

## PCIe Fast Ethernet 100Base-FX Fiber Network Interface Card, Intel 82574 Chipset PCIe x1 Fiber NIC, Single SC Port, SMF.

The NIC-9030PF-LX is a high-performance PCI Express (PCIe) fiber-optic LAN card designed for 100Mbps fast Ethernet applications. It stands out as the first PCIe x1 slot fiber NIC card built with the Intel 82574 Ethernet Controller, offering unmatched reliability and versatility. Equipped with a 1x9 optical transceiver module, it supports various fiber connectors and transmission distances, making it a flexible solution for diverse networking environments.

This NIC is ideal for fiber-to-the-home (FTTH) and fiber-to-the-desktop (FTTD) implementations, enabling reliable, high-speed fiber connectivity while eliminating the need for external optical transceivers traditionally used with Ethernet cards.



### Key Features

### Performance and Reliability

- **Intel 82574 Ethernet Controller:** Ensures low power consumption and optimal performance.
- **PCIe x1 Interface:** Dedicated bandwidth for enhanced speed and reliability.
- **100Mbps Full Duplex:** Achieves up to 200Mbps effective throughput in full-duplex mode.
- **Optical Versatility:** Compatible with single-mode and multimode fiber, supporting distances up to 2km using dual-fiber modules at 1310nm wavelength.

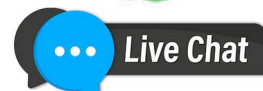
### Advanced Networking

- **IEEE Standards Compliance:**
  - IEEE 802.3z (100Base-SX/LX) for fast Ethernet over fiber.
  - IEEE 802.3x flow control for seamless data transfer.
  - IEEE 802.1Q VLAN tagging for network segmentation.
  - IEEE 802.1p priority control for traffic prioritization.
- **PXE Support:** Remote boot capabilities for efficient system management.
- **IP Multicast Packet Filtering:** Reduces CPU usage by offloading multicast processing.

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## Ease of Use

- **Plug and Play:** Quick and hassle-free setup.
- **Intel PROSet Utility:** Simplifies installation, configuration, and management of Intel network connections.

## Specifications

### Networking Protocols

- IEEE 802.3z 100Base-SX/LX Ethernet.
- IEEE 802.3x flow control.
- IEEE 802.1Q VLAN tagging and GVRP VLAN registration.
- IEEE 802.1p priority control.
- PCIe 1.0 compliant.
- ACPI 2.0 power management.

### Wavelength & Distance

Dual-fiber MM, single wavelength **1310nm**, up to **2km**.

### Environmental Parameters

- **Operating Temperature:** 0°C to 50°C.
- **Storage Temperature:** -25°C to 55°C.
- **Operating Humidity:** 5% to 95%, non-condensing.
- **LED Indicators:**
  - **Red:** Power (PWR).
  - **Green:** Link/Activity (LNK/RA).
- **Dimensions:** 105mm x 57mm.

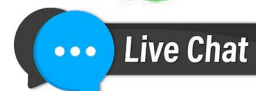
### Software Compatibility

- **Windows:**
  - Windows 2000, XP (32/64-bit), Vista, 7, 8, Server 2003/2008/2012 (32/64-bit).
- **Linux:** Kernel 2.4.x, 2.6.x, and 3.x.
- **Unix:** FreeBSD 7.x and later, OpenUnix 8, UnixWare, Sun Solaris x86.
- **Others:** DOS, Novell ODI, Novell NetWare (5.x, 6.x).

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## Applications

- Fiber-to-the-Desktop (FTTD) and Fiber-to-the-Home (FTTH) deployments.
- Long-distance Ethernet applications requiring reliable fiber connectivity.
- Networking scenarios where traditional Cat 5e cables (100m limit) are insufficient.
- High-speed industrial Ethernet networks.

The NIC-9030PF-LX PCIe Fiber LAN Card combines Intel's cutting-edge technology with a robust design to deliver reliable, high-speed fiber-optic connectivity. Its versatility, ease of installation, and advanced networking features make it the ideal choice for extending your network while maintaining performance and reliability.

