

USB3.0 Gigabit Ethernet Fiber Network Interface Card, Realtek RTL8153-CG Chipset 1000Base-X Fiber NIC, Single GE SFP Port.

NIC-3210PF-SFP USB 3.0 Fiber Optical Adapter

The NIC-3210PF-SFP is a USB 3.0 fiber optical adapter designed for high-end applications. Its robust aluminum shell differentiates it from traditional mini NICs with plastic casings, offering improved durability and effective thermal dissipation. The adapter's design allows for both upright and horizontal positioning, combining functionality with an elegant appearance suitable for professional environments.



Key Features

- **Fiber Port:** Compatible with the 1000Base-SX/LX standard for reliable high-speed fiber connectivity.
- **USB 3.0 Interface:** Provides enhanced bandwidth and improved data exchange protocols, while maintaining backward compatibility with USB 2.0 and 1.1.
- **Aluminum Shell:** Delivers superior thermal dissipation and enhanced durability compared to plastic designs.
- **Pluggable Slot Design:** Supports compatibility with various SFP Gigabit modules, ensuring adaptability for diverse networking requirements.
- **High-Speed Performance:** Supports gigabit speeds up to 1000 Mbps, meeting the demands of large data transmission.

Controller Features

Powered by the Realtek RTL8153-CG Ethernet Controller, the NIC-3210PF-SFP integrates:

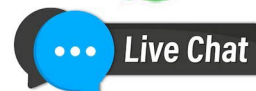
- IEEE 802.3u Media Access Controller (MAC) for robust performance.
- Advanced DSP and mixed-mode signal technology for reliable transmission over CAT 5 UTP and CAT 3 UTP (10 Mbps only).
- Key functions such as Crossover Detection and Auto-Correction, polarity correction, echo cancellation, timing recovery, and error correction for improved reliability.



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Power Management

- **ACPI Support:** Enables efficient power management for modern operating systems.
- **Wake-On-LAN (WoL)** and "RealWoW" (Wake-On-WAN) technologies for remote wake-up functionality.
- **Protocol Offload:** Reduces unnecessary wake-ups and lowers power consumption by offloading ARP (IPv4) and NS (IPv6) protocols.
- **Energy Efficient Ethernet (EEE):** Implements IEEE 802.3az-2010 to save power during low link utilization.

Enhanced Network Performance

- **Checksum Offload:** Supports Microsoft NDIS5 and NDIS6 (IPv4, IPv6, TCP, UDP) to reduce CPU utilization.
- **Jumbo Frame Support:** Handles frames up to 9 KB for enhanced throughput.
- **VLAN and Priority Encoding:** Supports IEEE 802.1Q VLAN tagging and IEEE 802.1P Layer 2 priority encoding.
- **Full Duplex Flow Control:** Aligns with IEEE 802.3x standards for seamless data transmission.

Supported Operating Systems

- **Windows:** XP, Vista, 7, 8, and 8.1 (32-bit and 64-bit).
- **Linux:** Compatibility with major distributions.

Applications

The **NIC-3210PF-SFP** is suitable for a variety of use cases, including desktops, laptops, workstations, servers, communications platforms, docking stations, and embedded systems. Its robust design, high-speed performance, and energy-efficient features make it an ideal choice for both traditional and emerging applications.



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