



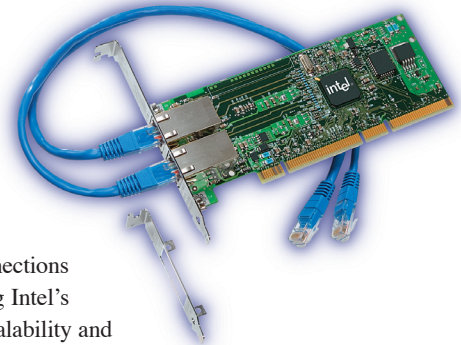
# Intel® PRO/1000 MT Dual Port Server Adapter

**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  |
|---|---|
| <b>WIDESPREAD COMPATIBILITY</b>   |   |
| 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   |
| <b>NEW FEATURES IN THE INTEL PRO/1000 MT DUAL PORT SERVER ADAPTER</b>               |   |
| 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 |

## GIGABIT-OVER-COPPER ADVANTAGES

|  |  |
|--|--|
| <b>Gigabit speeds on Category-5 cable networks</b>                 | Able to achieve Gigabit speeds on commonly deployed CAT-5 cabling without costly cable replacement   |
| <b>Compatible with Fast Ethernet</b>                               | Reduces training costs and ramp rollout quickly  |
| <b>Auto-sensing, self-configuring 10/100/1000 Mbps performance</b> | 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                    |                        |
|---|-------------------------------------|--|------------------------|
| <b>GENERAL</b>  |                                     | <b>ADVANCED SOFTWARE FEATURES</b>                              |                        |
| Product Codes   | PWLA8492MT                          | Adapter Fault Tolerance  | ■                      |
| Connectors  | Two RJ-45                           | Switch Fault Tolerance   | ■                      |
| IEEE Standard/Network Topology  | 10BASE-T, 100BASE-TX,<br>1000BASE-T | Adaptive Load Balancing  | ■                      |
| Wiring  | Cat-5, 4-pair                       | Fast EtherChannel* <sup>1</sup>                                | ■                      |
| <b>ADAPTER PRODUCT FEATURES</b>   |                                     | Gigabit EtherChannel* <sup>1</sup>                             | ■                      |
| Intel® SingleDriver™ technology   | ■                                   | IEEE 802.3ad (Link Aggregation Control Protocol)* <sup>1</sup> | ■                      |
| 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   | ■                      |
| <b>NETWORK MANAGEMENT</b>   |                                     | 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   | ■                                   | <b>TECHNICAL FEATURES</b>                                      |                        |
| 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          |
| <b>NOS SOFTWARE SUPPORT</b>   |                                     | 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*   | ■                                   | <b>PHYSICAL DIMENSIONS</b>                                     |                        |
| <b>INTEL BACKING</b>  |                                     | 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](http://www.intel.com/network/connectivity/how_to_buy/index.htm).

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## ONLINE DOCUMENTS

For the latest product information, visit us on the World Wide Web at [www.intel.com/network/connectivity](http://www.intel.com/network/connectivity)



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<sup>1</sup>Available only when used with a capable switch.

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