



# DFE-580TX PCI Fast Ethernet Server Adapter User's Guide

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**RECYCLABLE**

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## FCC Certifications

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.

Shielded interface cables must be used in order to comply with emission limits.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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

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

## Limited Warranty

### Hardware:

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.

This Warranty applies on the condition that the product Registration Card is filled out and returned to a D-Link office within ninety (90) days of purchase. A list of D-Link offices is provided at the back of this manual, together with a copy of the Registration Card.

If the product proves defective within the applicable warranty period, D-Link will provide repair or replacement of the product. D-Link shall have the sole discretion whether to repair or replace, and replacement product may be new or reconditioned. Replacement product shall be of equivalent or better specifications, relative to the defective product, but need not be identical. Any product or part repaired by D-Link pursuant to this warranty shall have a warranty period of not less than 90 days, from date of such repair, irrespective of any earlier expiration of original warranty period. When D-Link provides replacement, then the defective product becomes the property of D-Link.

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Warranty service for software products may be obtained by contacting a D-Link office within the applicable warranty period. A list of D-Link offices is provided at the back of this manual, together with a copy of the Registration Card. If a Registration Card 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.

D-Link warrants that its software products will perform in substantial conformance with the applicable product documentation provided by D-Link with such software product, for a period of ninety (90) days from the date of purchase from D-Link or its Authorized Reseller. D-Link warrants the magnetic media, on which D-Link provides its software product, against failure during the same warranty period. This warranty applies to purchased software, and to replacement software provided by D-Link pursuant to this warranty, but shall not apply to any update or replacement which may be provided for download via the Internet, or to any update which may otherwise be provided free of charge.

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uninterrupted or absolutely error-free, and no warranty that all defects in the software product, within or without the scope of D-Link's applicable product documentation, will be corrected.

## **Warranty Period**

For warranty in your region, please check with your local D-Link office and authorized agents as warranty periods may vary from region to region.

The warranty for power supplies and power adapters is one year.

## **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 introductory chapter will be useful if you are new to Fast Ethernet and other new technologies used by the Server Card. Otherwise, skip ahead to the Installation chapter.

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## 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

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## Auto-Negotiation

Auto-negotiation is an IEEE 802.3-specified procedure for negotiating the highest data flow capability between the device (in this case, our Adapter) and its 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.

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## 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.

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## 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. This allows user applications and the server to stay up and running.

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## Server Card Features

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

- Load Balancing of incoming and outgoing traffic to achieve the greatest performance.
- Instant failover without loss of connection or data.
- Operation in a universal 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.
- Compliance 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 providing information to assist in troubleshooting.
- Detailed throughput graphing and reporting.
- Compatibility with all NT and Windows 2000 protocols, including TCP/IP and IPX.
- SNMP alerts based on any of the 4 adapter states—built-in software sends alarms and alerts to any SNMP Management Console based on various states and conditions of each network.

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# Installation

## Minimum Hardware Requirements

- Intel Pentium-class processor
- mouse or compatible pointing device
- CD-ROM drive
- VGA video adapter
- 32 MB RAM
- 2 MB HDD space

## Operating System Requirements

- Microsoft Windows NT 4.0 (with Service Pack 6, Service Pack 5, with Service Pack 3 and NDIS Hot Fix, and with Service Pack 4 and Roll-up Hot Fix)
- Microsoft Windows 2000

Installation of a Server Card requires hardware installation first, then software installation. The Server Card requires a universal bus PCI connection and enough room behind the connector to accommodate a full-length card.

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## Unpacking and Inspection

**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-ROM

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## Installing 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 that secures the card to the computer chassis.
4. Replace the computer's chassis cover.
5. Connect all the cable in your group.

6. 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.*

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## Connecting the Network Cable

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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 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.

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## Software Installation

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The DFE-580TX supports Microsoft Windows NT 4.0 (Service Pack 6, Service Pack 5, Service Pack 4, with Roll-up Hot Fix, and Service Pack 3, with NDIS Hot Fix) and Windows 2000. For detailed software installation, please reference the NT4.0 or Windows 2000 setup guide: "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 of 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 through software that 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.

**NOTE:** *By default, the Server Card is permanently removed from the adapter array if it goes down three times within one hour. To change this, refer to the “SetupGuide.pdf” documentation.*

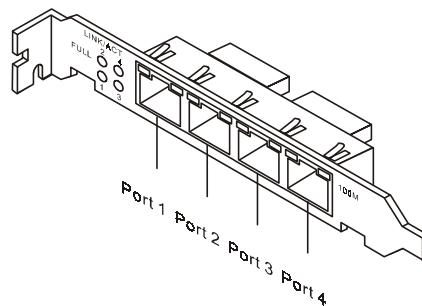
## Troubleshooting

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 an adapter that has been verified to be working properly and run the diagnostic test again.
5. Install the questionable 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 normal, then there is probably an interrupt number conflict that 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** This speed indicator is located in the right corner of each port.  
This LED lights green (ON) when 100Mbps is selected and dark (OFF) when 10Mbps is negotiated.
- **LINK/ACT** This indicator is located in the left 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 corresponding port LED lights *green* for the data transfer of each port in full-duplex mode.



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# *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: Universal PCI 2.2 Bus (Bus Master)

Physical Dimensions: 16 cm x 10 cm

Weight: 22.8g for PCBA

EMI Compatibility:

- FCC Class B
- VCCI Class B
- CE Class B
- BSMI Class B

Environment:

- Storage Temperature: -25° to 55°C, (-4° to 131° 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: 3 W max

# D-Link® Offices

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## Server Registration 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®**