



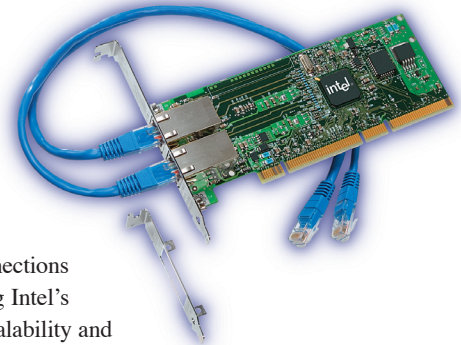
Intel® PRO/1000 MT Dual Port Server Adapter

Two Gigabit Copper Server Connections in a Single PCI Slot

The Intelligent Way to Connect

Conserve valuable PCI slot space in servers, eliminate server bottlenecks and migrate existing Category-5 networks to Gigabit Ethernet easily and cost-effectively with the Intel® PRO/1000 MT Dual Port Server Adapter. Featuring flexible, auto-negotiating 10/100/1000 Mbps performance, the Intel PRO/1000 MT Dual Port Server Adapter is designed to automatically scale with growing networks.

Enhance server performance further by teaming the two connections together or team with other Intel® PRO Server Adapters using Intel's advanced server feature software to achieve multi-Gigabit scalability and redundant failover capability. A compact form factor and swappable low-profile bracket allow this dual port Gigabit adapter to fit in even high-density, rack-mounted 1U and 2U servers. With a flexible design that fits almost any type of PCI bus, the standards-based management features and wide network operating system support help to ensure extensive compatibility with the latest server and networking environments.



- Easy, cost-effective 10/100/1000 migration over existing CAT-5 cabling
- Multi-Gigabit scalability and increased uptime through advanced server features
- Optional low-profile bracket included for high-density, rack-mounted servers

Features	Benefits
WIDESPREAD COMPATIBILITY	
Support for most NOSs	Enables widespread deployment
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 64- or 32-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 MT DUAL PORT SERVER ADAPTER	
Intel® 82546 Gigabit Controller	Enables two 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
Full-height and low-profile, screw-on brackets included with each adapter	Compatible with full-height and low-profile PCI slots—the standard, full-height bracket can be easily swapped out and replaced by the shorter, low-profile bracket, for installation in high-density 1U and 2U servers that feature low-profile PCI slots
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)
Large Send Off-load/TCP Segmentation Off-load	Compatible with Large Send Off-load feature of Microsoft Windows® Server 2003, 2000 and XP which enables wire speed performance with low CPU utilization
Expanded Advanced Server Features	Intel® 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

Intel® PRO
Network Connections

GIGABIT-OVER-COPPER ADVANTAGES

Gigabit speeds on Category-5 cable networks	Able to achieve Gigabit speeds on commonly deployed CAT-5 cabling without costly cable replacement
Compatible with Fast Ethernet	Reduces training costs and ramp rollout quickly
Auto-sensing, self-configuring 10/100/1000 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

SPECIFICATIONS		Intel® PRO/1000 MT Dual Port Server Adapter	
GENERAL		ADVANCED SOFTWARE FEATURES	
Product Codes	PWLA8492MT	Adapter Fault Tolerance	■
Connectors	Two RJ-45	Switch Fault Tolerance	■
IEEE Standard/Network Topology	10BASE-T, 100BASE-TX, 1000BASE-T	Adaptive Load Balancing	■
Wiring	Cat-5, 4-pair	Fast EtherChannel* ¹	■
ADAPTER PRODUCT FEATURES		Gigabit EtherChannel* ¹	■
Intel® SingleDriver™ technology	■	IEEE 802.3ad (Link Aggregation Control Protocol)* ¹	■
Plug and Play Specification Support	Standard	Test Switch Configuration	■
Easy Installation, Intel® PROSet Utility and Intel® PRO Intelligent Install	■	PCI Hot Plug* and Active PCI*	■
Auto-negotiation, Full-duplex Capable	■	802.1Q VLANs	■
Includes a Low-profile and a Full-height Bracket	■	802.3x Flow Control	■
Cable Distance	100m	TCP Checksum Offload	■
NETWORK MANAGEMENT		IEEE 802.1p	■
Wired for Management (WfM) Baseline v2.0 Enabled for Servers	■	TCP Segmentation/Large Send Off-load	■
DMI 2.0 Support, WMI & SNMP-manageable	■	Interrupt Moderation	■
Offline Diagnostics	■	Save and Restore	■
Dynamic Cable Diagnostics	■	TECHNICAL FEATURES	
Intel® Boot Agent	■	Data Rate(s) Supported per Port	10, 100 and 1,000-Mbps
ACPI Power Management	■	Bus Type	PCI/PCI-X
Wake on LAN*	■	Bus Width	32- or 64-bit
PXE 2.0	■	Bus Speed (MHz)	33/66/100/133
NOS SOFTWARE SUPPORT		Onboard Memory	128 KB
Microsoft Windows® Server 2003 and 2000	■	Interrupt Levels	INTA
Microsoft Windows® XP 32- and 64-bit Editions	■	IEEE Support	802.3ab
Microsoft Windows NT® 4.0	■	Hardware Certifications	FCC A, CE
Linux® 2.4.x or later (32- and 64-bit)	■	Data Transfer Mode	Bus-master DMA
FreeBSD 4.x or later	■	Controller—Processor	Intel® 82546
Novell Netware® 4.11, 4.2, 5.0, 5.1, 6.0	■	Typical Power Consumption	1A at +5VDC
SunSoft Solaris® 7, 8	■	Operating Temperature	0–55°C
UnixWare® 7.x, OpenUNIX 8 (ddi8)	■	Operating Humidity	85% at +55°C
SCO5®	■	PHYSICAL DIMENSIONS	
INTEL BACKING		Length	16.5cm (6.6 in)
Limited Lifetime Warranty	■	Width	6.4cm (2.5 in)
90-day Money-back Guarantee (U.S. and Canada)	■	Height of Full-Height End Bracket	12.1cm (4.75 in)
		Height of Low-Profile End Bracket	8.1cm (3.2 in)

ORDER CODES

PWLA8492MT (Single Packs)
PWLA8492MTBLK5 (Five Packs)

COMPANION PRODUCTS

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

- Intel® PRO/1000 MT Desktop Adapters
- Intel® PRO/1000 MT Server Adapters
- Intel® PRO/1000 MF Server Adapters
- Intel® PRO/1000 MF Server Adapters (LX)
- Intel® PRO/1000 MF Dual Port Server Adapters
- Intel® PRO/1000 MT Quad Port Server Adapters
- Other Intel® PRO Desktop, Mobile, Wireless and Server Adapters
- Intel® Xeon™ processors
- Intel® Server Boards

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 us on the World Wide Web: www.intel.com/network/connectivity/how_to_buy/index.htm.

CUSTOMER SUPPORT

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.

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