



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.

### 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 \*
- PCI 2.2 plug-and-play
- Universal bus 3.3V & 5V support
- Runs Win98 SE, 2000, ME, NT, XP, NetWare, Linux, Unix
- Very small size, very low power consumption

\* Available in next version.

# DGE-530T

## Technical Specifications

## 10/100/1000Mbps PCI Card

### General

#### 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, 5V
- IEEE 802.3x Flow Control
- IEEE 802.1Q VLAN tagging \*

#### 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
- VCCI Class B \*
- C-Tick
- BSMI Class B

### Network O.S. Support

- Microsoft Windows NT, 2000, 98SE/ME, XP
- Novell Netware 4.2, 5.x, 6.x, ODI 1.11
- Linux 2.0, 2.2 \*
- SCO UnixWare 7.0 \*
- SCO OpenServer 5.05 \*
- Red hat Linux 7.3 (kernel 2.4.18 - 3) and later



ACN 052 202 838

## Ordering Information

### Copper Gigabit PCI Card

DGE-510T 10/100/1000Mbps PCI card

# D-Link®

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RECYCLABLE  
Rev. 01 (Mar. 2003)  
Printed in Taiwan

\* Available in next version.