

Product Highlights

Auto-Sensing

Connects to either 10BASE-T or 100BASE-TX without requiring any additional configuration

High-Speed Transfer Rate

Experience up to 200 Mbps network speed when connected in full-duplex mode

Secure Flow Control

Embedded Flow Control technology protects your data against possible loss during transmission over the network



DFE-520TX

Fast Ethernet PCI Network Adapter

Features

Connectivity and Performance

- Full and half-duplex support for both 10BASE-T and 100BASE-TX
- Auto-negotiation support
- Compliant with Advanced Configuration and Power Interface (ACPI) specification v1.0
- Compliant with PCI Power Management v1.1
- On-board FIFO buffer eliminates external memory requirement
- Low-Ethernet command processing overhead
- Real-time LEDs for diagnostics (100M, LINK/ACT)
- Low power consumption

Versatility and Compatibility

- Compliant with IEEE 802.3i/802.3u
- Supports 32-bit PCI v2.3
- Plug-and-Play
- Complete driver support
- Supports 4 Wake-on-LAN (WoL) signals (active high, active low, positive pulse, negative pulse)
- Supports IEEE 802.3x Flow Control

D-Link's DFE-520TX Fast Ethernet PCI Network Adapter is a high-performance, cost-efficient, auto-sensing 10/100 Mbps dual-speed PCI adapter. It can be installed in any PC equipped with a PCI expansion slot. This card makes extensive use of the single-chip technology and is equipped with an on-board FIFO buffer, providing your computer with a fast, reliable connection to an Ethernet network.

Powerful Performance

The DFE-520TX operates in the 32-bit Bus Master mode, delivering throughputs of multiple megabits per second, with little stress on the host's CPU. The module transfers data directly to and from the host's memory, bypassing bottlenecks in the system and alleviating the CPU's workload. This allows your computer to concentrate on the application at hand, instead of the network operation task.

Versatile Functionality

The DFE-520TX's single connector connects to either 10BASE-T Ethernet or 100BASE-TX Fast Ethernet without the need for any configuration. It automatically detects and negotiates the highest available speed and duplex mode with the connected device for both 10BASE-T and 100BASE-TX modes.

Secure Flow Control Transmission

In the fast 200 Mbps full-duplex mode, the card's embedded Flow Control provides a means to protect your data against possible loss during transmission over the network. When connected to a LAN switch that supports Flow Control, the card receives signals from the switch regarding network congestion during peak usage periods. The card then delays transmission until the switch is ready again to accept new data¹.

Technical Specifications

General

Standards	<ul style="list-style-type: none"> • IEEE 802.3i 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3x Flow Control 	<ul style="list-style-type: none"> • ANSI/IEEE 802.3 NWay auto-negotiation • PCI local bus 2.3 specifications
Protocol	<ul style="list-style-type: none"> • CSMA/CD 	
Network Data Transfer Rate	<ul style="list-style-type: none"> • 100BASE-TX: <ul style="list-style-type: none"> • Half-duplex: 100 Mbps • Full-duplex: 200 Mbps 	<ul style="list-style-type: none"> • 10BASE-T: <ul style="list-style-type: none"> • Half-duplex: 10 Mbps • Full-duplex: 20 Mbps

Functionality

Supported Drivers	<ul style="list-style-type: none"> • Microsoft Windows 10 32/64-bit InBox driver (built into the OS) • Microsoft Windows 8.1 32/64-bit • Microsoft Windows 8 32/64-bit • Microsoft Windows 7 32/64-bit • Microsoft Windows Vista 32/64-bit • Microsoft Windows XP 32/64-bit • Microsoft Windows Server 2012 • Microsoft Windows Server 2008 	<ul style="list-style-type: none"> • Microsoft Windows Server 2003 • Microsoft Windows Server 2000 • Linux driver (built into the OS) • DOS NDIS2 • DOS Diagnostic Program (configures Flow Control) • Packet driver • Netware Server v6.x/5.x • Netware ODI driver for DOS • UnixWare 7.x
Additional Functions	<ul style="list-style-type: none"> • Wake-on-LAN: <ul style="list-style-type: none"> • Active high • Active low • Positive pulse • Negative pulse 	

Physical

Network Cables	<ul style="list-style-type: none"> • 10BASE-T: 2-pair STP/UTP Cat. 3, 4, 5 (max. 100 m) EIA/TIA-568 100 ohm (max. 100 m) 	<ul style="list-style-type: none"> • 100BASE-TX: 2-pair STP/UTP Cat. 5 (max. 100 m) EIA/TIA-568 100 ohm (max. 100 m)
Diagnostic LED Report	<ul style="list-style-type: none"> • 100M (speed) 	<ul style="list-style-type: none"> • LINK/ACT
Dimensions	<ul style="list-style-type: none"> • 120 x 20 mm (4.72 x 0.79 inches) 	
Power Consumption	<ul style="list-style-type: none"> • Max: 0.37 W 	
Temperature	<ul style="list-style-type: none"> • Operating: 0 to 40 °C (32 to 104 °F) 	<ul style="list-style-type: none"> • Storage: -25 to 55 °C (-13 to 131 °F)
Humidity	<ul style="list-style-type: none"> • Operating: 5% to 90% non-condensing 	
Certifications	<ul style="list-style-type: none"> • CE Class B • FCC Class B 	<ul style="list-style-type: none"> • C-Tick

DFE-520TX Fast Ethernet PCI Network Adapter

Order Information	
<i>Part Number</i>	<i>Description</i>
DFE-520TX	Fast Ethernet PCI Network Adapter

¹ Flow Control functionality is disabled by default. This feature can be enabled through the DOS Diagnostic Program.

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