

PCIe Gigabit Ethernet Fiber Network Interface Card, PCI Express x1 Intel 82575EB Chipset 1000Base-SX MM Fiber NIC, Single SC Port.

The **NIC-6220PF** is a high-performance PCI Express multifunction network adapter, compatible with both standard and low-profile slots, designed for use in fiber-optic network environments. Based on the Intel 82575EB controller, this adapter supports 1000Base-SX operation and is suitable for high-performance desktop applications.



Key Features

Industry-Leading Performance

- Optimized for high-performance networking applications, ensuring the system I/O is not a bottleneck.
- Integrated hardware acceleration for TCP/UDP/IP checksum offload and TCP segmentation, freeing up CPU resources for application processing.

Reliability, Availability, and Serviceability

- Fault tolerance through teaming: Enables traffic rerouting from a failed port to up to seven other team members. Designed for demanding applications with high stability, performance, and compatibility.

Versatile Fiber Network Support

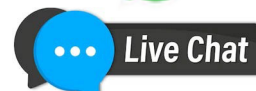
- Available with a single SC connector, supporting either **multimode or single-mode** fiber based on customer requirements.
- Compatible with a wide range of computers and fiber switches available in the market, making it an ideal solution for high-performance FTTD applications.



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Advantages

- Intel 82575EB chipset supports enhanced functionality.
- Compatibility with all major operating systems.
- High-quality PCB design (4-layer, 1.5oz, 4mil) ensures stability, durability, and reduced resistance.
- Triple-line power supply (3.3V/2.5V/1.0V) ensures stable operation unaffected by external power fluctuations. Premium-quality materials and components (TI and LT power controllers) ensure a reliable working environment. Support for PXE and Wake-on-LAN (WOL) for advanced network management.

Standard Features

- **Host Interface:** PCI Express 2.0a standard.
- **Intel 82575EB Controller:** Integrated MAC + PHY/SERDES chip for high performance, reliability, and low power consumption.
- **Fiber Gigabit Ethernet Channels:** Independently support **1000Base-SX** for multimode operation.
- **Hardware Acceleration:** Offloads tasks such as TCP/UDP/IP checksum calculations and TCP segmentation. **Server-Class Features:**
 - Link Aggregation and Load Balancing: Supports 802.3ad (LACP), Generic Trunking (GEC/FEC), and failover capabilities.
 - **VLAN Support:** 802.1Q VLAN tagging.
 - **Priority Queuing:** 802.1P Layer 2 priority encoding.
 - **Jumbo Frames:** Up to 16KB.
 - **Flow Control:** 802.3x flow control.
 - Extensive statistics for SNMP MIB II, Ethernet-like MIB, and Ethernet MIB (802.3z, Clause 30).
- **LED Indicators:** Provide status for link, activity, and speed.
- Compatible with both full-height and low-profile brackets.

Specifications

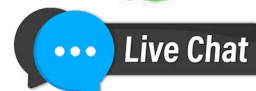
General

- **IEEE Standards:** 1000Base-SX (850nm) for multimode fiber.
- **Cable Distance:**
 - Up to **220m** for 62.5µm multimode fiber.
 - Up to **550m** for 50µm multimode fiber.
- **Connectors:** SC.

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Technical

- **Interface Standard:** PCI Express 2.0 (x1, compatible with x4, x8, x16).
- **Power Consumption:** +12V $\pm 8\%$, +3.3V $\pm 8\%$.
- **Operating Temperature:** -5°C to 40°C.
- **Storage Temperature:** -40°C to 85°C.
- **LED Indicators:**
 - Link (green): On when a link is established.
 - Activity (green): Blinks on activity.

Operating System Support

- **Windows:** 2000, XP, Vista, 7, 8 (32-bit and 64-bit), Server 2003, Server 2008, Server 2008 R2, Server 2012 R2. **Novell Netware:** 5.x, 6.x.
- **Linux:** Kernel version 2.6.30 or higher.
- **FreeBSD:** Version 7.x or higher.
- **Sun Solaris x86.**
- **VMware ESX.**
- **OS Independent.**
- **DOS.**

The **NIC-6220PF** Multimode Fiber Network Adapter provides a stable and high-performance solution for demanding network environments, ensuring compatibility, durability, and ease of use across a wide range of systems and configurations.



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