

Xpresso GE2000 Series

Gigabit Ethernet Adapter
32/64-bit 10/100/1000T PCI NIC
32/64-bit 1000SX/LX PCI NIC

Full-Scalability:

For 10/100/1000Mbps networking environment, EtherWAN presents Xpresso GE2000 Series Gigabit NIC Adaptor. Xpresso GE2000 Series is a high performance network interface card series available in both 64bit and 32bit PCI local bus. This adapter auto-negotiates speed between 10/100/1000Mbps and full/half duplex modes. In addition, it supports auto-MDIX for straight or crossover cables.

Increased Bandwidth:

Operating under IEEE 802.3u 10/100Base-T/TX, IEEE 802.3ab 1000Base-T twisted pair, and IEEE 802.3z 1000Base-SX specifications, Xpresso GE2000 Series provides up to ten times the bandwidth of Fast Ethernet. This adapter provides independent reception and transmission buffer with packet bursting across the PCI buss to dramatically increase the throughput. Intelligent interrupt management and TCP/IP and UDP checksum off-loading minimizes CPU host time. Operating in full duplex mode on a 64bit PCI local bus, it delivers an extremely high level of throughput to the host computer.



GE2000T
Copper Gigabit Ethernet NIC



GE2000SX/LX
Fiber Gigabit Ethernet NIC

Key Feature

- GE2000T:
 - Support Auto-MDIX, IEEE802.3u 10/100Base-T/TX and IEEE 802.3ab 1000Base-T Auto-negotiation.
- GE2000SX/LX:
 - Conforms to IEEE 802.3z 1000Base-SX standards.
- Full-duplex operation provides 2Gbps of Bandwidth.
- Auto-negotiates full/half duplex mode.
- Compatible with PCI local bus specification Rev. 2.2 for 64bit and 32bit local bus.
- Independent receive and transmit buffers stream data to and from memory.
- Intelligent interrupt management and TCP/IP checksum off-loading reduces CPU utilization.
- Jumbo Frame Support boosts throughput for bulk data transfer.
- Port status LEDs.

DIREKTRONIK

e-mail: info@direktronik.se
tel: 08-52 400 700 fax: 08-520 18121

Technical Specification

LED:	LNK, ACT
Ethernet Standards:	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T; IEEE 802.3z 1000Base-SX/LX, PCI Local Bus Specification, Rev. 2.2
Cable:	10Base-T 2-pair UTP Cat. 3, 4, 5, up to 100m 100Base-TX 2-pair UTP Cat. 5, up to 100m 1000Base-T 4-pair UTP Cat. 5, up to 100m 1000Base-SX 62.5/125um Multi-mode fiber optic cable, up to 220m 1000Base-SX 50/125um Multi-mode fiber optic cable, up to 550m
Flow Control:	IEEE 802.3x full-duplex Flow Control
Packet Propulsion:	Bursts small packets across the PCI bus to increase throughput
Jumbo Frame Support:	Configurable packet-size threshold for PCI bus packet bursting
System Clock:	Up to 66Mhz
Data Interface:	64- and 32-bit
I/O Address:	Automatically determined by configuration space

Physical Specification

Power:	+5VDC, 900mA, 5W max.
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature:	-25°C ~ 70°C (-13°F ~ 158°F)
Humidity:	10% ~ 90% non-condensing
Dimension:	W109mm x D83mm x H22mm (4.29" x 3.27" x 0.94")
Net Weight:	80g (2.08oz)
Emissions Compliance:	CE & FCC

Driver Support

NDIS drivers for Microsoft Windows 95/98/ME, Windows NT4.0, 2K or later
Novell Netware Server 5.0
Linux 2.0.35 or later
Y2K Compliant

Ordering Information

GE2000T 64/32bit PCI bus 10/100/1000Base-T Gigabit Ethernet Adapter