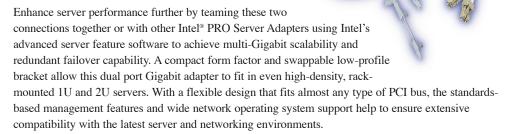


# Intel® PRO/1000 MF Dual Port Server Adapter

Two Gigabit Fiber Server Connections in a Single PCI Slot

## The Intelligent Way to Connect

Conserve valuable PCI slot space in servers, alleviate bottlenecks, and increase uptime with Gigabit performance for servers in multi-mode fiber-optic networks. The Intel® PRO/1000 MF Dual Port Server Adapter, with a self-configuring PCI/PCI-X interface, delivers high throughput while conserving CPU resources.



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 802.3z Compatibility	Supports Gigabit Ethernet industry-wide networking standar
NEW FEATURES IN THE INTEL PRO/1000 MF DUAL PORT S	SERVER ADAPTER
Intel <sup>®</sup> 82546 Gigabit Controller	Enables two Gigabit connections in a single adapter, delivering increased bandwidth for slot-constrained servers and providin 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 slot
Interrupt Moderation	Delivers increased performance while significantly reducing CPU utilization
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

fiber-optic cabling standards

This new, smaller connector design is compatible with the latest

- High-performance via 64-bit PCI-X bus running up to 133 MHz
- Multi-Gigabit scalability and increased uptime through advanced server features
- Optional low-profile bracket included for high-density, rackmounted servers



LC Connectors

#### **SPECIFICATIONS** Intel® PRO/1000 MF Dual Port Server Adapter GENERAL Adaptive Load Balancing Product Codes PWLA8492MF Receive Load Balancing Two LC Gigabit EtherChannel\*1 Connectors IEEE 802.3ad (Link Aggregation Control IEEE Standard/Network Topology 1000BASE-SX Mulitmode fiber (62.5 um or 50 um) Wiring Protocol)1 Test Switch Configuration ADAPTER PRODUCT FEATURES PCI Hot Plug\* and Active PCI\* Intel® SingleDriver™ technology 802.1Q VLANs Plug and Play Specification Support Standard 802.3x Flow Control Easy Installation, Intel® PROSet II Utility and TCP Checksum Off-load Intel® PRO Intelligent Install IEEE 802.1p Auto-negotiation, Full-duplex Capable TCP Segmentation/Large Send Off-load Includes a Low-profile and a Full-height Bracket Interrupt Moderation Cable Distance 275m at 62.5 um Save and Restore 550m at 50 um TECHNICAL FEATURES **NETWORK MANAGEMENT** Data Rate(s) Supported per Port 1.000 Mbps Wired for Management (WfM) Baseline v2.0 Bus Type PCI/PCI-X **Enabled for Servers** Bus Width 32- or 64-bit DMI 2.0 Support, WMI & SNMP-manageable 33/66/100/133 Bus Speed (MHz) Offline Diagnostics Onboard Memory 128 KB (64 KB per port) Intel® Boot Agent Interrupt Levels INTA **ACPI Power Management** 802.3z IEEE Support Wake on LAN\* FCC A. CE Hardware Certifications PXE 2.0 Data Transfer Mode Bus-master DMA NOS SOFTWARE SUPPORT Controller—Processor Intel® 82546 Typical Power Consumption 1A at +5VDC Microsoft Windows\* Server 2003 and 2000 Microsoft Windows\* XP 32- and 64-bit Editions Operating Temperature 0-55°C 85% at +55°C Microsoft Windows NT\* 4.0 Operating Humidity Linux\* 2.4.x or later (32- and 64-bit) PHYSICAL DIMENSIONS FreeBSD 4 x or later 16.5cm (6.6 in) Length Novell Netware\* 4.11, 4.2, 5.0, 5.1, 6.0 6.4cm (2.5 in) SunSoft Solaris\* 7, 8 12.1cm (4.75 in) Height of Full-Height End Bracket UnixWare\* 7.x, OpenUNIX 8 (ddi8) Height of Low-Profile End Bracket 8.1cm (3.2 in) INTEL BACKING **ADVANCED SOFTWARE FEATURES** Limited Lifetime Warranty Adapter Fault Tolerance 90-day Money-back Guarantee (U.S. and Canada) Switch Fault Tolerance

#### ORDER CODES

PWLA8492MF (Single Packs)
PWLA8492MFBLK5 (Five Packs)

#### **COMPANION PRODUCTS**

Consider these Intel® products in your sever 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 MT Dual Port Server Adapters
   Intel® PRO/1000 MT Quad Port Server Adapters
- Other Intel® PRO Desktop, Mobile, Wireless and
- Other Intel® PRO Desktop, Mobile, Wireless and Server Adapters
- Intel<sup>®</sup> Xeon<sup>™</sup> 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**

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\*Other names and brands may be claimed as the property of others.

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

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