



DGE-530T

DGE-530T copper Gigabit PCI card for desktop PC

10/100/1000Mbps Copper Gigabit PCI Card for PC

The DGE-530T is a 10/100/1000Mbps copper Gigabit PCI card for desktop PC. Installable in a PC equipped with PCI expansion slots, this card turns a desktop computer into a high-bandwidth Gigabit workstation or a server running at 2000Mbps full-duplex speed.

High-performance Gigabit Speed

Capable of running at full-duplex Gigabit speed, this card gives your PC 2000Mbps data transmission on your existing Cat. 5 twisted-pair network cable. As an inexpensive alternative solution to fiber-optic, the card allows you to instantly upgrade to Gigabit without requiring you to install new, expensive fiber cables. The card supports 10/100/1000Mbps network speed auto-sensing and full/half duplex auto-negotiation.

VLAN to Improve Performance and Security

The card provides on-board screening of VLANs Tagged Ethernet frames, allowing your PC to be configured with a VLAN-supported switch. Your PC can be part of a VLAN network, where domains are segmented up to enhance performance and security.

Flow Control to Minimize Packet Loss

The card's embedded flow control and independent FIFO for each port provide a means to protect against possible data loss during transmission on the network. When connected to a Gigabit switch Supporting 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.

Small Form Factor, Lower Power Requirement

Using a single chip solution, this card is very small in size and consumes very little power of your computer system.

802.1p Priority Queues Support for Quality of Service

This card supports 802.1p standard packet prioritization. When the card is connected to an Ethernet switch that also supports this function, if you enable this function on the DGE-530T card, data outflow from your computer to the switch will be queued for transmission on the network. This permits your computer to run smoothly bandwidth-sensitive audio/video streaming applications and on-line games, where packets are delivered at best-effort speeds.

ACPI 2.0 Wake-On-LAN for Power Management Support

The card supports Wake-On-LAN (WOL) Advanced Configuration Power Interface (ACPI) function, allowing the computer to be powered ON or OFF from a remote station. This function allows an administrator to send a Wake-up signal to the DGE-530T. The WOL function provides a great utility for power management of the computer and allows the network administrator to initiate actions at irregular times from distant locations.

Key Features

- Copper Gigabit connection for PC
- 10/100/1000Mbps auto-sensing speeds
- 2000Mbps Gigabit full duplex support
- 32-bit Bus Master operation
- Supports PCI clock speed at 33MHz
- 802.3x Flow Control for fast, reliable data transmission
- Supports ACPI 2.0 WOL power management
- Supports SNMP v.1
- Supports 802.1Q VLAN Tagging
- Supports 802.1p Priority Queues
- PCI 2.2 plug-and-play
- Universal bus 3.3V support
- Operates in Windows, NetWare, Linux and Mac OS environments
- Very small size, very low power consumption

DGE-530T

Technical Specifications

10/100/1000Mbps PCI Card

Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation
- PCI local bus 2.2 specifications
- Universal Bus Support 3.3V
- IEEE 802.3x Flow Control
- IEEE 802.1Q VLAN tagging
- IEEE 802.1p Priority Queues

Topology

Star

Protocol

CSMA/CD

Data Transfer Rates

- Ethernet:
 - 10Mbps (half duplex)
 - 20Mbps (full duplex)
- Fast Ethernet:
 - 100Mbps (half duplex)
 - 200Mbps (full duplex)
- Gigabit Ethernet:
 - 2000Mbps (full duplex)

Network Cables

- 10BASE-T:
 - UTP Cat. 3, 4, 5 (100 m max.)
 - EIA/TIA-586 100-ohm STP (100 m max.)
- 100BASE-TX, 1000BASE-T:
 - UTP Cat. 5 (100 m max.)
 - EIA/TIA-568 100-ohm STP (100 m max.)

Diagnostic LED Report

- Link/Active
- Full duplex
- 1000Mbps
- 100Mbps

Flow Control

- IEEE 802.3x flow control per for full duplex
- Back pressure in half duplex

System Setup

IRQ

Allocated by system

I/O Address

Allocated by system

Full/half Duplex

- Full duplex only (1000Mbps)
- Full/half duplex (10/100Mbps)

Environmental & Physical

Operating Temperature

0° - 40°C

Storage Temperature

-25° - 55°C

Humidity

5% - 90% non-condensing

Emission

- FCC Class B
- CE Class B
- C-Tick
- BSMI Class B

Network O.S. Support

- Microsoft Windows 98 SE, NT 4.0, ME, 2000, 2003, 32-bit XP, 64-bit XP
- Novell Netware 4.2, 5.x, 6.x
- Linux kernel 2.2.x, 2.4.x, 2.6.x
- Mac OS 10.2.x, 10.3.x
- DOS ODI client driver
- NDIS 2 driver



Ordering Information

Copper Gigabit PCI Card

DGE-530T 10/100/1000Mbps PCI card

D-Link®

Specifications subject to change without prior notice.
D-Link is a registered trademark of D-Link Corporation/D-Link System Inc. All other trademarks belong to their proprietors.

U.S.A	TEL: 1-800-326-1688	FAX: 1-866-743-4905
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223
Europe (U. K.)	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Netherlands	TEL: 31-10-282-1445	FAX: 31-10-282-1331
Belgium	TEL: 32(0)2-517-7111	FAX: 32(0)2-517-6500
Italy	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Norway	TEL: 47-99-300-100	FAX: 47-22-309580
Finland	TEL: 358-9-2707 5080	FAX: 358-9-2707-5081
Spain	TEL: 34-93-4090770	FAX: 34-93-4910795
Portugal	TEL: 351-21-8688493	
Czech Republic	TEL: 420-(603)-276-589	
Switzerland	TEL: 41-(0)-1-832-11-000	FAX: 41(0)-1-832-11-01
Greece	TEL: 30-210-9914 512	FAX: 30-210-9916902
Luxemburg	TEL: 32-(0)2-517-7111	FAX: 32-(0)2-517-6500
Poland	TEL: 48-(0)-22-583-92-75	FAX: 48-(0)-22-583-92-76
Hungary	TEL: 36-(0)-1-461-30-00	FAX: 36-(0)-1-461-30-09
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
India	TEL: 91-022-26526696	FAX: 91-022-26528914
Middle East (Dubai)	TEL: 971-4-3916480	FAX: 971-4-3908881
Turkey	TEL: 90-212-289-56-59	FAX: 90-212-289-76-06
Egypt	TEL: 202-414-4295	FAX: 202-415-6704
Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
LatinAmerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brazil	TEL: 55-11-218-59300	FAX: 55-11-218-59322
South Africa	TEL: 27-12-665-2165	FAX: 27-12-665-2186
Russia	TEL: 7-095-744-0099	FAX: 7-095-744-0099 #350
China	TEL: 86-10-58635800	FAX: 86-10-58635799
Taiwan	TEL: 886-2-6600-0123	FAX: 886-2-6600-8168
Headquarters	TEL: 886-2-6600-0123	FAX: 886-2-6600-9898