



## SlotOptimizer™ 454G PMC Quad-Port Gigabit Ethernet Interface Card

*Quad-Port 10/100/1000 Gigabit Ethernet from a Single System Slot*

### FEATURES

Four independent 10/100/1000 Gigabit Ethernet ports

Intel® 82546GB controller  
Supports PCI-X 1.0a or PCI 2.3 buses

Supports 33/66/100/133 MHz PCI bus speeds

Auto-Sensing and Auto-Negotiation automatically detects and configures link speed and duplex type of the network connection

Plug-and-Play compatibility for PCI Local Bus 2.3 and PCI-X 1.0a compliant host systems

Driver support for:

- Windows NT®
- Windows® 2000
- Windows XP
- Windows Server 2003, Solaris™ X86
- Linux® 2.2.5 or later

Each port is IEEE 802.3ab compliant for 10BASE-T, 100BASE-TX, 1000BASE-T for assured compatibility

Fully compliant with ACPI Power Management Specification

Full/Half duplex operation

- Supports up to 2Gbps Throughput per port

### APPLICATIONS

*Server Clusters*

*Network Attached Storage*

*IP DSLAMS*

*Enterprise Backbone*

*Data Warehousing*

*Media Gateways*

*LANs*

*Web Servers*

*Wireless Nodes*

*ISPs*

*GGSNs*

### Maximizes Server Communications I/O

Providing the highest levels of overall system performance while conserving valuable PCI slots, the 454G is the perfect solution for the new generation of small footprint and rack mounted servers that have limited expansion options for communications I/O.

### Optimum Performance

Designed specifically for high-end enterprise environments, the SlotOptimizer 454G adapter implements a high efficient 64-bit PCI/PCI-X bus at 133 MHz for even the most demanding network server applications.

### Flexible Architecture

Each Gigabit Ethernet port on the Slot Optimizer 454G supports auto-negotiation allowing the card to configure to the best possible mode of operation over a link, ensuring the highest possible performance.





## 454G PMC Quad-Port Gigabit Ethernet Interface Card

### Maximum Ethernet Performance

The Interphase SlotOptimizer 454G Quad-port Gigabit Ethernet Interface Card provides increased bandwidth for even the most demanding networks. System speeds are maximized with Full Duplex modes allowing for simultaneous transmit and receive requests, providing maximized throughput. The 454G interface card supports PCI/PCI-X 32/64 bit 33/66/100/133 MHz operation. The four GigE ports are achieved using two Intel® 82546 dual Ethernet controllers. The GigE controllers are isolated from the PMC PCI bus using an asynchronous bridge. This bridge allows the GigE controllers to run in PCI-X mode while the PMC's PCI interface runs using PCI or PCI-X protocol.

### Ethernet Auto-negotiation

Each independent IEEE 802.3ab compliant Gigabit Ethernet port on the SlotOptimizer 454G interface card senses for 10, 100 or 1000 Mbps network transmission speed, and for half or full-duplex operation, and then automatically configures to the highest performance mode possible. This simplifies configuring the 454G for multi-network operation with other Ethernet networking adapters, hubs, or switch ports.

### Interphase Customer Service and Support

All Interphase products are backed by support programs designed to deliver maximized uptime for our customers worldwide. Included are standard and extended product warranty packages, standard and enhanced "7x24" live technical assistance, and free Web-based online support for the life of the product, including technical notes, downloadable driver enhancements, and information on new product releases. Interphase customer support ensures investment protection for your networking, remote access and mass storage connectivity.

### Technical Specifications

#### Architecture

Bus Type	PCI/PCI-X
Data transfer	Bus Master DMA
Bus Width	32- or 64-bit
Bus Speed	33/66/100/133 MHz

#### Mechanical

Form Factor	PMC
Length	149.86 mm (5.9 in.)
Height	74.0 mm (2.9 in.)
Depth	(0.5 in) 12.9 mm

#### Operating Environment

Power Consumption	1.5 A @ 3.3 V DC
Temperature	0 to 55 °C (32 to 131 °F)
Relative Humidity	10% to 95% non-condensing
Altitude	0 to 15,000 ft.

Minimum Forced Air Flow	150 linear feet per minute/ 46 Linear meters per minute across both surfaces of the 454G
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#### About Interphase Corporation

Interphase Corporation (NASDAQ: INPH) delivers solutions for network connectivity, interworking, and packet processing for key applications for the communications, Mil/Aero, and enterprise markets. Founded in 1974, Interphase provides expert customization services and contract manufacturing, in addition to its COTS portfolio, and plays a leadership role in next generation AdvancedTCA® (ATCA), AdvancedMC™ (AMC), PCI-X, and PCIe standards and solutions. Interphase is headquartered in Plano, Texas, with sales offices across the globe.

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