



DFE-520TX

## 10/100Mbps Ethernet PCI Card for PC

The DFE-520TX is a very low-cost auto-sensing 10/100Mbps dual-speed network card installable in a PC equipped with PCI expansion slots. This card makes extensive use of the single-chip technology and is equipped with an on-board FIFO buffer, providing your computer with an easy and effective connection to an Ethernet network.

### PCI Bus Master Performance

Plugged into your PC's PCI expansion bus, this network card is automatically configured by the PC BIOS. Supporting 32-bit Bus Master operation, the card provides a guaranteed performance for your networked PC. Bus Master transfers data directly between the card and the PC host, bypassing your computer host CPU to alleviate its workload. This allows your computer to concentrate on the application at hand, instead of the network operation task.

### 10/100Mbps Connection

The card's single RJ-45 connector connects to either 10BASE-T Ethernet or 100BASE-TX Fast Ethernet. 10/100Mbps speeds are auto-negotiated, completely without your need to intervene.

### 802.3x Flow Control for Secure Transmission

In the fast 200Mbps full-duplex mode, the card's embedded flow control provides a means to protect your data against possible loss during transmission on the network. When connected to a LAN switch that supports flow control, the card receives signals from the switch regarding buffer overrun during peak usage periods. The card then delays transmission until the switch is ready again to accept new data.

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### Key Features

- 802.3 10BASE-T/802.3u 100Base-TX standard
- Auto-detection of 10Mbps and 100Mbps network speeds
- Supports 802.1x function (MD5 only)
- 32-bit PCI Local Bus Master high-speed operation
- Full/half duplex operation
- Complies with Advanced Configuration and Power Interface specification v.1.0
- Complies with PCI Power Management v.1.1
- Supports 802.3x Flow Control
- Supports PCI clock speed up to 33Mhz independent of network clock
- On-board FIFO buffer; no external memory on host required
- Low Ethernet command processing overhead

# DFE-520TX

## Technical Specifications

## 10/100Mbps PCI Card

### General

#### Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x Flow Control
- PCI local bus 2.2 specification

#### Topology

Star

#### Protocol

CSMA/CD

#### Network Data Transfer Rates

- 10BASE-T:
  - 10Mbps (half-duplex)
  - 20Mbps (full-duplex)
- 100BASE-TX:
  - 100Mbps (half-duplex)
  - 200Mbps (full-duplex)

#### Network Cables

- 10BASE-T:
  - UTP Cat.3, 4, 5 (100 m max.)
  - EIA/TIA-568 STP (100 m max.)
- 100BASE-TX:
  - UTP Cat. 5 (100 m max.)
  - EIA/TIA-568 STP (100 m max.)

#### Diagnostic LED Report

- Link
- Activity

### Physical & Environmental

#### Power Consumption

0.4 watts max.

#### Dimensions

120 x 20 mm

#### Weight

106 grams

#### Operating Temperature

0° to 40 °C

#### Storage Temperature

-10° to 70 °C

#### Operating Humidity

10% to 90% RH

#### Storage Humidity

5% to 90% RH

#### Emission

- FCC Class B
- CE Class B
- C-Tick

#### O.S. Driver Support

Microsoft Windows 98 SE, 2000, ME, XP



### Ordering Information

DFE-520TX 10/100Mbps Ethernet PCI card

# D-Link®

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<b>U.S.A</b>	TEL: 1-800-326-1688	FAX: 1-866-743-4905
<b>Canada</b>	TEL: 1-905-8295033	FAX: 1-905-8295223
<b>Europe (U. K.)</b>	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
<b>Germany</b>	TEL: 49-6196-77990	FAX: 49-6196-7799300
<b>France</b>	TEL: 33-1-30238688	FAX: 33-1-30238689
<b>Netherlands</b>	TEL: 31-10-282-1445	FAX: 31-10-282-1331
<b>Belgium</b>	TEL: 32(0)2-517-7111	FAX: 32(0)2-517-6500
<b>Italy</b>	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723
<b>Sweden</b>	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
<b>Denmark</b>	TEL: 45-43-969040	FAX: 45-43-424347
<b>Norway</b>	TEL: 47-23-897189	FAX: 47-22-309085
<b>Finland</b>	TEL: 358-9-2707 5080	FAX: 358-9-2707-5081
<b>Spain</b>	TEL: 34-93-4090770	FAX: 34-93-4910795
<b>Portugal</b>	TEL: 351-21-8688493	
<b>Czech Republic</b>	TEL: 420-(603)-276-589	
<b>Switzerland</b>	TEL: 41-(0)-1-832-11-00	FAX: 41(0)-1-832-11-01
<b>Greece</b>	TEL: 30-210-9914 512	FAX: 30-210-9916902
<b>Luxemburg</b>	TEL: 32-(0)2-517-7111	FAX: 32-(0)2-517-6500
<b>Poland</b>	TEL: 48-(0)-22-583-92-75	FAX: 48-(0)-22-583-92-76
<b>Hungary</b>	TEL: 36-(0)-1-461-30-00	FAX: 36-(0)-1-461-30-09
<b>Singapore</b>	TEL: 65-6774-6233	FAX: 65-6774-6322
<b>Australia</b>	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
<b>India</b>	TEL: 91-022-26526696	FAX: 91-022-26528914
<b>Middle East (Dubai)</b>	TEL: 971-4-3916480	FAX: 971-4-3908881
<b>Turkey</b>	TEL: 90-212-289-56-59	FAX: 90-212-289-76-06
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<b>Russia</b>	TEL: 7-095-744-0099	FAX: 7-095-744-0099 #350
<b>China</b>	TEL: 86-10-58635800	FAX: 86-10-58635799
<b>Taiwan</b>	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
<b>Headquarters</b>	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299