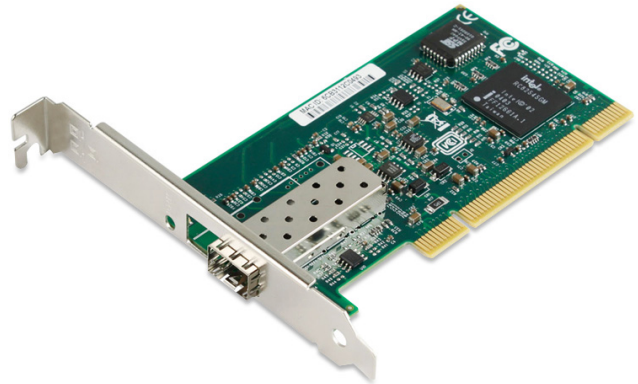


PCI Gigabit Ethernet Fiber Network Interface Card, Intel 82545EB Chipset 1000Base-X Fiber NIC, Single GE SFP Port.

The **NIC-7210PF-SFP** is designed and developed based on the Intel 82545EB solution, enabling operation in both single-mode and multi-mode fiber networks. It supports Boot ROM functionality and features a PCI interface that delivers high throughput while conserving CPU resources. With a flexible design that fits various PCI bus types, standards-based management, and extensive network operating system support, it ensures compatibility with modern servers and networking environments. Widely adopted in government, financial institutions, and major enterprises, including the Great Hall of the People, CSIC, and AVIC, it is trusted for its reliability and performance.



Highlights

- Professional Quality and Reliability
- High-Performance Control with Consistent Assurance
- Stable Fiber Network with Professional Design

Features

Performance and Compatibility

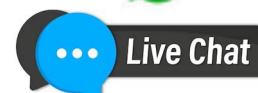
- **Intel 82545 Gigabit Controller:** Provides high performance, reliability, and low power consumption in a single integrated design.
- **1000BASE-SX/LX Compliance:** Compatible with multi-mode fiber up to **550m** (62.5µm or 50µm) and single-mode fiber up to **10km** (9µm).
- **Interrupt Moderation:** Reduces CPU utilization while improving performance.
- **Large Send Offload/TCP Segmentation Offload:** Enhances wire-speed performance with minimal CPU usage.



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Installation Flexibility

- **PCI 2.2 Interface:** Compatible with 32-bit PCI slots, operating at 33/66 MHz.
- **Full-Height and Low-Profile Brackets:** Includes interchangeable brackets for standard and low-profile PCI slots, ideal for high-density server environments.
- **Plug-and-Play Installation:** Simplifies setup with Intel PROSet II Utility.
- **LC Connectors:** Ensures compatibility with modern fiber-optic cabling standards.

Advanced Networking and Management

- **VLAN Support:** Implements IEEE 802.1Q for effective traffic segmentation.
- **Flow Control:** Adheres to IEEE 802.3x standards for smooth and reliable data transmission.
- **Remote Management:** Supports WfM, RIS, SNMP/DMI, and ACPI power management.
- **Load Balancing and Fault Tolerance:** Features include Adapter Fault Tolerance, Switch Fault Tolerance, Adaptive Load Balancing, and Receive Load Balancing.

Specifications

General

- **Product Code:** NIC-7210PF-SFP
- **Connectors:** LC
- **IEEE Standards/Network Topology:** 1000BASE-SX/LX

Technical Features

- **Data Rate:** 1,000 Mbps
- **Bus Type:** PCI
- **Bus Width:** 32-bit
- **Bus Speed:** 33/66 MHz
- **Onboard Memory:** 64 KB
- **Power Consumption:** 1A at +5VDC
- **Operating Temperature:** 0°C to 55°C
- **Operating Humidity:** 85% at 55°C

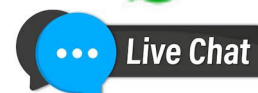
Advanced Features

- **Fault Tolerance:** Adapter Fault Tolerance, Switch Fault Tolerance
- **Load Balancing:** Adaptive Load Balancing, Receive Load Balancing
- **Hot Plug Support:** PCI Hot Plug and Active PCI
- **Networking Protocols:** IEEE 802.3ad (LACP), IEEE 802.1p
- **Offload Features:** TCP Checksum Offload, TCP Segmentation Offload
- **Diagnostics and Management:** Save & Restore, Offline Diagnostics, Intel Boot Agent

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Network Management

- **Standards-Based Management:** WfM, DMI 2.0, SNMP-manageable
- **Power Management:** ACPI Power Management
- **PXE Support:** PXE 2.0

Supported Operating Systems

- **Windows:** Server 2003, Server 2000, XP (32- and 64-bit editions), NT 4.0
- **Linux:** Kernel 2.4.x and later (32- and 64-bit)
- **FreeBSD:** Version 4.x and later
- **Novell NetWare:** 4.11, 4.2, 5.0, 5.1, 6.0
- **SunSoft Solaris:** Version 7 and 8
- **UnixWare/OpenUNIX:** Version 7.x and 8
- **SCO5**

Applications

The NIC-7210PF-SFP is ideal for high-performance network environments, offering broad compatibility, flexible installation, and robust management features to meet the demands of enterprise-grade networking.

