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.

**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
- 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.
# 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 (32° - 131°F)
- **Storage Temperature**: -25° to 70°C (-13° to 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
- Searchable 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
- **DFE-538R**: RPL boot ROM for DFE-538TX adapter

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**D-Link Corporation**

[Address Information]

**Technical Support**
- 1-949-788-0805
- 1-905-829-5033
- 44-181-235-5555
- 49-(0)6192-97110
- 33-1-30.23.86.88
- 39-2-2900-0676
- 46-8-700.62.11
- 45-43-96.90.40
- 65-774-6233
- 61-2-9417-7100
- 81-3-5434-9678
- 86-10-68467106
- 91-22-617-2478
- 202-2456176
- 56-232-3185
- 886-2-2910-2626
- 886-2-2916-1600

**D-Link Asia Pacific**

[Address Information]

**Technical Support**
- 0800-517-222
- 03-5166-9700
- 02-5417-9700
- 03-5139-9700
- 02-5179-9700
- 02-5147-9700
- 03-5168-9700
- 03-5166-9700
- 02-5417-9700
- 02-5179-9700
- 02-5147-9700
- 03-5168-9700
- 02-5417-9700
- 02-5179-9700
- 02-5147-9700

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This document contains general information for D-Link 10/100Mbps PCI Adapter. For more detailed information, please refer to the product manual and support documents.

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**Certifications**

[List of certifications]

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**About D-Link**

D-Link Corporation is a leading worldwide developer, manufacturer, and supplier of networking products. Founded in 1983, the company operates in North America, South America, Europe, the Middle East, Africa, and Asia Pacific. D-Link offers a wide range of networking products, including wired and wireless networking solutions. D-Link is committed to providing high-quality, reliable networking products to meet the needs of businesses and consumers worldwide. For more information, visit [D-Link official website].

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**Contact Information**

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