

**PCI Fast Ethernet 100Base-FX Fiber Network Interface Card, VIA VT6105M Chipset Fiber  
NIC, Single FE SFP Port.**

The NIC-7020PF-SFP is a 100Mbps managed PCI bus fiber optic network interface card (NIC), designed to deliver reliable and high-speed fiber optic connectivity. Ideal for environments requiring network access beyond the standard 100m Ethernet cable range, this NIC provides a dependable fiber-to-the-home or fiber-to-the-desktop solution. Its robust construction, flexible optical module support, and advanced features make it suitable for demanding applications like industrial Ethernet or fast Ethernet fiber deployments.



## Key Features

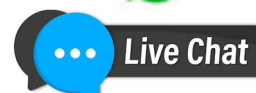
- **Versatile SFP Support:** Compatible with a wide range of 100Mbps SFP modules, including single-mode and multi-mode fiber for customizable working distances.
- **High Performance:** Delivers 100Mbps Fast Ethernet speeds with full-duplex operation for up to 200Mbps throughput.
- **Advanced Build Quality:**
  - Double copper thickness and 50Z heavy gold plating for enhanced heat dissipation and reflection.
  - Optimized circuit design for improved network stability.
  - High-power control to address high-temperature IC issues.
- **PXE Boot Support:** Integrated PXE Boot ROM controller for remote boot functionality.
- **Standards Compliance:** Meets IEEE 802.3u 100Base-FX, IEEE 802.3ah 100Base-LX10/BX10 standards for reliable network performance.
- **Enhanced Flow Control:** IEEE 802.3x flow control in full-duplex mode ensures efficient operation with switches.
- **VLAN and Priority Support:**
  - IEEE 802.1Q VLAN tagging for network segmentation.
  - IEEE 802.1p tagging ensures time-sensitive data delivery.
  - GVRP VLAN registration protocol support.
- **Offloading Features:** TCP/IP CPU task offloading to reduce host CPU usage.
- **Advanced Management:** Supports DMI 2.0 and ACPI 1.0 for efficient management and power control.



**Contact Us:**

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

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



## Specifications

### General

- **Connectors:** SFP port for 100Mbps modules.
- **Data Rates:** 100Mbps (Fast Ethernet), full-duplex mode reaches 200Mbps.
- **PCI Interface:** 32-bit PCI 2.2.

### Network Features

- **Flow Control:** IEEE 802.3x flow control for full-duplex.
- **Address Filtering:** Supports IP unicast, broadcast, and multicast.
- **Power Consumption:** 2W.

### Environmental Parameters

- **Operating Temperature:** 0°C to 50°C.
- **Storage Temperature:** -5°C to 55°C.
- **Humidity Range:** 5%–95%, non-condensing.

### Physical Characteristics

- **Dimensions:** 120mm x 53mm.
- **LED Indicators:**
  - Green for Link/Activity.
  - Green and orange for status indication.

## NOS Software Support

Supports a wide array of operating systems, including:

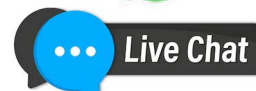
- **Windows:** XP, 7, 8, Vista, Server 2000/2003, ME, 95/98/98SE, NT, CE net 5.0/6.0.
- **Linux:** Ubuntu (up to 10.04), SuSE Enterprise 11, Fedora Core (1.0 to 8.0), Kernel 2.6.19.X.
- **UNIX:** Solaris 8, 9, 10 (x86 and x64), OpenUNIX 8.0, UnixWare 7.x.
- **Others:** FreeBSD (4.x–7.0), Red Hat, Mandrake, and DOS.

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## Advantages

- **Reliability:** Optimized design and enhanced materials ensure durability and stable performance.
- **Flexibility:** Supports customizable optical parameters based on user needs.
- **Efficiency:** Offloads CPU tasks to enhance system performance.

The **NIC-7020PF-SFP** is a robust and cost-effective solution for businesses and individuals requiring reliable fiber optic connectivity with advanced networking features and flexibility.

