

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

The NIC-7210PF-LX is developed using the Intel 82545EB solution and supports both single-mode and multi-mode fiber networks. It includes Boot ROM functionality and utilizes the PCI interface to deliver high throughput while minimizing CPU usage. The card is designed for flexibility, ensuring compatibility with various PCI bus types and offering extensive support for server and networking environments. It is widely used in government institutions, large enterprises, financial sectors, and notable establishments such as the Great Hall of the People, CSIC, and AVIC.



Highlights

- Professional Quality and Reliability
- High-Performance Control
- Stable and Trusted Fiber Network Design

Features

Performance and Compatibility

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

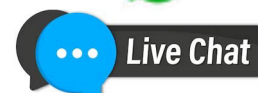
Flexible Installation Options

- **PCI 2.2 Interface:** Works seamlessly with 32-bit PCI slots operating at 33/66 MHz.
- **Full-Height and Low-Profile Brackets:** Designed for compatibility with standard and low-profile PCI slots, suitable for 1U and 2U servers.

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- **Plug-and-Play Support:** Simplifies installation with Intel PROSet Utility.
- **SC Connectors:** Compatible with standard fiber-optic cabling.

Advanced Networking and Management

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

Specifications

General

- **Product Code:** NIC-7210PF-LX
- **Connectors:** SC
- **IEEE Standards/Network Topology:** 1000Base-LX Single-mode (8 μ m) or Multi-mode (62.5 μ m or 50 μ m) fiber

Technical Features

- **Data Rate:** 1,000 Mbps
- **Bus Type:** PCI, 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

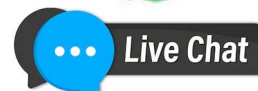
Advanced Features

- Adapter Fault Tolerance, Switch Fault Tolerance
- Adaptive Load Balancing, Receive Load Balancing

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- Gigabit EtherChannel and IEEE 802.3ad (LACP)
- PCI Hot Plug and Active PCI
- TCP Checksum Offload, IEEE 802.1p, and Save & Restore

Network Management

- Wired for Management (WfM)
- Baseline v2.0 for servers
- SNMP-manageable, Intel Boot Agent, ACPI Power Management

Supported Operating Systems

- **Windows:** Server 2003, 2000, XP (32- and 64-bit), 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-LX is ideal for high-performance network environments, offering compatibility with diverse fiber configurations and operating systems, making it a trusted choice for enterprise-grade networking solutions.

