



DFE-570TX PCI Fast Ethernet
Server Adapter
User's Guide

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RECYCLABLE

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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.

The device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interface.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
-

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D-Link warrants each of its hardware products to be free from defects in workmanship and materials under normal use and service for a period commencing on the date of purchase from D-Link or its Authorized Reseller and extending for the length of time stipulated by the Authorized Reseller or D-Link Branch Office nearest to the place of purchase.

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for the product in question has not been returned to a D-Link office, then a proof of purchase (such as a copy of the dated purchase invoice) must be provided when requesting warranty service. The term "purchase" in this software warranty refers to the purchase transaction and resulting license to use such software.

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D-Link Offices for Registration and Warranty Service

The product's Registration Card, provided at the back of this manual, must be sent to a D-Link office. To obtain an RMA number for warranty service as to a hardware product, or to obtain warranty service as to a software product, contact the D-Link office nearest you. An addresses/telephone/fax list of D-Link offices is provided in the back of this manual.

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Introduction

Thank you for choosing the D-Link Server Card, the value leader among Fast Ethernet adapters for PCI-Bus server computers. This Introduction chapter will be useful if you are new to Fast Ethernet and other new technology featured by the Server Card. Otherwise, skip ahead to the Installation chapter.

About Fast Ethernet

Fast Ethernet is a network technology specified by IEEE Standard 802.3u. It extends the traditional 10Mbps Ethernet technology to achieve 100Mbps transmission and reception, while retaining the same CSMA/CD Ethernet protocol. Thus while Fast Ethernet provides a tenfold increase in network capacity, it is wholly compatible with traditional 10Mbps Ethernet network facilities

About Auto-negotiation

Auto-negotiation is a IEEE 802.3 procedure of negotiating the highest data flow capability between the device (in this case, our Adapter) and it's link partner (some other device). The data flow information, to be negotiated, consists of the

data speed (10Mbps or 100Mbps) and data transfer (half-duplex or full-duplex communication). The physical process of auto-negotiation requires only a few milliseconds to choose the fastest communications capability between the two devices.

About Adaptive Load Balancing

Adaptive Load Balancing balances server traffic among as many as four like adapters, providing redundant links and easy scalability in 100Mbps increments, up to 800Mbps. Traffic is automatically distributed among multiple adapters or among multiple ports in a four-port adapter – without the time and expense of segmenting the network.

About Fault Tolerance

Adapter Fault Tolerance safeguards vital network links with transparent backup connections using multiple link adapters. If a link fails, traffic is automatically transferred to the remaining adapters or to the remaining port on a dual-port adapter. User applications and the server stay up and running.

Server Card Features

Designed for versatility and performance, the Server Adapter provides the following features:

- Load Balances incoming and outgoing traffic for greatest performance.

- Failover protection without loss of connection or data.
- Operates in a 5-Volt PCI Bus Master slot of a Pentium computer, independent of CPU speed.
- PCI Bus Master memory access, for high throughput and low CPU demand.
- 32-bit Intelligent Ethernet controller.
- Complies with IEEE 802.3u 100Base-TX and 10Base-T Ethernet standards.
- 4 RJ-45 connectors for network cable connection.
- 100Mbps Fast Ethernet or 10Mbps Ethernet data transfer, selected via auto-negotiation.
- Full-duplex or half-duplex operation, selected by auto-negotiation.
- Three (per-port) LED indicators provide information, to assist in troubleshooting.

Installation

Hardware Requirements

- NT Server or Workstation, with Intel Pentium, single or multiple processors. (Dual Pentium or higher is recommended for high traffic load).
- mouse or compatible pointing device
- CD-ROM

at least this or better:

- VGA video adapter
- 32 MB RAM
- 2 MB HDD space

Operating System Requirements

- Microsoft Windows NT 4.0
- Windows 2000

Installation of a Server Card requires hardware installation first, then software installation. The Server Card requires a 5-volt (not 3.3-volt) PCI connection and enough room behind the connector to accommodate a full-length card. Most computers are equipped with 5-volt PCI connectors and if your computer is not, the Server Card will not fit into the slot.

Unpack and Inspect

CAUTION: *Under ordinary circumstances, the Server Card will not be affected by static charge as may be received through your body during handling of the unit. In special circumstances where you may carry an extraordinarily high static charge, it is good practice to reduce the charge by touching a ground before handling the adapter card.*

Open the shipping carton and carefully remove all items. In addition to this User's Guide, ascertain that you have:

- One Ethernet Adapter Server Card.
- Server Card Software CD.

Install the Adapter

1. Shut down the computer, unplug its power cord, and remove the chassis cover.
2. Insert the contact edge of the Server Card into the connector of any available PCI Bus Master expansion

slot. Press the card firmly into the connector and ascertain that the card's contacts are fully seated in the connector.

3. Install the bracket screw which secures the card to the computer chassis.
4. Replace the computer's chassis cover.
5. Reconnect the computer's power cord, and switch computer power on. If the BIOS section of your computer's boot program is Plug and Play compliant, then at power-up the BIOS will automatically configure any newly installed Server Card adapter.

NOTE: Due to a fault in some Plug-n-Play BIOS programs, it happens occasionally that a newly installed adapter is assigned an Interrupt Number which is already assigned to another device. In such a case, the conflict of Interrupt Number will cause faults in the behavior of both devices. Then it is necessary to run the CMOS Setup utility, and manually assign a non-conflicting Interrupt Number.

Connect the Network Cable

Category 5 UTP cable qualifies for both, the Fast Ethernet and Ethernet, cabling rules. The maximum length of any single cable run between any station and its supporting hub is 100 meters. The maximum length of a cable joining two switches is 10m in general, but is 100m when both switches qualify as Ethernet Class 2 Repeaters (*all* D-Link Ethernet switches do qualify). However, these cable runs may need to be shorter than the given individual maximum lengths, because their lengths are globally restricted by the rule that

the maximum aggregated cable run between any two stations is 205m. Up to 4 cables can be used in any combination per Server Card.

Connecting for Fast Ethernet (100Mbps)

Category 5 UTP cable is required for Fast Ethernet operation. The maximum cable run between the Server Card and the supporting switch is 100m. The cable must be *straight* (not a *crossover* cable), with a RJ-45 plug at each end. Make the network connection by plugging one end of the cable into the RJ-45 jack of the Server Card and the other end into a port of the supporting switch.

Connecting for 10Mbps Ethernet

Category 3, Category 4, and Category 5 UTP cable, as well as EIA/TIA-568 100-ohm STP cable, all qualify under Ethernet cabling rules. The maximum cable run between the Server Card and the supporting switch is 100 meters. The cable must be *straight* (not a *crossover* cable) with a RJ-45 connector at each end. Make the network connection by plugging one end of the cable into the RJ-45 jack of the Server Card, and the other end into a port of the supporting switch.

Using a Crossover Cable

A crossover cable can be used to connect the Server Card directly to the workstations, without the use of a switch. In

this configuration, it is recommended that the line speed be overridden by selecting either 10Mbps or 100Mbps in the driver configuration, rather than let the Server Card use auto-negotiation.

Software Installation

Windows 2000 and Windows NT 4.0 (with Service Pack 3 and NDIS Hot Fix), or later is needed before network drivers are installed.

Note: Please make sure you have installed SNMP service

before you installed Service Pack 3 or later and NDIS Hot Fix .

Driver Installation

After properly installing the adapter into the server, the next step is to install the driver software.

For NT4.0, please refer to the following steps for driver installation:

- 1) Start the server with Windows NT 4.0 and insert the software diskette into drive A or CD-ROM.
- 2) Open the icons, *My Computer* → *Control Panel* → *Networks*.
- 3) Select *Add Adapter* → *Have Disk*. Choose “**D-Link DFE-570TX PCI Fast Ethernet Server Adapter**” .

- 4) After driver files are copied to the server, a configuration window will appear. From here, you can assign the Connection Type and Network Address for adapter. It is suggested that you choose the default values for both of these.
- 5) Restart the computer.

·D-Link Network Adapter Load Balancing and Failover Installation

Please reference the [“NT4.0_SetupGuide.pdf”](#).

For Win2000, please refer to the following steps for driver installation:

Update driver from diskette

The following steps can help you update the bundled Intel 21143 driver to the one in the Adapter Drivers CD.

1. Open Control Panel, double click "System" icon to open System Properties.
2. In the "Hardware" sheet, you can see the "Device Manager" button. Click to open Device Manager.
3. Use the tool bar to make sure you "View" "Devices by type".

Then you will be able to find Intel 21143 Based PCI Fast Ethernet Adapter...in "Network Adapters" group. Double

click it to open its property.

4. In the "Driver" sheet of the adapter's properties, there is a

button named "Update Driver". Click it, the Upgrade Device Driver Wizard will show up to help updating the driver.

The following steps will lead you through the wizard ...

1. The first page is the welcome messages, click "Next" to continue.

2. Select "Search for a suitable driver for my device (recommended)", and click "Next".

3. Check "Specify a location" only. Click "Next" to continue.

4. Specify the path.

(D:\ , assume D: is CD drive)

5. The wizard will find the specified driver.

D-Link DFE-570TX

Click "Next" to continue.

6. The wizard will copy and load the driver, than you will see

"Finish" bottum. Click it and it's done.

• ***D-Link Network Adapter Load Balancing and Failover Installation***

Please reference the [“WIN2000_SetupGuide.pdf”](#).

Status and Statistics

At any time, you can instantly gauge the status of any port in a Server Card array, and review performance statistics on each array or individual ports. To view the status information, reload the Network Control applet and view the properties of the Server Card following the steps below.

- 1) Open the Network Control Panel applet and select the Protocols tab.
- 2) Select Server Card and click on the Properties button. The Server Card dialog should be displayed with two tabs: Setup and Status.
- 3) Select the Status tab to display the current condition of each port and throughput statistics for arrays or individual ports. Throughput statistics can be viewed on a per-second or cumulative basis. To toggle between these two modes, use the pull-down window in the center of the dialog. Also, throughput can be viewed for individual ports or for the entire segment or array. Choose the Segment array name for which you wish to view statistics in the upper window or choose the individual Server Cards within the array.

Status and Alerts

Within the Status dialog box, you can also view the status. The software keeps track of five different states for each Server Card in an array. These states are represented

using different color icons for the Server Card in the tree view. The five states with explanations are shown below.

- **Green Adapter** – Adapter is working properly and has not failed.
- **Green Adapter with Red X** – Adapter has stopped working for the first time since the server was booted.
- **Yellow Adapter** – Adapter has gone down at least once since the last boot.
- **Yellow Adapter with Red X** – Adapter is currently down and has been down before.
- **Red Adapter** – Adapter has failed more than three times in one hour (default) and the software has pulled the adapter from the array. This state prevents the Server Card from constantly failing over on faulty adapters that should be replaced.



Troubleshooting

If you experience any problems with the Server Card, first verify that the appropriate driver has been loaded, that the proper grade of cable is employed for the network connection, and that the supporting switch or workstation is functioning properly.

1. Ascertain that the adapter is fully and firmly seated in the slot connector.
2. Check the length and rating of connecting cables.
3. Ascertain that the adapter's PCI slot is not deactivated at the BIOS level. The CMOS Setup utility in PCI computers ordinarily provides the option to activate or deactivate PCI slots.
4. Replace the adapter in question with a verified adapter and run the diagnostic test again.
5. Install the questioned adapter in another PCI computer and run the tests again.
6. Remove all other PCI adapters from the computer and run the tests again. If the verification/diagnostic run is then normal, then there is probably an interrupt number conflict which will have to be resolved manually by a CMOS Setup utility run after you have reinstalled all of the expansion cards.

The Server Card features three LED indicators to assist in the resolving of network diagnostics:

- **100M** Speed Indicator is located in the upper-left corner of each port.
This LED lights green (ON) when 100Mbps speed is selected and dark (OFF) when 10Mbps is negotiated.
- **LINK/ ACT** Indicator is located in the upper-right corner of each port.

A steady green LED indicates good linkage between the Server Card and its corresponding device. A flashing green LED indicates that the adapter is sending or receiving (ACTivity).

- **FULL** A port corresponding LED lights *green* for the data transfer of each port in full-duplex mode.

Specifications

Network Type:

- Fast Ethernet 100Base-TX
IEEE 802.3u standard for 100Mbps baseband
CSMA/CD local area network
- Ethernet 10BASE-T
IEEE 802.3 standard for 10Mbps baseband CSMA/CD
local area network

Auto-negotiation functionality

Media interface: four RJ-45 ports

Host interface: 5-volt PCI 2.1 Bus (Bus Master)

Physical Dimensions: 19 cm x 10 cm

Weight: 128g for PCBA

EMI Compatibility:

- FCC Class B
- VCCI Class B
- CE Class B
- C-Tick Class B
- BSMI Class B

Environment:

Storage Temperature: -25° to 55°C, (-4° to 176° F)

Storage Humidity: 5% to 90% RH non-condensing

Operating Temperature: 0° to 50° C, (32° to 131° F)

Operating Humidity: 20% to 80% RH non-condensing
Power Consumption: 7.5 W (1.5A @ 5V) max

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BBS: 1-949-455-1779, 1-949-455-9616
URL: www.dlink.com E-MAIL: tech@dlink.com, support@dlink.com

Registration Server Card

Print, type or use block letters.

Your name: Mr./Ms _____
 Organization: _____ Dept. _____
 Your title at organization: _____
 Telephone: _____ Fax: _____
 Organization's full address: _____

 Country: _____ Date of purchase (Month/Day/Year): _____

Product Model	Product Serial No.	* Product installed in type of computer (e.g., Compaq 486)	* Product installed Computer serial No.

(* Applies to adapters only)

Product was purchased from:

Reseller's name: _____
 Telephone: _____ Fax: _____
 Reseller's full address: _____

1. **Where and how will the product primarily be used?**
 Home Office Travel Company Business Home Business Personal
2. **How many employees work at installation site?**
 1 employee 2-9 10-49 50-99 100-499 500-999 1000 or more
3. **What network protocol(s) does your organization use ?**
 XNS/IPX TCP/IP DECnet Other: _____
4. **What network operating system(s) does your organization use ?**
 D-Link LANsmart Novell NetWare NetWare Lite SCO Unix/Xenix
 PC NFS 3Com 3+Open Banyan Vines DECnet Pathwork
 Windows NT Windows NTAS Windows '95 Other: _____
5. **What network management program does your organization use ?**
 D-View HP OpenView/Windows HP OpenView/Unix SunNet Manager Novell NMS
 NetView 6000 Other: _____
6. **What network medium/media does your organization use ?**
 Fiber-optics Thick coax Ethernet Thin coax Ethernet
 10BASE-T UTP/STP 100BASE-TX 100BASE-T4 100VGAnyLAN
 Other: _____
7. **What applications are used on your network?**
 Desktop publishing Spreadsheet Word processing CAD/CAM
 Database management Accounting Other: _____
8. **What category best describes your company?**
 Aerospace Engineering Education Finance Hospital Legal Insurance/Real Estate
 Manufacturing Retail/Chainstore/Wholesale Government
 Transportation/Utilities/Communication VAR
 Systemhouse/company Other: _____
9. **Would you recommend your D-Link product to a friend?**
 Yes No (why?) _____ I don't know yet

10. Your comments on this product:

PLEASE
PLACE STAMP
HERE

TO: _____

D-Link®