



DFE-550TX

With WOL Function

DFE-550TX 10/100Mbps adapter featuring Wake-On-LAN and other advanced functions for direct connection of high-powered PCs to LAN switches and routers.

10/100Mbps Adapter with Advanced Functions

The DFE-550TX is a high-performance auto-sensing 10/100Mbps network adapter for desktop PCs. The adapter is equipped with advanced features and is an excellent choice for powerful PCs directly connect to a LAN switch in a dedicated bandwidth workstation or high-speed server configuration.

Wake-On-LAN for Power Management

Wake-On-LAN (WOL) is an Advanced Configuration Power Interface (ACPI) function allowing a powered OFF computer to be powered ON from a remote station. This function allows the user to send a Wake-up signal to a computer. The WOL function provides a great utility for power management of PC and allows users to initiate action at irregular times and from distant locations.

High Performance

With 32-bit Bus Master operation, the adapter guarantees the highest performance for power workstations and servers. Bus Master transfers data directly between the adapter and the host at multi-megabits per second, bypassing the host CPU to alleviate its workload. This allows the host to concentrate on the application at hand.

Secure Transmission

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

Flexible Connection

The adapter's single connector connects to either 10BASE-T Ethernet or 100BASE-TX Fast Ethernet. 10/100Mbps and full/half duplex are auto-negotiated, completely without users' need to intervene.

IEEE 802.1p Priority Queues Support

The adapter allows traffic to be queued as critical and non-critical, permitting voice over IP, video-conference and multimedia applications where packets are delivered at Best-effort speeds.

DMI Driver for Desktop Management

The adapter provides a DMI driver for management of the desktop PC independent of the network operating system. This allows the administrator to remote troubleshoot the PC from any platform.

RPL and PXE Remote Boot Options

2 remote boot options are available for selection. Administrators can choose to set up a security scheme for diskless workstations to boot from servers using (1) the traditional Remote Program Load (RPL) or (2) Intel's Pre-boot Execution Environment (PXE). Stations with boot ROMs installed on the adapter's on-board socket can boot O.S. from NetWare, NT and other servers to run applications designated by the administrator.

Features

- 10/100Mbps auto-sensing with single shielded RJ-45 connector
- 32-bit PCI Bus Master operation
- Full/half duplex for 10BASE-T, 100BASE-TX
- Wake-on-LAN (WOL) function
- IEEE 802.3x flow control for connection to LAN switch
- IP multicast address filter mechanism
- Run Win95, 98, 2000, NT, NetWare, Unix, other O.S.
- Optional boot ROM for remote program load from servers
- IEEE 802.1p priority Queues
- IEEE 802.1Q VLAN Tagging

10/100Mbps PCI Adapter

Technical Specifications

General

Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation
- PCI local bus 2.1 specifications
- IEEE 802.3x Flow Control
- IEEE 802.1p Priority Queues
- IEEE 802.1Q VLAN Tagging

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:
 - 2-pair UTP Cat. 3 (100 m)
 - 4-pair UTP Cat. 4, 5 (100 m)
 - EIA/TIA-568 150-ohm screened twisted-pair (STP) (100 m)
- 100BASE-TX:
 - 4-pair UTP Cat. 5 (100 m)
 - EIA/TIA-568B 150-ohm screened twisted-pair (STP) (100 m)

Diagnostic LED Report

- Link/Activity
- Speed
- Full/half duplex

Cache Buffer

- 2K bit receive FIFO
- 2K bit transmit FIFO

System

IRQ

Allocated by system

I/O Address

Allocated by system

Wake-On-LAN

Standards

- Advanced Configuration and Power Interface (ACPI) v.1.0
- Intel Desktop Management Interface (DMI) v.2.0
- Intel Pre-boot Execution Environment (PXE) v.2.0

Methods Supported

- AMD Magic Packet support
- Wakeup Frame and Media Change support

IP Multicast Routing

IP Addressing

Class D

Power Consumption

4.0 watts (maximum)

Dimensions

14 x 7.4 cm
(0.46 x 0.24 inch)

Weight

60g (0.13 pound)

Operating Temperature

0° - 50°C (32° - 122°F)

Storage Temperature

-25° - 55°C (-13° - 131°F)

Humidity

10% -90% non-condensing

Emission

- FCC Class B
- CE Class B
- Canada ICES-003 Class B
- CISPR Class B
- VCCI Class B
- C-Tick
- BSMI Class B

Network O.S. Drivers

- Novell NetWare Server 3.12, 3.2, 4.1X, 4.2, 5.X ODI drivers
- Novell NetWare Client for DOS
- Novell NetWare Client 32 for DOS
- Microsoft Windows 95, 98, 2000
- Microsoft Windows for Workgroups 3.11
- Microsoft Windows NT 3.51, 4.0
- Microsoft LAN Manager 2.1 for DOS
- Microsoft Client for DOS
- Linux (kernel 2.0.X, 2.2X)
- IBM LAN Support Program
- IBM LAN service for DOS
- WIN/TCP PathWay Access for DOS
- FTP PC/TCP
- NDIS2 Driver for DOS
- Packet Driver
- SCO Open Server 5.0X
- LANtastic
- Winsock
- SUN PC-NFS
- NCSA

Remote Boot (Optional)

Boot ROM Address

Searched by system BIOS

Boot ROM Sizes

- RPL boot ROM: 64KB
- PXE boot ROM: 128KB

Boot Servers Supported

- Novell RPL Boot ROM code
- NetWare 3.x, 4.x RPL server
- Microsoft Windows NT 3.51, 4.x RPL server
- Intel PXE 2.0



ACN 052 202 838

Ordering Information

10/100Mbps Adapter

DFE-550TX 10/100Mbps adapter for PCI bus,
With WOL and advanced functions

Optional Boot ROMs

DFE-554 RPL Boot ROM for DFE-550TX
Adapter

DFE-554P PXE Boot ROM for DFE-550TX
adapter

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