

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

The NIC-9030PF-SFP is a robust and versatile PCI Express (PCIe) fiber-optic LAN card, offering 100Mbps fast Ethernet connectivity for modern networking demands. Powered by the reliable Intel 82574 Ethernet Controller, this NIC is among the first PCIe x1 slot fiber cards of its kind, supporting seamless integration and high-speed performance. Its SFP (Small Form-factor Pluggable) port provides flexible compatibility with various optical transceivers, allowing users to customize fiber connectors and transmission distances to suit their specific requirements.



Designed for environments where traditional Cat 5e cabling (>100m) falls short, the NIC-9030PF-SFP enables a reliable fiber-optic link for fiber-to-the-home (FTTH) and fiber-to-the-desktop (FTTD) solutions.



### Key Features

### Performance and Connectivity

- **Intel 82574 Ethernet Controller:** Offers high performance and energy efficiency.
- **PCIe x1 Interface:** Ensures dedicated bandwidth for reliable data transfer.
- **SFP Port:** Supports multimode and single-mode optical modules for distances up to 2km.
- **100Mbps Full Duplex:** Delivers up to 200Mbps effective throughput.

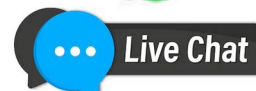
### Advanced Networking

- **IEEE Standards Compliance:**
  - IEEE 802.3z for 100Base-SX/LX Ethernet over fiber.
  - IEEE 802.3x flow control for efficient data flow.
  - IEEE 802.1Q VLAN tagging for secure and efficient network segmentation.
  - IEEE 802.1p traffic prioritization for improved quality of service (QoS).
- **PXE Support:** Enables remote boot for streamlined management.
- **IP Multicast Filtering:** Reduces CPU workload by offloading multicast packet handling.

**Contact Us:**

Email: [sales@compufox.com](mailto:sales@compufox.com)

 (305) 865-8517  +1 (305) 710-6768



## Ease of Installation

- **Plug-and-Play:** Simplifies setup for quick deployment.
- **Intel PROSet Utility:** Streamlines configuration and management with an intuitive interface.

## Specifications

### Networking Protocols

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

### Wavelength & Distance

- Compatible with dual-fiber SFP transceivers, 1310nm wavelength, supporting distances 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.

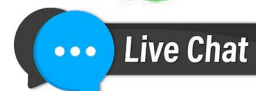
### Software Compatibility

- **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

- Ideal for fiber-to-the-desktop (FTTD) and fiber-to-the-home (FTTH) deployments.
- Suitable for industrial and enterprise networks requiring long-distance Ethernet connectivity.
- Perfect for scenarios where traditional Ethernet cabling is insufficient or impractical.

The NIC-9030PF-SFP is a versatile, high-performance fiber NIC card tailored for users seeking reliable and customizable fiber-optic connectivity. Its advanced features and broad compatibility make it an excellent choice for expanding and optimizing your network infrastructure.

