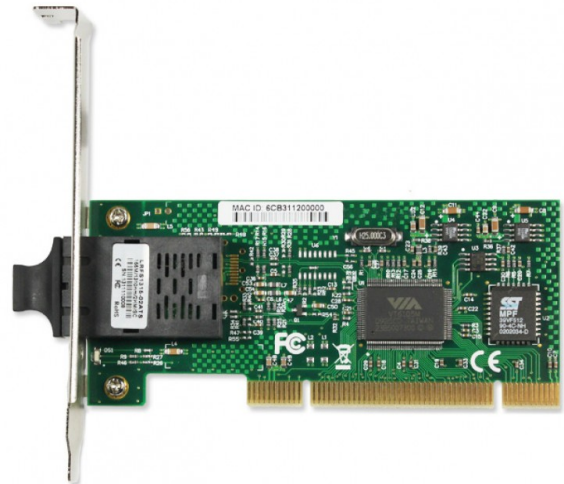


PCI Fast Ethernet 100Base-FX Fiber Network Interface Card, VIA VT6105M Chipset Fiber NIC, Single SC Port, SMF.

The NIC-7020PF-LX is a 100Mbps managed fiber optic network interface card (NIC) designed for PCI bus systems. It provides reliable fiber optic connectivity for fast Ethernet applications and is particularly ideal for extending network access beyond the 100-meter limitation of traditional Ethernet cabling. This card eliminates the need for external photoelectric converters, offering a seamless fiber-to-the-home or fiber-to-desktop solution. Users can customize optical interface parameters, such as connectors, single or multi-mode fiber, and working distance, to suit specific requirements.



Key Advantages

- **Enhanced Design:** Features a 5oz heavy gold-plated double copper layer for excellent signal reflection and heat dissipation.
- **Optimized Circuitry:** Improved PCB layout and network performance.
- **Robust Performance:** High-power control to address IC overheating issues.
- **PXE Boot Support:** Integrated PXE Boot ROM controller for remote booting functionality.

Features

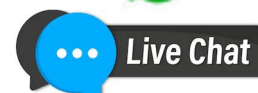
- **Controller:** Based on the VIA VT6105M chipset.
- **Fiber Compatibility:** 100M 1-9 module; supports single-mode (SM) fiber.
- **Form Factor:** Available in both full-height and low-profile options for various chassis sizes.
- **Ethernet Standards:** Compliant with IEEE 802.3u 100Base-FX, IEEE 802.3ah 100Base-LX10/BX10 standards.
- **Duplex Mode:** Supports 100Mbps fast Ethernet in full or half-duplex mode, with 200Mbps achievable in full-duplex.
- **PCI Compatibility:** Supports 32-bit PCI 2.2 buses.
- **Flow Control:** IEEE 802.3x flow control ensures efficient operation in full-duplex mode, especially when connected to switches.



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- **Filtering and VLAN Support:**
 - IP unicast, broadcast, and multicast filtering.
 - IEEE 802.1p tagging for prioritized data delivery.
 - IEEE 802.1Q VLAN tagging and GVRP VLAN registration protocol support.
- **Offloading:** TCP/IP task offloading reduces CPU load for better system performance.
- **Advanced Management:** Supports DMI 2.0 and ACPI 1.0 standards for enhanced manageability.

Applications

- Fiber-to-the-Desktop (FTTD) networks (10/100Mbps).
- Industrial Ethernet applications (10/100Mbps).
- Other fiber optic connectivity needs.

Supported Operating Systems (NOS)

- **Windows:** XP (32/64-bit), 7 (32/64-bit), 8 (32/64-bit), Vista (32/64-bit), Server 2003, ME/95/98/98SE/NT, Server 2000.
- **Linux:** Ubuntu (pre-8.04 to 10.04), SuSE Linux Enterprise 11, Fedora Core 1.0–11.0, Kernel 2.6.19.X, openSuSE (10.3 and earlier), Mandrake/Mandriva (pre-2006–2008), Red Flag, and Red Hat Linux.
- **Unix:** FreeBSD 4.x–7.0, Solaris 8–10 (x86 and x64), UnixWare 7.x, and Sun Solaris x86.
- **Others:** DOS and OpenUNIX 8.0.

Environmental Parameters

- **Operating Temperature:** 0°C to 50°C.
- **Storage Temperature:** -5°C to 55°C.
- **Humidity Range:** 5%–95% (non-condensing).
- **Power Consumption:** 2W.
- **LED Indicators:** Green for link/activity; orange/green for status indication.
- **Physical Dimensions:** 120mm × 53mm.

This NIC offers an excellent solution for modern fiber optic networking needs with its robust design, advanced features, and broad operating system compatibility.



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