



***High Performance 2/4/6 Port
Gigabit Ethernet
Adapters for Intel and AMD based
Server and PC platforms***

NX-PCGXx/xi-TA

NEMONIX™ Engineering, Inc.
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2/4/6 Port Gigabit Ethernet Controllers

For Intel and AMD based Server and PC systems

NEMONIX™ Engineering Inc. 2/4/6 port Gigabit Ethernet adapter for Intel and AMD based Server and PC platforms offer exceptional performance. They are designed for easy plug-and-play installation utilizing an available PCI or PCI-X slot. The Gigabit Ethernet Adapters offers increased networking capabilities for all platforms, and are 10/100 compatible. They do not interfere with the existing Ethernet ports.

Supported Operating Systems:

• Windows NT/XP/98/2000
• Windows.net
• Linux
• Netware
• UNIX
• SCO Open Server
• UnixWare /OpenUnix 8
• Solaris

Key Application Areas:

• Storage Area Network (SAN)
• Network Attached Storage
• Enterprise network servers
• ISP/Web Hosting
• Firewalls, Gateways & Routers
• Appliance Servers
• Network Segmentation
• Mixed NIC environments

Key Features:

- 2,4,or 6 Independent Copper Gigabit Channels
- High Performance, reliability, low power consumption.
- Ultra Deep, 64KB packet buffer per channel lowers CPU utilization to avoid PCI-X congestion
- Dual high speed RISC processor acceleration per channel for advanced packet classification
- Jumbo Frame (9KB)
- Server class reliability, availability like Link Aggregation, Load Balancing, Failover
- PCI Hot Plug
- Priority Queuing -802.1p layer 2 priority encoding
- PCI Power Management Interface (V1.1)
- LC Connectors
- 802.x Flow Control
- Boot Rom embedded or optional
- Hardware acceleration to offload tasks from the host processor

Technical Specifications:

Interface Standard:	PCI V2.2 32/64 bit 33/66 MHz PCI-X V1.0 32/64-bit, 66/100/133MHz
Bus Architecture:	PCI-X bus-mastering, compatible with existing PCI bus
Dimensions:	PCI Short card; 2.5" (63.5 mm) H x 6.6" (167.6 mm) L
Weight:	(2P) 2.47oz, (4P) 5.64oz, (6P) 6.3oz
PCI Card Type:	Universal 64 bit Card
PCI Voltage:	+5V (Min 4.75V, Max, 5.25V)
PCI Connector:	2 port - Universal 64 bit Card, 4 & 6 port – 3.3V/64 bits
Holder:	Metal Bracket
Power Consumption:	1.6A at 5V: Typical all ports operate at 1000Mbit/s. 0.7A at 5V: Typical all ports operate at 100Mbit/s. 0.65A at 5V: Typical all ports operate at 10Mbit/s.
Operating Humidity:	0%–90%, non-condensing
Operating Temperature:	0°C – 50°C (32°F - 122°F)
Storage:	-20°C–65°C (-4°F–149°F)
Certifications:	FCC Part 15, Subpart B class B, CE EN 55022, CE EN 55024, CE EN 60950

Ethernet Specifications:

IEEE Standard / Network Topology:	Gigabit Ethernet, 1000Base-T Fast Ethernet, 100Base-TX , Ethernet, 10Base-T
Simplex / Full duplex operation	Support both Simplex & Full duplex operation in all operating speeds
Auto negotiation	Auto-negotiation between full duplex and simplex operations and between 10Mb/s 100Mb/s speeds and duplex 1000Mb/s.
Data Transfer Rate:	100 and 10 Mbits/sec in simplex mode per port 2000Mbit/s 200 and 20 Mbit/s in full duplex mode per port
Cabling:	10Base-T: Category 3, 4 or 5 UTP 100Base-TX: Category 5 UTP 1000Base-T: Category 5 UTP (or better)

LED/Connector Specifications:

LEDs	Link & Activity, 100Mbits/s, 1000Mbit/s
LED location	LEDs are located on the PCB and are visible via holes in the metal bracket
Connectors	Shielded RJ-45

Support and Installation:

This device may be installed utilizing Nemonix Engineering phone support, self installed, or we will work with your service provider. NEMONIX Engineering offers 9-5 installation and warranty support during the **3 year warranty period** via phone. NEMONIX Engineering takes pride in offering superior products, backed by outstanding service and support.

Contact NEMONIX™ Engineering Inc. for Further Information:

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