

PCIe Gigabit Ethernet Fiber Network Interface Card, PCI Express x1 Intel 82575EB Chipset 1000Base-X Fiber NIC, Single GE SFP Port.

The **NIC-6220PF-SFP** is a high-performance PCI Express multifunction network adapter designed for standard or low-profile slots in fiber-optic network environments. Built on the Intel 82575EB controller, this adapter supports PCI Express x1 and is ideal for desktop applications.



Key Features

Industry-Leading Performance

- Designed for high-end appliances with optimized performance to prevent system I/O from becoming a bottleneck in demanding networking applications.
- Integrated hardware acceleration for TCP/UDP/IP checksum offload and TCP segmentation, reducing CPU workload for application processing.

Reliability, Availability, and Serviceability

- Supports fault-tolerant teaming, allowing traffic from a failed port to reroute through up to seven other team members.
- Equipped with the Intel 82575EB server controller, offering high performance, stability, and compatibility with major computer brands and fiber switches in the market.

Versatile Fiber Connectivity

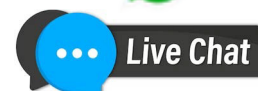
- Features a single SFP connector with options for multimode (MM) or singlemode (SM) fiber, depending on customer requirements.
- Ideal for high-performance FTTD applications.



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Advantages

Intel 82575EB chipset supports advanced features and ensures stable, high-quality performance. Compatible with all major operating systems.
4-layer PCB (1.5oz, 4mil) for enhanced stability, longer lifespan, and reduced resistance.
Triple-line power design (3.3V/2.5V/1.0V) ensures stable operation, unaffected by external power fluctuations.
Manufactured with premium materials, including TI and LT power controllers for a stable working environment.
Supports PXE and Wake-on-LAN (WOL) for advanced network management.

Standard Features

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

Specifications

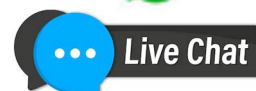
Technical

- **Interface Standard:** PCI Express Base Specification Revision 2.0.
- **PCI Express Card Type:** x1 (compatible with x4, x8, x16).
- **Controller:** Intel 82575EB SFP Port LAN Card.
- **Connectors:** Small Form Factor (SFP).

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Power & Environment

- **Power Consumption:** +12V $\pm 8\%$, +3.3V $\pm 8\%$.
- **Operating Temperature:** -5°C to 40°C (23°F to 104°F).
- **Storage Temperature:** -40°C to 65°C (-40°F to 149°F).

LED Indicators

- **Per Port:**
 - **Link:** Illuminates (green) when connected.
 - **Activity:** Blinks (green) during activity.
- **Location:** LEDs are situated on the PCB and visible through holes in the metal bracket holder.

The **NIC-6220PF-SFP** SFP Port LAN Card delivers reliable and high-performance networking capabilities, making it an excellent solution for diverse fiber-optic network environments.

