

PCI Gigabit Ethernet Fiber Network Interface Card, Intel 82545EB Chipset 1000Base-SX MM Fiber NIC, Single SC Port.

The NIC-7210PF is a high-performance PCI Gigabit fiber network card powered by the reliable Intel 82545EB controller, designed for both single-mode and multi-mode fiber networks. With support for Boot ROM, advanced networking standards, and robust management features, this adapter is an ideal choice for enterprises, government institutions, financial organizations, and other large-scale deployments. Widely used in prestigious settings such as the Great Hall of the People and major state enterprises, it exemplifies professional quality and trustworthy performance.



Key Features

Performance and Reliability

- **Intel 82545 Gigabit Controller:** Provides exceptional performance, low power consumption, and reliability.
- **1000BASE-SX Compliance:** Ensures compatibility with multi-mode fiber cabling up to 550 meters.
- **Interrupt Moderation:** Enhances performance while minimizing CPU utilization.
- **Large Send Offload (LSO)/TCP Segmentation Offload (TSO):** Supports wire-speed performance with reduced CPU usage.

Flexibility and Compatibility

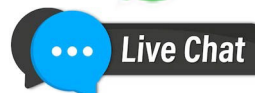
- **Full-Height and Low-Profile Brackets:** Accommodates standard and compact server configurations, including 1U and 2U form factors.
- **Plug-and-Play Support:** Simplifies installation and deployment with the Intel PROSet Utility and intelligent setup tools.
- **Wide OS Compatibility:** Supports major operating systems, including Windows, Linux, FreeBSD, Solaris, and Unix.



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Advanced Networking

- **Adaptive Load Balancing:** Ensures optimal performance and redundancy.
- **VLAN and Flow Control Support:** Features IEEE 802.1Q VLAN tagging and 802.3x flow control for efficient traffic management.
- **Remote Management:** Includes WfM, RIS, SNMP/DMI, and PXE 2.0 support for streamlined maintenance and deployment.

Specifications

General

- **Product Code:** NIC-7210PF
- **Connector Type:** SC (fiber-optic)
- **IEEE Standard:** 1000Base-SX for multi-mode fiber (62.5µm or 50µm)

Technical Details

- **Data Rates:** 1Gbps per port
- **Bus Type:** PCI 2.2, 32-bit, 33/66 MHz
- **Onboard Memory:** 64KB
- **Power Consumption:** 1A at +5VDC
- **Operating Temperature:** 0°C to 55°C
- **Operating Humidity:** Up to 85% at +55°C

Networking Features

- Adaptive Load Balancing and Fault Tolerance
- IEEE 802.3z, 802.3ab, 802.1p, and 802.1Q compliance
- TCP checksum offload and large send offload
- PCI hot-plug and active PCI support

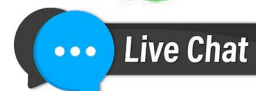
Management Features

- Intel Boot Agent for remote boot support
- Wired for Management (WfM), DMI 2.0, and ACPI compliance
- SNMP-manageable and offline diagnostics support

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Software Support

- **Windows:** Server 2003/2000, XP (32/64-bit), NT 4.0
- **Linux:** Kernel 2.4.x or later (32/64-bit)
- **FreeBSD:** 4.x or later
- **Novell NetWare:** 4.x to 6.x
- **Solaris:** 7, 8
- **UnixWare/OpenUNIX:** 7.x, 8 (ddi8)

Applications

- Ideal for data centers, enterprise networks, and government infrastructure requiring high-performance fiber connectivity.
- Suitable for deployment in servers, workstations, and other critical systems that demand robust and scalable networking solutions.

The NIC-7210PF PCI Gigabit fiber card delivers professional-grade performance, flexible compatibility, and reliable connectivity for diverse networking environments. Its advanced features and robust design make it a trusted solution for modern enterprise networking challenges.

