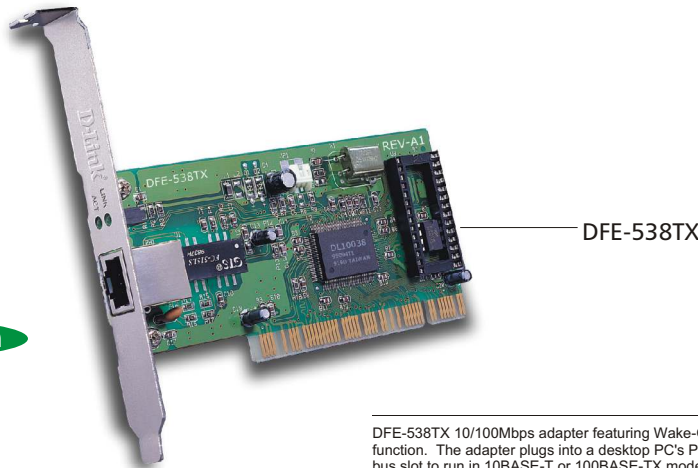


With WOL Function



DFE-538TX 10/100Mbps adapter featuring Wake-On-LAN function. The adapter plugs into a desktop PC's PCI expansion bus slot to run in 10BASE-T or 100BASE-TX mode, half- or full-duplex.

## 10/100Mbps Adapter With Wake-On-LAN Function

The DFE-538TX is a high-performance auto-sensing 10/100Mbps dual-speed adapter for the PCI bus with Wake-On-LAN (WOL) feature – a power management function that supports sleep mode and power-on control from a remote location. Installable in a PC equipped with PCI expansion slots, this adapter turns a desktop into a high-bandwidth graphic/multimedia workstation running at full-duplex speed.

### 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.

### 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 administrator to send wake-up signals to a computer. The WOL function provides a great utility for power management of the PC and allows users to initiate action at irregular times and from distant locations.

### 10/100Mbps Flexible Connection

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

### Full Duplex Support

Full/half duplex operations are auto-negotiated 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 workstation deployment.

### 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.

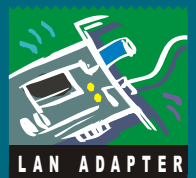
### Network Security

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.

### 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
- Low network command processing overhead
- Runs Win95, 98, NT, NetWare, OS/2, Unix, other OS
- Optional boot ROM for remote program load from servers
- Easy-to-view diagnostic LEDs

# 10/100Mbps PCI Adapter



# 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

#### 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)

### Wake-On-LAN

#### Standard

Advanced Configuration and Power Interface (ACPI) v.1.0

#### Methods Supported

- AMD Magic Packet support
- Wakeup Frame and Media Change support (after Windows 2000 NT 5.0 release, EEPROM firmware Upgradable)

### System

#### IRQ

Allocated by system

#### I/O Address

Allocated by system

#### Diagnostic LED Report

- Link
- Activity

### Physical & Environmental

#### Power Consumption

1.25 watts (max.)

#### Dimensions

120 x 58 mm (47.24 x 22.84 inches)

#### Weight

50 grams (1.76 oz)

#### Operating Temperature

0° - 55° C (0° - 131° F)

#### Storage Temperature

-25° - 70° C (-77° - 158° F)

#### Operating Humidity

10% - 90%

#### Storage Humidity

5% - 90%

### Emission

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

### LAN O.S. & Drivers Supported

- Novell NetWare ODI driver for DOS Client
- Novell NetWare Client 32 for DOS and Windows
- Novell NetWare Server 3.x, 4.x, 5.0
- Microsoft Windows 95, 98
- Microsoft Windows NT 3.51, 4.0
- Microsoft Windows for Workgroups
- Microsoft LAN Manager
- IBM LAN Support Program
- IBM Communication Manager
- IBM OS/2 Warp Server
- IBM OS/2 LAN Server
- Packet driver
- FTP PC/TCP
- Sun PC-NFS
- NDIS drivers
- SCO Unix 4.x, 5.x

### Remote Boot (Optional)

#### 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-538TX** 10/100Mbps adapter for PCI bus, with WOL function

#### Boot ROM

**DFE-538R** RPL boot ROM for DFE-538TX adapter

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