EXE program located in the \VINES subdirectory.

8 Select option 1, *Network Card Settings*.

9 Select the *NDIS Ethernet* option.

The NDIS workstation screen appears.

10 Enter the IRQ that you selected for the LAN card.

11 Press F10 twice to return to the first menu.

12 Select option 2, *Login Environment Settings*.

13 In the next screen, select option 1, *Default Communications Driver*.

14 In the next screen scroll down to NDIS Ethernet and press Enter.

15 Exit PCCONFIG by pressing F10 to save the new configuration.

16 Edit the CONFIG.SYS file to add the following lines, substituting A: for C: for a floppy disk installation.

```
DEVICE = C:\VINES\PROTMAN.DOS /I:C:\VINES
DEVICE = C:\VINES\EL3C574.DOS
LASTDRIVE = M
```

17 Edit the AUTOEXEC.BAT file to add the following lines:

```
cd\vines
ban
cd\
```

BAN loads the NDISBAN drivers and reads the PCCONFIG.DB file to invoke changes made during the PCCONFIG stage.

IBM LAN Server 4.0 for DOS

To install the 3Com NDIS driver (EL3C574.DOS) for IBM LAN Server 4.0, follow these procedures. DOS must be installed on your PC.

1 Insert the DOS LAN Services Disk 1 into your floppy disk drive.

Switch to that drive, type install, and press Enter.

2 Select the directory where you want the software installed.

The default directory is C:\NET. A menu appears that provides a list of network cards.

3 Select *Network card not shown in the list below...*

4 Remove the DOS LAN Services Disk 1 disk and insert the *LAN Installation Disk*.

5 Type a:\NDIS2 and press Enter.

The next menu displays *FE574BT-3Com 10/100 LAN PC Card-Fast Ethernet*. Additional menus will appear.

6 Choose the appropriate options for your network environment and complete the installation.

7 Refer to the IBM documentation if you have questions about these menus.

8 Copy a:\NDIS2\EL3C574.DOS from the Installation Disk to C:\NET.

9 After completing the installation, exclude the CIS memory address range for the LAN card by editing the CONFIG.SYS file.

10 Reboot the PC.

Artisoft LANtastic 6.0

To install the 3Com NDIS driver (EL3C574.DOS) for Artisoft LANtastic 6.0, follow these steps. You can install the driver from either the DOS prompt or Windows.

DOS Prompt

1 Insert Artisoft's LANtastic Disk 1 in the floppy disk drive.

2 Type a:install and press Enter.

Windows launches and starts the installation of LANtastic.

3 Go to step 5 under the following "Windows" procedure and continue with the remaining steps.

Windows

1 Launch Windows, if it is not already opened.

2 Put the Installation Disk in the floppy drive.

3 Select *Run* from the *File* menu.

4 Type a:\install and press Enter.

5 Follow the instructions and enter the required information.

6 Select *NDIS Support for Network Adapters* in the Select *Network Adapter* window.

7 When prompted, remove the LANtastic disk, insert the *LAN Installation Disk* and press Enter.

The NDIS driver is copied to your hard drive from the LAN Installation Disk.

8 When prompted, reinsert the LANtastic Disk 1 in the floppy drive.

9 Follow the instructions and enter the required information about your PC name and configuration.

DEC PATHWORKS

The DEC PATHWORKS for DOS/Windows software must be installed on the hard drive. Refer to the DEC documentation for installation instructions if the software has not been installed and for templates and options.

Run the AutoLink program on the Installation Disk if you are installing DEC PATHWORKS with Retail NDIS or NDIS with ODI drivers. To install DEC PATHWORKS for DOS/Windows 5.1, follow these steps:

1 Go to the drive where the PATHWORKS software is installed.

2 Go to the PCAPP directory.

3 Execute PWSETUP.

4 Enter the name of the directory where you want the software installed.

The default is C:\PW

5 Select *CUSTOMIZE* under the *Select a Configuration Option* menu.

6 Select a template in the *Select a Workstation Template* menu.

7 Under the *Customize: Modify Workstation Configuration* menu, put an X beside the *Network Adapter Information* line.

8 Choose the appropriate options for your network environment.

Refer to the DEC documentation for information regarding these menus.

9 Choose *Other Network Adapter* under the *Customize: Network Adapter Information* menu.

10 If you are not installing Retail NDIS or NDIS with ODI drivers, follow these instructions:

On the Driver File line, type:

```
a:\mslanman.dos\drivers\ethernet\EL3C574\EL3C574.DOS
```

On the PROTOCOL.INI Stub line, type:

```
a:\mslanman.dos\drivers\ethernet\EL3C574\protocol.ini
```

11 Verify that (l) Ethernet is marked and click *OK*.

12 Click *OK* under the *Customize: Network Adapter Information* menu.

Additional menus will appear.

13 Follow the DEC instructions to complete the installation.

If you are not using Card Services and you are using a memory manager, you must exclude the CIS memory address range for the LAN card and other Card Services devices.

14 Reboot the PC.

To install the driver for DOS/Windows version 4.1 see the PATHWORK.TXT file in the HELP directory on the *Installation Disk*.

Microsoft LAN Manager

The *LAN Installation Disk* contains a subdirectory structure and files that make it an OEM import disk for the LAN Manager installer. This procedure shows how to use the import function of the LAN Manager installer to capture the NDIS driver from the *LAN Installation Disk*. Be sure to save the new configuration before exiting the installer.

Ask your system administrator which protocol to use.

To install the 3Com NDIS driver for LAN Manager version 2.2 for DOS, follow these instructions:

1 Begin the MS-DOS LAN Manager installation by inserting the MS-DOS Setup disk in drive A:, typing a:\setup, and pressing Enter.

Follow the instructions provided.

After the PC reads the *Microsoft Drivers 1* disk, a window appears, showing available network adapter drivers.

2 Select *Select Other Driver*.

3 When prompted to insert your network driver disk, put the *LAN Installation Disk* in drive A and press Enter.

   After the driver is imported from the *LAN Installation Disk*, a box is displayed, showing the PC card driver.

4 Select the *FE574BT-3Com 10/100 LAN PCCard-Fast Ethernet* driver.

5 Select the protocol, which you obtained from your system administrator, to use with the LAN card.

   If required, ask your system administrator for the name of the protocol.

6 Follow the prompts to complete the installation and make sure to save the configuration.

7 Edit the CONFIG.SYS file and exclude the CIS Memory address.

8 INSTALLATION FOR WINDOWS FOR WORKGROUPS

Before You Begin

Before you begin installing the network driver, obtain the *Installation Disk* and the Windows for Workgroups 3.11 installation files (on hard disk, floppy disks, or CD). Ask your MIS department for the following information:

- Transport protocol used in the Microsoft Windows Network
- Name of the NT Server domain or Windows 95/WFW 3.11 Workgroup to which you belong

The latest versions of Card and Socket Services must be installed on your machine. Check with your PC manufacturer if you are not sure.

If you installed any other network adapter or network driver in the PC, consult your MIS department for further instructions.

Installing the Network Driver

To install the driver for WFW, follow these steps:

1. Using the *Windows* menu, select *Network*.
2. Select *Network Setup*.
3. In the Network Setup dialog box, select the *Networks...* button.
4. Select *Install Microsoft Windows Network,* and then click *OK*.
5. Select the *Drivers...* button.
6. In the Network Adapters dialog box, click *Add Adapter.* A dialog box appears, listing the supported network adapters on the disk.
7. From the list of network adapters, select *Unlisted Or Updated Network Adapter*, and click *OK*.
8. Insert the *LAN Installation Disk* in drive A and click *OK*. A dialog box appears, prompting you to specify the drive or directory where the EL3C574.DOS driver can be found.
9. Click *OK* to accept the default directory. Otherwise, if you need to specify the directory, type a:\NDIS2 and press Enter.
10. Select *FE574BT-3Com 10/100 LAN PCCard-Fast Ethernet* and click *OK*.
11. Click *OK*.
12. In the Network Adapters dialog box, click *Close*.
13. In the Network Setup dialog box, click *OK*.

14 If prompted, supply the information you gathered before you began the installation. After you enter the information, click *OK*.

   A message appears, prompting you to restart your PC.

15 Click *Continue* instead.

16 If you are not using Card Services and you have a memory manager (all PCs running Windows have a memory manager), you must exclude the CIS memory address range for the PC Card and other Card Services devices.

A 3COM SUPPORT

On-Line Support

For the latest information on the LAN card, try one of the following 3Com Web sites:

World Wide Web Site

http://www.3com.com

Access the latest networking information on the 3Com Corporation Web site by clicking the link above.

3Com Support Web Site

http://www.support.3Com.com

This link will take you directly to the 3Com web site for technical support.

3Com Software Library

http://support.3com.com/infodeli/tools/nic/3cxfe574bt.htm

This link will take you directly to the Web site for software downloads (including the latest version of this manual) for all FE574BT-family products.

3Com KnowledgeBase

http://knowlegebase.3com.com/

This link takes you to the knowledge base for 3Com products. The link to the LAN and LAN PC Cards contains a list of known problems on specific computer models and suggests ways to solve the problems.

Frequently Asked Questions

http://support.3com.com/infodeli/inotes/techtran/cs_faq3cxfe574bt.htm

This link takes you to the FAQ list for 3Com PC cards.

3Com FTP site for all FE574BT-Family files

ftp://ftp.3com.com/pub/nic/3cxfe574bt

From this site, you can download drivers, patches, software, and MIBs from the 3Com public FTP site. Click the link above or use the host ID 192.156.136.12.

3Com Facts Automated Fax Service

The 3Com Facts automated fax service provides technical articles, diagrams, and troubleshooting instructions. Call **1 408 727 7021** from a touch-tone telephone.

Support from Your Network Supplier

If additional assistance is required, contact your network supplier. Many suppliers are authorized 3Com service partners who are qualified to provide a variety of services, including network planning, installation, hardware maintenance, application training, and support services.

When you contact your network supplier for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

Support from 3Com

If you are unable to obtain assistance from the 3Com online technical resources or from your network supplier, 3Com offers technical telephone support services. If you contact 3Com for assistance, have the following information ready:

- Product model name, part number, and serial number
- A description of your computer system hardware and software, including revision levels
- Relevant diagnostic error messages, plus details about recent configuration changes
- Topology of your network, including the type of network device (for example hub or switch) your computer is connected to
- Type of computer you are trying to connect to (for example, NetWare server, NT server or peer-to-peer networking)

Below is a list of worldwide technical telephone support numbers:

Country	Telephone Number
Asia Pacific Rim	
Australia	1 800 678 515
Hong Kong	800 933 486
India	61 2 9937 5085
Indonesia	001 800 61 009
Japan	81 3 3375 4356
Malaysia	1800 801 777
New Zealand	0800 446 398
Pakistan	61 2 9937 5085
Philippines	1235 61 266 2602
P.R. of China	10800 61 00137 or 021 6350 1590
Singapore	800 6161 463
S. Korea	
From anywhere in S. Korea:	82 2 3455 6455 00798 611 2230
From Seoul:	0080 611 261
Taiwan, R.O.C.	001 800 611 2000
Thailand	
Europe	+31 (0)30 6029900 phone or +31 (0)30 6029999 fax
From the following European countries, use toll-free numbers:	
Austria	06 607468
Belgium	0800 71429
Denmark	800 17309
Finland	0800 113153
France	0800 917959
Germany	0130 821502
Hungary	00800 12813
Ireland	1 800 553117
Israel	177 3103794
Italy	1678 79489
Netherlands	0800 0227788
Norway	800 11376
Poland	0800 3111206
Portugal	05 05313416
South Africa	0800 995014
Spain	900 983125
Sweden	020 795482
Switzerland	0800 55 3072
U.K.	0800 966197
Latin America	
Argentina	AT&T +800 666 5065
Brazil	0800 13 3266
Chile	1230 020 0645
Colombia	98012 2127
Mexico	01 800 CARE (01 800 2273)
Peru	AT&T +800 666 5065
Puerto Rico	800 666 5065
Venezuela	AT&T +800 666 5065
North America	1 800 NET 3Com (1 800 638 3266)

Returning Products for Repair

Before returning a product to 3Com for repair, first obtain a Return Materials Authorization (RMA) number. Products sent to 3Com without RMA numbers will be returned to the sender unopened, at the sender's expense.

To obtain an RMA number, call or fax:

Country	Telephone Number	Fax Number
Asia, Pacific Rim	65 543 6500	65 543 6348
Europe, South Africa, and Middle East	+ 44 1442 435860	+ 44 1442 435718
From the following European countries, you may call the toll-free numbers; select option 2 and then option 2:		
Austria Belgium Denmark Finland France Germany Hungary Ireland Israel Italy Netherlands Norway Poland Portugal South Africa Spain Sweden Switzerland U.K.	06 607468 0800 71429 800 17309 0800 113153 0800 917959 0130 821502 00800 12813 1800553117 177 3103794 1678 79489 0800 0227788 800 11376 00800 3111206 05 05313416 0800 995014 900 983125 020 795482 0800 55 3072 0800 966197	
Latin America	1 408 326 2927	1 408 326 3355
U.S.A. and Canada	1 800 NET 3Com (1 800 638 3266)	1 408 326 7120

INDEX

A

Artisoft LANtastic 29
  installing the network driver 29
auto polarity 7, 11
AutoLink 25
  DOS 25
  Windows 3.x 25
  Windows for Workgroups 25

B

Banyan VINES 27
  installing the network driver 27

D

DEC PATHWORKS 29
  installing the network driver 29
disconnecting the cables 20
DOS 25
  installation 25

I

IBM LAN Server 28
  installing the network driver 28
installation
  Artisoft LANtastic drivers 29
  Banyan VINES drivers 27
  DEC PATHWORKS drivers 29
  disconnecting the cables 20
  DOS 25
  IBM LAN Server 4.0 drivers for DOS 28
  Microsoft LAN Manager drivers 30
  NDIS 2 network drivers 27
  removing the card (Windows 2000) 2
  uninstalling the card (Windows 2000) 1
  uninstalling the card (Windows NT) 16
  Windows 2000 1
  Windows 3.x 25
  Windows for Workgroups 33
  Windows NT 13

L

LEDs 21
  10 Mbps LED 21
  100 Mbps LED 21

M

Microsoft LAN Manager 30

N

NDIS 2 27
  driver installation 27

P

polarity 7, 11

S

setup for Windows Millennium Edition 5

T

technical support
  3ComFacts 36
  returning products for repair 38
  support from network suppliers 36
troubleshooting
  Windows 2000 2
  Windows 95 10
  Windows 98 6
  Windows Me 6
  Windows NT 16

W

Windows 2000 1
  installation 1, 9
  installing the network interface 1
  troubleshooting 2
  uninstalling 1
Windows 3.x 25
  AutoLink 25
  installation 25
Windows 95
  troubleshooting 10
  uninstalling 10
Windows 98
  installation 5
Windows for Workgroups 33
  AutoLink 25
  installation 33
Windows Me
  installation 5
  troubleshooting 6
  uninstalling 6
Windows NT 13
  installing network components 16
  troubleshooting 16

REGULATORY INFORMATION

FCC PART 15

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 measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

MANUFACTURER'S DECLARATION OF CONFORMITY
3Com Corporation 605 North 5600 West Salt Lake City, UT 84116 (800) 527-8677
Date: August 4, 2000 Declares that the Equipment: Model Number: 3CXFE574BT, 3CCFE574BT, 3C3FE574BT Name: 3Com Equipment Type: 10/100 LAN PC Card
FC Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

Complies with Part 15 of the FCC rules. *Operation is subject to the following two conditions: (1) this equipment may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

INDUSTRY CANADA (ICES-003)

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS DE CONFORMITÉ À LA RÉGLEMENTATION D'INDUSTRIE CANADA

Cet appareil numérique de la classe B est conform à la norme NMB-003 du Canada.

SAFETY

This equipment has been tested and certified according to the following safety standards and is intended for use only in Information Technology Equipment which has been tested and certified to these or other equivalent standards:

- *UL Standard 1950 / CSA C22.2 No. 950*
- *IEC 60950*
- *EN 60950*

CE NOTICE

CE

This device complies with the requirements of European Directive **89/336/EEC** - EMC Directive.

EN55022:Limits and methods of measurement of radio interference characteristics of Information Technology Equipment (ITE), **[Class B]**.

EN55024: Information technology equipment - Immunity characteristics - Limits and methods of measurement.

Council Directive 72/23/EEC - Low Voltage Directive

EN60950: Safety of Information Technology Equipment

VCCI Class B

This is a Class B product based on the standard of the Voluntary Control Council for Interference from information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスＢ情報技術装置
家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受
と、受信障害を引き起こすことがあります。

従って正しい取り扱いをして下さい。