



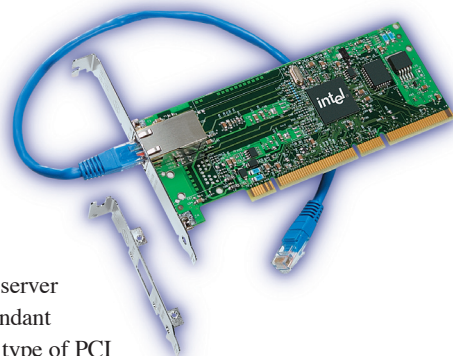
Intel® PRO/1000 MT Server Adapter

High-Performance Gigabit Copper Connection for Servers

The Intelligent Way to Connect

Eliminate server bottlenecks and migrate existing Category-5 networks to Gigabit Ethernet easily and cost-effectively with the Intel® PRO/1000 MT Server Adapter. Featuring flexible, auto-negotiating 10/100/1000 Mbps performance, the Intel PRO/1000 MT Server Adapter is designed to automatically scale with growing networks.

Enhance server performance further by teaming multiple Intel® PRO Server Adapters using Intel's expanded advanced server feature software to achieve multi-Gigabit scalability and redundant failover capability. 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 CAT-5 cabling
- Multi-Gigabit scalability and increased uptime through advanced server features
- Optional low-profile bracket included for high-density, rack-mounted servers

Intel® PRO
Network Connections

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 and 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 industry-wide Gigabit Ethernet networking standard
NEW FEATURES IN THE INTEL PRO/1000 MT SERVER ADAPTER	
Intel® 82545 Gigabit Controller	Provides high performance, reliability, and low power use in a single integrated 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 (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

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 Server Adapter	
GENERAL Product Codes Connectors IEEE Standard/Network Topology Wiring		ADVANCED SOFTWARE FEATURES Adapter Fault Tolerance Switch Fault Tolerance Adaptive Load Balancing Fast EtherChannel* ¹ Gigabit EtherChannel* ¹ IEEE 802.3ad (Link Aggregation Control Protocol)* ¹ Test Switch Configuration PCI Hot Plug* and Active PCI* 802.1Q VLANs 802.3x Flow Control TCP Checksum Offload IEEE 802.1p TCP Segmentation/Large Send Off-load Interrupt Moderation Save and Restore	
ADAPTER PRODUCT FEATURES Intel® SingleDriver™ technology Plug and Play Specification Support Easy Installation, Intel® PROSet Utility and Intel® PRO Intelligent Install Auto-negotiation, Full-duplex Capable Includes a Low-profile and a Full-height Bracket Cable Distance		TECHNICAL FEATURES Data Rate(s) Supported per Port Bus Type Bus Width Bus Speed (MHz) Onboard Memory Interrupt Levels IEEE Support Hardware Certifications Data Transfer Mode Controller—Processor Typical Power Consumption Operating Temperature Operating Humidity	
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 PXE 2.0		PHYSICAL DIMENSIONS Length Width Height of Full-Height End Bracket Height of Low-Profile End Bracket	
NOS SOFTWARE SUPPORT Microsoft Windows® Server 2003 and 2000 Microsoft Windows® XP 32- and 64-bit Editions Microsoft Windows NT® 4.0 Linux® 2.4.x or later (32- and 64-bit) FreeBSD 4.x or later Novell Netware® 4.11, 4.2, 5.0, 5.1, 6.0 SunSoft Solaris® 7, 8 UnixWare® 7.x, OpenUNIX 8 (ddid8) SCO5®			
INTEL BACKING Limited Lifetime Warranty 90-day Money-back Guarantee (U.S. and Canada)			

ORDER CODES

PWLA8490MT (Single Packs)
 PWLA8490MTBLK5 (Five Packs)

COMPANION PRODUCTS

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

- Intel® PRO/1000 MT Desktop 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 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.

FOR PRODUCT INFORMATION

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ONLINE DOCUMENTS

For the latest product information, visit us on the World Wide Web at www.intel.com/network/connectivity.



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¹Available only when used with a capable switch.

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