

➤ PCIE-DGE560T

➤ PCI Express Gigabit Network Adapter



The PCIE-DGE560T PCI Express Gigabit Network Adapter is a high performance adapter designed for the high-speed PCI Express Bus Architecture. It offers increased bandwidth, reliability, and more functionality than standard PCI network cards and it is specifically designed to allow throughput at rates up to 2Gbps, eliminating the bottleneck that exists with current 32 and 64 bit PCI bus architectures. With support for advanced features such as: 802.3x flow control, SNMP for network monitoring and management, and Jumbo Frames, interoperability with your current networking equipment, and network feature sets will not be an issue.

Advance Features and Security

The card features on-board screening of 802.1Q VLAN Tagged Ethernet frames, allowing you to assign multiple subnets to each server and isolate devices within each VLAN from the rest of the network for better traffic control and security. It supports 802.1P Priority Tagging to allow you to prioritize traffic and it supports 802.3ad Link Aggregation which provides a means to increase bandwidth to workstations and servers by "Trunking" multiple cards together forming one large bandwidth pipe. In today's overpopulated and bandwidth starved networks, 802.3ad Link Aggregation can dramatically improve performance on over burdened LAN servers. When using multiple cards, the PCIE-DGE560T has the ability to provide fail over protection if one network card malfunctions-- your server or workstation traffic is simply passed to the remaining functional network card connections, guaranteeing safe, uninterrupted, transmission of data while a replacement card is installed. Best of all, with the PCIE-DGE560T's "Hot-Plug" support, a replacement card can be installed without ever having to power down your system.¹ The PCIE-DGE560T also supports TCP, UDP, and IP Checksum Calculation and TCP Segmentation to improve overall system performance by shifting processor intensive tasks away from your host CPU.

Remote Manageable

The PCIE-DGE560T includes many additional features such as Advanced Power Management and Wake-on-LAN support. It supports remote network boot using both PXE and RPL, allowing the network administrator to boot the PC from anywhere on the network. The PCIE-DGE560T supports all major Operating Systems including Windows 2000, XP, and 2003, guaranteeing compatibility with existing server and workstation environments. It even features a cable diagnostic utility which will automatically detect when you have a bad cable, making your troubleshooting much easier. With its advanced features, high-performance architecture, and reliability, the PCIE-DGE560T is the perfect solution for any network that requires a high-performance Gigabit network card at an affordable price.

Features of the PCIE-DGE560T:

- High-Performance X1 PCI-e Serial Link
- Plug-and-Play Support
- Auto-Negotiation 10/100/1000Mbps
- 802.1P Priority Tagging²
- 802.1Q VLAN Tagging²
- 802.3x Flow Control
- 802.3ad Link Aggregation²
- Jumbo Frame Support (up to 9K)
- SNMP v1 Support²
- ACPI 2.0 / Wake-on-LAN
- TCP, UDP, IP Checksum Calculation
- TCP Segmentation
- Windows 2003/2000/XP
- Novell Netware 4.2-4.6
- Linux 2.2/2.6

► PCIE-DGE560T Technical Specifications

Product/Performance specifications

PCIE-DGE560T

- PCI Express Gigabit Network Adapter

QoS

- Support for 802.1P Priority Tagging

VLANs

- Support for 802.1Q VLANs

Cable Diagnostics

- Advanced Cable Diagnostics Utility

Power Management

- Wake-On-LAN and ACPI 2.0

Flow Control

- Support for 802.3x Flow Control

Link Aggregation

- Support for 802.3ad Link Aggregation

PCI-e Bus

- X1 PCI Express Serial Link

Network Management

- SNMP v1 Support

Supported OS

- Windows 2003/2000/XP,
- Linux 2.2/2.6,
- Netware 4.2-4.6

Host Offload

- TCP, UDP, IP checksum calculation
- TCP segmentation

Interface Options

RJ-45

- 10BASE-T, 100BASE-TX, 1000BASE-T

Network Management

- SNMP v1 & Integrated Cable Diagnostics, PXE, RPL

Network Protocols and Standards

IEEE

- 802.3 Ethernet
- 802.3u Fast Ethernet
- 802.3ab Gigabit Ethernet
- 802.3x Flow Control
- 802.1Q VLAN tagging
- 802.1P Priority Tagging
- 802.3ad Link Aggregation
- RFC 1157 SNMP

Electrical & Emissions Summary

Emissions

- CE
- VCCI
- FCC Class B

Power Requirements

- 3.3 Volt on V(aux) of PCI-Bus, internal 3.3V, 2.5V, 1.5V
- 2.3 Watts max

Safety Agency Certifications and Environmental

Temperature

- Operating: 0° - 50° C (32° - 122° F)
- Storage: -20° - 70° C (-4° - 158° F)

Humidity

- Operating: 30% to 80% RH, Non-Condensing
- Storage: 10% to 95% RH, Non-Condensing

Physical Specifications

Dimensions

- 87 x 56mm (3.4in x 2.2in)

Corporate Offices

US/Canada
14118 Stowe Drive
Poway, CA 92064-7147

Tel. (858) 677-0877
Fax (858) 677-0898

sales@us.kontron.com

Europe, Middle East and Africa
Oskar-von-Müller-Strasse 1
D-85386 Eching/Munich Germany

Tel. +49 (0) 800-7253756
Fax +49 81-65 77 219

sales@kontron.com

Asia Pacific
4F. No. 415, Ti-Ding Blvd., Sec. 2,
NeiHu District, Taipei 114, Taiwan

Tel. +886 2 2799 2789
Fax +886 2 2799 7399

sales@kontron.com.tw



kontron

www.kontron.com