

GE3000 Series

PCI Express Gigabit Ethernet Adapter

DIREKTRONIK

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Overview

EtherWAN GE3000 PCI Express Gigabit Ethernet adaptor supports PCI Express 1.0a bus interface and provides significant high-bandwidth performance over existing conventional PCI architecture. Microsoft NDIS5 (IP, TCP, UDP) checksum checking calculation and TCP segmentation/large send are offloaded from CPU and I/O of host system to improve system performance. Advanced Configuration Power Management Interface (ACPI) 2.0 and Wake-on-LAN (WOL) provide efficient minimal power operation and sleep states. GE3000 supports IEEE802.1Q VLAN Tagging to enable VLANs for network segmentation and security. It also supports IEEE 802.1p Layer 2 Priority Tagging to prioritize traffic.

GE3000 can be managed remotely since it complies with RFC 1157 SNMP v1. It also provides Preboot Execution Environment (PXE) 2.1 to remotely boot workstations and thin clients on the network.

Features

- ▶ PCI Express 1.0a compliant
- ▶ TCP segmentation/large send offload
- ▶ Advanced Configuration Power Management Interface (ACPI) 2.0
- ▶ Supports Wake-on-LAN remote wake-up (GE3000TX only)
- ▶ IEEE802.1Q VLAN Tagging
- ▶ IEEE802.1p Layer 2 Priority Tagging
- ▶ Preboot Execution Environment (PXE) 2.1
- ▶ Microsoft NDIS5 (IP, TCP, UDP) checksum offload
- ▶ RFC 1157 SNMP v1 compliant
- ▶ Cable diagnostic utility
- ▶ Supports Jumbo Frame up to 7K (Vista) and 4K (XP and other OS)
- ▶ 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- ▶ 0°C to 45°C (32°F to 113°F) operating temperature range

Ordering Information

GE3000TX	10/100/1000BASE-TX Gigabit Ethernet Adapter
GE3000SX	1000BASE-SX Multi Mode (SC) Fiber Gigabit Ethernet Adapter
GE3000LX-10	1000BASE-LX Single Mode (SC) -10Km Fiber Gigabit Ethernet Adapter
GE3000LX-20	1000BASE-LX Single Mode (SC) -20Km Fiber Gigabit Ethernet Adapter

Specifications

Technology

Standards:

- IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3ab 100BASE-T, IEEE802.3z 1000BASE-SX/1000BASE-LX, IEEE802.3x, IEEE802.1Q, IEEE802.1p

Protocols:

- SNMP V1

Processing Type:

- IEEE802.3x full-duplex flow control

Driver

- Microsoft Windows 2000/ XP/ 2003/ Vista(32bit/64bit), Windows 7(32bit/64bit)
- Linux 2.4x/2.6x
- Novell Netware 5.x/6.x

Power

Power Consumption:

- 2.3W Max.

Mechanical

Dimensions:

- 125mm (L) x 121mm (W)
(4.92" (L) x 4.76" (W))

Weight:

- 80g (0.18lb.)

Interface

Ethernet Port:

- Gigabit: 1port

LED Indicators:

- Per Unit: Link, Activity

Environment

Operating Temperature:

- 0°C to 45°C (32°F to 113°F)

Storage Temperature:

- -10°C to 70°C (14°F to 158°F)

Ambient Relative Humidity:

- 5% to 95% (non-condensing)

Regulatory Approvals:

ISO:

- Manufactured in an ISO9001 facility.

Emission Compliance:

- CE Mark Class B, FCC Part 15 Class B

Diagrams

