

Intel® PRO/1000 GT Quad Port Server Adapter

Four Gigabit Copper Server Connections in a Single PCI/PCI-X* Slot

The Intelligent Way to Connect

Features

Access multiple network segments, conserve valuable Peripheral Component Interconnect (PCI) slots in servers, and migrate existing Category-5 (CAT-5) networks to Gigabit Ethernet easily and cost-effectively with the Intel® PRO/1000 GT Quad Port Server Adapter. Standards-based management features help ensure compatibility with the latest server and networking environments.

Enhance server performance further by teaming connections on this adapter with each other, with connections on other Intel® PRO Server Adapters or with LAN-on-motherboard components using the Intel® advanced server features to achieve multi-Gigabit scalability and redundant failover capability.



reatures	Benefits
Widespread Compatibility	
Support for most NOSs	Enables high-density networking in server appliances and embedded applications
Intel® SingleDriver™ technology	Common driver suite for Gigabit Ethernet reduces installation complexity
Backward compatibility with previous generations of Intel® PRO/1000 Network Adapters	Reduces support costs and simplifies installation and maintenance
Supports 3.3 volt 64-bit PCI-X* 1.0 or PCI 2.2 buses	This flexible, auto-sensing adapter works in a variety of bus types
Remote management support (WfM, RIS, SNMP/DMI)	Reduces support costs with remote management based on industry-wide standards
IEEE 802.3ab* compatibility	Supports Gigabit Ethernet industry-wide networking standard
New Features in the Intel® PRO/1000 GT Quad	d Port Server Adapter
Two Intel® NH82546GB Gigabit Controllers	Enables four Gigabit connections in a single adapter, delivering increased bandwidth for slot-constrained servers and providing high-performance, reliability, and low-power use in a single, integrated, dual-port Gigabit Ethernet controller chip
Lead-free	Lead has not been intentionally added, but lead may still exist as an impurity below 1000 ppm or an approved RoHS exemption applies
Interrupt moderation	Delivers increased performance while significantly reducing CPU utilization
Advanced cable diagnostics	Dynamically tests and reports network problems (interrupts, error rate, cable length) and automatically compensates for cable issues (cross-over cable, wrong pin-out/polarity)
Expanded advanced server features	Intel® Advanced Networking Services (ANS) software increases uptime with redundant, teamed connections and scales bandwidth by balancing network traffic across multiple server connections. Now offers Switch Fault Tolerance and Test Switch Configuration to test compatibility and further increase uptime
Gigabit-over-Copper Advantages	
Gigabit speeds on Category-5 cable networks	Achieves Gigabit speeds on commonly deployed CAT-5 cabling without costly cable replacement
Compatible with Fast Ethernet	Reduces training costs and quickly ramps rollout
Auto-sensing, self-configuring 10/100/1,000-Mbps performance	Enables migration to faster networks easily and inexpensively—adapter will automatically sense when the network is able to support a faster speed, and self-configure to save IT staff time, money, and server downtime

Renefits

Specifications

General

Product codes PWLA8494GT
Connectors Four RJ-45
IEEE standard/network topology 10BASE-T, 100BASE-TX, 1000BASE-T
Wiring CAT-5, 4-pair for 1,000 Mbps;
CAT-3, 2-pair for 100 Mbps

Adapter Product Features

Intel® SingleDriver™ technology
Plug and Play specification support
Auto-negotiation, full-duplex capable
Cable distance
Integrated MAC and PHY
SMBus support
PCI Hot Plug* and Active PCI*

SingleDriver™ technology
Standard
100 m
Integrated MAC and PHY
SMBus support
Integrated MAC and PHY
Integrat

Network Management

Wired for Management (WfM)
baseline v2.0 enabled for servers
DMI 2.0 support, WMI & SNMP-manageable
Offline diagnostics
Dynamic cable diagnostics
Intel* Boot Agent
ACPI power management 1.0
Wake on LAN*
PXF 2.0

NOS Software Support

Windows* 2000

Windows* Server 2003 32- and 64-bit editions

Windows* XP 32- and 64-bit editions

RedHat Linux* 2.4.x or later (32- and 64-bit)

FreeBSD* 4.x or later
UnixWare* 7.x, OpenUNIX* 8.0 (ddi8)
SunSoft Solaris* 7,8
NetWare* 5.1, 6.0, 6.5
SCO* 5

Intel Backing

90-day money-back guarantee (U.S. and Canada)

Order Codes

Limited lifetime warranty

- PWLA8494GT (single packs)
- PWLA8494GTBLK5 (order must be in increments of 5)

Companion Products

Consider these Intel® products in your server and network planning:

- Intel® PRO/1000 MT Server Adapters
- Intel® PRO/1000 MF Server Adapters
- Other Intel® PRO Desktop, Mobile, Wireless and Server Adapters
- Intel® Xeon® processors
- Intel® Server Boards
- Intel® PRO/1000 PT Server Adapters
- Intel® PRO/1000 PT Desktop Adapters
- Intel® PRO/1000 PT Dual Port Server Adapters
- Intel® PRO/1000 PT Quad Port Server Adapters
- Intel® PRO/1000 PF Server Adapters
- Intel® PRO/1000 PF Dual Port Server Adapters

Network-Ready PCs

Top PC and server manufacturers offer Intel® adapters in their new products. Specify or ask for Intel® PRO Network Connections with your next PC, server, or mobile PC purchase. For a list of preferred suppliers, visit www.intel.com/network/connectivity/how_to_buy/index.htm.

Advanced Software Features

Intel® PROSet for Windows* Device Manager Intel® PRO Intelligent Install Adapter Fault Tolerance Switch Fault Tolerance Adaptive Load Balancing Fast EtherChannel* Gigabit EtherChannel*1 IEEE 802.3ad* (link aggregation control protocol)1 Test switch configuration 802.1Q VLANs 802.3x flow control TCP checksum offload (TCP, UDP, IP) IEEE 802.1p* TCP segmentation/large send offload Interrupt moderation Save and Restore

Technical Features

Data rate(s) supported per port 10, 100 and 1,000 Mbps Bus type PCI/PCI-X3 Bus width 32/64-bit 66/100/133 MHz Bus speed 256 KB Onhoard memory Interrupt levels INTA, INTB, INTC, INTD IEEE support 802.3ab Hardware certifications FCC class B. CE. GOST, AS/NZ 3548. BSMI, ICES-003, VCCI Data transfer mode Bus-master DMA Intel® NH82546GB Controller-processor Typical power consumption 16.8 W at +3.3 VDC 0-55° C Operating temperature Operating humidity 85% at +55° C **Physical Dimensions** 16.5 cm (6.6 in) Length

Customer Support

Width

Intel® Customer Support Services offers a broad selection of programs including phone support and warranty service. For more information, contact us at **support.intel.com/support/network**. Service and availability may vary by country.

10.7 cm (4.2 in)

For Product Information

To speak to a customer service representative regarding Intel® products, please call 1-800-538-3373 (U.S. and Canada) or visit www.intel.com/support/9089.htm for the telephone number in your area. For additional product information on the Intel® Networking and Communication products, visit www.intel.com/network/connectivity.

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Available only when used with a capable switch