



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

High-performance 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)

10/100Mbps LAN PC Cards



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®

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