D-Link®

10/100Mbps Adapter

DFE-530TX Fast Ethernet adapter is equipped with an auto-negotiate 10/100Mbps NWay interface. It plugs into a desktop PC's PCI expansion bus slot to run in 10BASE-T or 100BASE-TX mode, half or full duplex.

High-performance 10/100Mbps Adapter for PCI Bus

D-Link's DFE-530TX Fast Ethernet adapter is a high-performance auto-sensing 10/100Mbps dual-speed adapter for the PCI bus. Installable in a Pentium or Pentium Pro PC equipped with PCI expansion slots, this adapter turns a desktop into a high-bandwidth graphic/multimedia workstation or a power server running at full-duplex speed.

Powerful Performance
The adapter operates in the 32-bit Bus Master mode, delivering throughputs at multi-megabits per second with little stress on the host's CPU. Supporting PCI clock speeds independently of the network clock, it transfers data directly to/from the host's memory, by-passing the CPU to alleviate the host's workload.

Easy Migration
The adapter's dual-interface allows users to migrate from Ethernet to Fast Ethernet in easy steps. 10BASE-T users can upgrade to 100BASE-TX anytime without changing driver software or network cables.

Network Security
Network administrators can install optional boot ROMs on the adapters to implement network security. Diskless workstations equipped with these ROMs can remote boot from NetWare or Windows NT servers and access authorized data.

Auto-sensing 10/100Mbps Interface
The adapter's single connector connects to either 10BASE-T Ethernet or 100BASE-TX Fast Ethernet completely without any need to set configuration. It detects the connected hub's or switch's capability and auto-negotiates to use the highest available speed.

Full Duplex Support
Full/half duplex operation is auto-detected in both 10BASE-T and 100BASE-TX modes. When connected to a switch in full duplex, the network speed can be increased to 200Mbps, making the adapter an ideal NIC for high-speed server deployment.

Comprehensive Driver Support
The adapter supports all major network operating systems, including NetWare, Windows NT, Windows 95, 98 and Unix.

Key Features

- 10/100Mbps NWay interface
- 32-bit PCI bus master operation
- Low network command processing overhead
- Single shielded RJ-45 connector
- UTP and STP supported

- Full duplex supported for both 10BASE-T, 100BASE-TX
- Remote boot supported
- Easy-to-view diagnostic LEDs
- Completely self-configurable
- Complete driver support

LAN ADAPTER

10/100Mbps Adapter

Technical Specifications

General

Standards
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3 10BASE-T Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation
- PCI local bus 2.1 specifications

Topology
Star

Protocol
CSMA/CD

Network Data Transfer Rate
- 100BASE-TX: 100Mbps
- 10BASE-T: 10Mbps

Full Duplex
- Fast Ethernet: 200Mbps
- Ethernet: 20Mbps

Network Cables
- 10BASE-T:
  2-pair UTP Cat. 3, 4, 5 (100 m)
  EIA/TIA-568 100-ohm shielded twisted-pair
  (STP) (100 m)
- 100BASE-TX:
  2-pair UTP Cat. 5 (100 m)
  EIA/TIA-568 100-ohm shielded twisted-pair
  (STP) (100 m)

System

IRQ
Allocated by system

I/O Address
Allocated by system

Cache Buffer
- 2K bit receive FIFO
- 2K bit transmit FIFO

Diagnostic LED Report
- Link
- Activity (Tx/Rx)
- 10/100Mbps speed

Environmental & Physical

Power Consumption
1.05 watts

Dimensions
139 x 73 mm (5.58 x 2.88 inches)

Weight
68 grams (2.4 oz.)

Operating Temperature
$0°$ - $50°$C ($32°$ - $122°$ F)

Storage Temperature
$-25°$ - $55°$ C ($-13°$ - $131°$ F)

Humidity
5 % - 95% non-condensing

Emission
- FCC Class B
- Canada ICES-003 Class B
- CE Mark B
- CISPR Class B
- VCCI Class B

Drivers Supported

- Novell NetWare 3.1x, 4.x ODI driver
- Novell NetWare Client 32
- Microsoft Windows 95, 98
- Microsoft Windows NT 3.51, NT 4.0
- Microsoft Windows for Workgroups 3.11
- Microsoft LAN Manager 2.1
- IBM LAN Support Program 1.3x
- IBM LAN Support Program 1.2.1
- IBM LAN Server 4.0, 3.0, 2.0
- IBM Communication Manager 1.0
- DECnet PathWorks 4.0
- Banyan VINES 4.00
- WIN/TCP PathWay Access for DOS 1.1
- FTP PC/TCP
- SUN PC-NFS
- SCO Unix
- NDIS 2.x, 3.x drivers
- Packet driver
- SCO OpenServer 5.0.x

Remote Boot

Boot ROM Address
Searched by system BIOS

Boot ROM Size
64KB

Boot Servers Supported

- Novell RPL Boot ROM code
- NetWare 3.x, 4.x RPL server
- Microsoft Windows NT 3.51, 4.x RPL server

Ordering Information

10/100Mbps Adapter	
DFE-530TX	10/100Mbps adapter for PCI bus
Boot ROM	
DFE-534	Boot ROM for DFE-530TX

U.S.A.	TEL: 1-714-788-0805	FAX: 1-714-753-7033
Canada	TEL: 1-905-828-0260	FAX: 1-905-828-5669
Europe	TEL: 44-181-235-5555	FAX: 44-181-235-5500
U.K.	TEL: 44-181-235-5555	FAX: 44-181-235-5500
Germany	TEL: 49-6192-97110	FAX: 49-6192-971111
France	TEL: 33-1-30.23.86.88	FAX: 33-1-30.23.86.89
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Sweden	TEL: 46-8-700.62.11	FAX: 46-8-21.96.40
Denmark	TEL: 45-43-96.90.40	FAX: 45-43-42.43.47
Singapore	TEL: 65-774-6233	FAX: 65-774-6322
Australia	TEL: 61-2-9417-7100	FAX: 61-2-9417-1077
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-68467106	FAX: 86-10-68467110
India	TEL: 91-22-617-2478	FAX: 91-22-617-2476
Taiwan	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299