D-Link®
Building Networks for People

100Base-FX fiber based Network Adapter

DFE-550FX

- 100Mbps Fast Ethernet Fiber Connection
- 32-bit PCI Bus Master Operation
- Full/half Duplex Support
- Wake-on-LAN (WOL) for Power Management
- IEEE 802.3x Full-duplex Flow Control
- IEEE 802.1Q VLAN Support
- IEEE 802.1p Priority Tagging
- Multi-OS Support
- Optional Boot ROM for Remote Program Load from Servers

Optical Fiber Fast Ethernet Card

The DFE-550FX is a 100Base-FX Multimode fiber based network card supporting transfer speeds of up to 200Mbps in full duplex mode and cable distances up to 2km. It can be used in either workstations or servers and supports advanced features such as WOL (Wake-on-LAN management), 802.3x Flow control, 802.1Q VLAN support, and 802.1p priority tagging.

High Performance
With 32-bit bus master operation, the DFE-550FX guarantees the highest level of performance. Bus mastering guarantees data is passed directly between the card and the host bypassing the host CPU and reducing added workload and CPU overhead. This in turn improves network and host performance.

Wake-on-LAN Power Management
The DFE-550FX supports Advanced Configuration Power Interface (ACPI) Wake-On-LAN (WOL), which allows your computer to be powered ON/OFF from a remote location. Providing a great utility for power management, this function allows the administrator

to send a 'wake-up' signal to a computer or server to initiate a power-up sequence.

802.3x Flow Control to Minimize Packet Loss
The DFE-550FX supports 802.3x flow control. This provides a means to protect against possible data loss during transmission on the network. When connected to a Fast Ethernet switch that also supports flow control, the card receives signals from the switch regarding buffer overrun during peak usage periods. The card then delays transmission until the switch is ready again to accept new data.

802.1Q VLAN to Improve Performance and Security
The DFE-550FX supports IEEE 802.1Q VLAN tagging, allowing you to segment the network into smaller domains to improve performance and security. The DFE-550FX provides a VLAN table for the following functions: filtering packets by recognizing VLAN Tags, stripping VLAN Tags on receive, and inserting VLAN Tags on transmit.

Optical Fiber Fast Ethernet Card

IEEE 802.1p Priority Queues Support

With packet prioritization capability, the DFE-550FX allows traffic to be queued as critical and non-critical, permitting your computer to run Voice over IP (VoIP), video-conferencing/ multimedia applications and other time-sensitive traffic with higher priority than non-critical data. This in turn helps to eliminate jitter and lag in multimedia streams.

RPL and PXE Remote Boot Options

With RPL (Remote Program Load) and PXE (Pre-boot Execution Environment) support, administrators can choose to set up a security scheme for diskless workstations to boot from. Stations with boot ROMs installed on the on-board socket can boot from NetWare, NT and other servers to run applications designated by the administrator.

SPECIFICATIONS

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

Drivers Supported
• Microsoft Windows Server 2003
• Microsoft Windows XP/2000
• NDIS 3 driver
• NDIS 4 driver
• NDIS 5 driver
• Novell Netware Server 4.1X
• Novell Netware Server 5.X
• Novell Netware Server 6.X
• Linux : kernel v2.4.x

Standards
• IEEE 802.3u standard 100Mbps Ethernet 100Base-FX
• PCI local bus 2.2 specifications
• IEEE 802.3x Flow Control
• IEEE 802.1Q VLAN tagging
• IEEE 802.1p priority tagging
• Advanced Configuration and Power Interface (ACPI) v.1.0

Network Media
Media interface: SC 62.5/125 micron multimode fiber-optics (2km at full-duplex, 412m at half-duplex)

Diagnostic LEDs
• Link
• Activity (Tx/Rx)
• Full duplex

Power Consumption
1.5 Watts max

Temperature
• Storage: -13 ° ~ 131 °F (-25 ° ~ 55 °C)
• Operating: 32 ° ~ 122 °F (0 ° ~ 50 °C)

Humidity
10% to 90% non-condensing

Compliances
• FCC Class B
• VCCI Class B
• CE Class B
• C-Tick
• BSMI

Dimensions
4.73 x 2.88 inches (120 x 73 mm)

Weight
0.26 lb. (120g)

Remote Boot (Optional)
Boot ROM Address
• Searched by system BIOS
Boot ROM Flash Memory
• RPL boot ROM: 2KB
• PXE boot ROM: 2KB
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

Warranty
• 1-Year

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