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.

Features

- WIDESPREAD COMPATIBILITY
  - Support for most NOSs
  - Intel® SingleDriver™ technology
  - Backward Compatibility with previous generations of Intel PRO/1000 Network Adapters
  - Supports 64- or 32-bit PCI-X 1.0 or PCI 2.2 buses
  - Remote Management Support (WfM, RIS, SNMP/DMI)
  - IEEE 802.3ab Compatibility

- NEW FEATURES IN THE INTEL PRO/1000 MT DUAL PORT SERVER ADAPTER
  - Intel® 82546 Gigabit Controller
  - Full-height and low-profile, screw-on brackets included with each adapter
  - Interrupt Moderation
  - Advanced Cable Diagnostics
  - Large Send Off-load/TCP Segmentation Off-load
  - Expanded Advanced Server Features

Benefits

- Enables widespread deployment
- Common driver suite for Gigabit Ethernet reduces installation complexity
- Reduces support costs and simplifies installation and maintenance
- This flexible, auto-sensing adapter works in a variety of bus types
- Supports Gigabit Ethernet industry-wide networking standard
- 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
- 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
- Delivers increased performance while significantly reducing CPU utilization
- Dynamically tests and reports network problems (interrupts, error rate, cable length) and automatically compensates for cable issues (cross over cable, wrong pin-out/polarity)
- Compatible with Large Send Off-load feature of Microsoft Windows® Server 2003, 2000 and XP which enables wire speed performance with low CPU utilization
- 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

- 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
**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

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**SPECIFICATIONS**

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<th>GENERAL</th>
<th>Intel® PRO/1000 MT Dual Port Server Adapter</th>
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<tr>
<td>Product Codes</td>
<td>PWLA8492MT</td>
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<tr>
<td>Wiring</td>
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<td>ADAPTER PRODUCT FEATURES</td>
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<td>Plug and Play Specification Support</td>
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<td>Easy Installation, Intel® PROSet Utility and Intel® PRO Intelligent Install</td>
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<td>Auto-negotiation, Full-duplex Capable</td>
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<td>Includes a Low-profile and a Full-height Bracket</td>
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<td><strong>Cable Distance</strong></td>
<td>100m</td>
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<td><strong>NETWORK MANAGEMENT</strong></td>
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<td>Wired for Management (WMI) Baseline v2.0</td>
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<tr>
<td><strong>NOS SOFTWARE SUPPORT</strong></td>
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<tr>
<td>Microsoft Windows* XP 32- and 64-bit Editions</td>
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<td>Microsoft Windows NT®</td>
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<td>Linux* 2.4.4 or later (32- and 64-bit)</td>
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<tr>
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<td>UnixWare* 7.x, OpenUNIX 8 (ddi8)</td>
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**ADDITIONAL SOFTWARE FEATURES**

- Adapter Fault Tolerance
- Switch Fault Tolerance
- Adaptive Load Balancing
- Fast EtherChannel®
- Gigabit EtherChannel®
- IEEE 802.3ad (Link Aggregation Control Protocol)**1**
- Test Switch Configuration
- PCI Hot Plug* and Active PCI* Controller—Processor
- 802.1Q VLANs
- 802.3x Flow Control
- TCP Checksum Offload
- IEEE 802.1p
- TCP Segmentation/Large Send Off-load
- Interrupt Moderation
- Save and Restore

**TECHNICAL FEATURES**

- **Data Rate(s) Supported per Port**
  - 10, 100 and 1,000-Mbps
- **Bus Type**
  - PCI/PCI-X
- **Bus Width**
  - 32- or 64-bit
- **Bus Speed (MHz)**
  - 33/66/100/133
- **Onboard Memory**
  - 128 KB
- **Interrupt Levels**
  - INTA
- **IEEE Support**
  - 802.3ab
- **Hardware Certifications**
  - FCC A, CE
- **Data Transfer Mode**
  - Bus-master DMA
- **Controller—Processor**
  - Intel® 82546
- **Typical Power Consumption**
  - 1A at +5VDC
- **Operating Temperature**
  - 0–55°C
- **Operating Humidity**
  - 85% at +55°C

**PHYSICAL DIMENSIONS**

- **Length**
  - 16.5cm (6.6 in)
- **Width**
  - 6.4cm (2.5 in)
- **Height of Full-Height End Bracket**
  - 12.1cm (4.75 in)
- **Height of Low-Profile End Bracket**
  - 8.1cm (3.2 in)

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**COMPANION PRODUCTS**

- 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

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**ORDER CODES**

- PWLA8492MT (Single Pack)
- PWLA8493MTBLK5 (Five Packs)

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**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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**ONLINE DOCUMENTS**


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