DFE-680TX

Media Coupler

DFE-680TXD

Direct Port

DFE-680TX dual-speed Ethernet/Fast Ethernet
CardBus card with media coupler (left),
DFE-680TXD dual-speed Ethernet/Fast Ethernet
CardBus card with directport (right).

High-performacne 10/100Mbps CardBus Cards for Mobile Users

The DFE-680TX and DFE-680TXD are a high-performance network cards for notebook PCs equipped with CardBus slots. Designed for use with the 32-bit PC Card CardBus, these PC Cards permit users on the move to easily connect to a network and share databases and resources in diverse Environments.

32-bit High Performance
These PC Cards transfer data between the network and the PC host using the 32-bit CardBus. With large data buffers built-in, they are engineered to unleash the power of today's notebooks and turn them into robust stations or servers.

Direct Port Eliminates Need for Cable
2 models are available for selection:
DFE-680TX connecting the PC Card to the network through a media coupler, and DFE-680TXD directly connecting the PC Card to the network without the need for any media cable.

NWay Auto-negotiation
The cards' single connector connects to either 10BASE-T Ethernet or 100BASE-TX Fast Ethernet completely without any need to set configuration. It detects the connected network speed and auto-negotiates to transfer data at either 10Mbps or 100Mbps.

Full Duplex Support
Full/half duplex operation is auto-detected in both 10BASE-T and 100BASE-TX modes. In full-duplex, the notebook is connected to a switch on a dedicated segment. With transmission and reception taking place simultaneously, data transfer is doubled. Mobile users can thus hook to a network and turn their notebooks into power servers.

Complete Compatibility
The cards are compatible with all major notebook and sub-notebook PCs, support all main Socket and Card Services, and Provide driver programs for all popular networking operating systems.

Key Features

- *10/100Mbps dual-speed NWay interface*
- *32-bit high-performance data transfer to host*
- *Half/full duplex support*
- *Single RJ-45 shielded connector*
- *Choices of direct port connection or through media coupler*

- *Very low power consumption*
- *PC Card hot swap support*
- *Auto-correction of reverse polarity*
- *Easy-to-view diagnostic LEDs*
- *Complete driver support*

DFE-680TX/680TXD
Technical Specifications

General
Standards
- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- ANSI/IEEE Std 802.3 NWay auto-negotiation
- PC Card

Topology
Star

Protocol
CSMA/CD

Network Data Transfer Rates
- Ethernet:
  10Mbps half-duplex
  20Mbps full-duplex
- Fast Ethernet:
  100Mbps half-duplex
  200Mbps full-duplex

Network Media
- 10BASE-T:
  UTP Cat. 3, 4, 5 (100 m)
- 100BASE-TX:
  UTP Cat. 5 (100 m)
- 10BASE-T, 100BASE-TX:
  UTP Cat. 5 (100 m)
  EIA/TIA-568 100-ohm STP (100 m)

Connectors
- 68-pin for connection to CardBus slot
- 15-pin for connection to media coupler

Card-to-Host Data Transfer
Bus Master mode

Card and Socket Service Support
- PC Card standard
- Windows NT 4.x direct enabler
- DOS/Windows 3.1 direct enabler

Diagnostic LED Report
- Link, Act (Tx, Rx)
- 100Mbps speed indicator
- Full duplex indicator

IRQ
Auto-assigned by BIOS or Card Service

I/O Address
Auto-assigned by BIOS or Card Service

Physical & Environmental
Power Consumption
- Operation: 380mA (max.)
- Power down: 50mA

Dimensions
- DFE-680TX base unit: 85.6 x 54 x 3 mm
  (3.37 x 2.12 x 0.12 inches)
- DFE-680TXD: 120 x 54 x 3 (13) mm
  (47.24 x 2.12 x 0.12 (0.51) inches)

Weights
- DFE-680TX base unit: 30 grams (1.06 oz.)
- DFE-680TX media coupler: 25 grams (0.88 oz.)
- DFE-680TXD: 54 grams (1.90 oz.)

Operating Temperature
0° - 60°C (32° - 140°F)

Storage Temperature
- 20° - 70°C (4° - 158°F)

Humidity
10% - 90% non-condensing

Emission (EMI)
- FCC Class B
- CE Class B
- VCCI Class B

Network O.S. Support
- Microsoft Windows NT 3.5x, 4.x
- Microsoft Windows 95 OSR2, 98, 2000
- Linux driver ready
- FTP PC/TCP
- Packet driver

ACN 052 202 838

Ordering Information

10/100Mbps CardBus PC Cards
DFE-680TX 10BASE-T/100BASE-TX dual-speed CardBus Card with media coupler
DFE-680TXD 10BASE-T/100BASE-TX Dual-speed CardBus Card with Direct Port

D-Link®