

## USB3.0 Gigabit Ethernet Fiber Network Interface Card, Realtek RTL8153-CG Chipset 1000Base-LX SM Fiber NIC, Single SC Port.

### NIC-3210PF-LX USB3.0 Fiber Optical Adapter

The **NIC-3210PF-LX** is a USB 3.0 fiber optical adapter, independently developed for high-end applications. Designed with a robust aluminum shell, it offers superior performance and reliability compared to traditional plastic-shell mini NICs. The aluminum shell ensures excellent thermal dissipation, enhancing stability and reliability, while its elegant design complements office aesthetics. The adapter can be used either upright or horizontally for added flexibility.



## Key Features

- **Fiber Port:** Supports 1000Base-SX/LX standard for high-speed fiber connectivity.
- **USB 3.0 Interface:** Provides higher bandwidth and improved data exchange protocols, fully backward-compatible with USB 2.0 and 1.1.
- **Enhanced Thermal Dissipation:** Aluminum shell ensures better heat management compared to plastic casings.
- **Versatile Design:** Supports compatibility with various SFP Gigabit modules, allowing users to adapt to different networking environments.
- **High-Speed Transmission:** Achieves a maximum transmission rate of 1000 Mbps, meeting high data transfer demands.

## Controller Features

Based on the Realtek RTL8153-CG Ethernet Controller, the NIC-3210PF-LX integrates:


- **IEEE 802.3u Media Access Controller (MAC).**
- **USB 3.0 bus controller.**
- **Advanced DSP technology** for robust data transmission over CAT 5 UTP or CAT 3 UTP cables (10 Mbps only).
- Functions like **Crossover Detection and Auto-Correction**, polarity correction, adaptive equalization, echo cancellation, and error correction ensure reliable performance.

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## Advanced Power Management

- **ACPI Support:** For efficient power management in modern operating systems with OSPM (Operating System-directed Power Management).
- **Wake-On-LAN (WoL)** and "RealWoW" (Wake-On-WAN) technologies.
- **Protocol Offload:** Offloads ARP (IPv4) and NS (IPv6) protocols in low-power states to reduce unnecessary wake-ups and power consumption.
- **Energy Efficient Ethernet (EEE):** Supports IEEE 802.3az-2010 for low-power idle mode during low link utilization.

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## Network Performance Enhancements

- **Checksum Offload:** Fully compliant with Microsoft NDIS5 and NDIS6 (IPv4, IPv6, TCP, UDP) for reduced CPU utilization.
- **Jumbo Frame Support:** Up to 9 KB for improved network throughput.
- **VLAN and Priority Encoding:** Supports IEEE 802.1Q VLAN tagging and IEEE 802.1P Layer 2 priority encoding.
- **Full Duplex Flow Control:** Compliant with IEEE 802.3x standards.

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## Supported Operating Systems

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

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## Applications

The **NIC-3210PF-LX** is ideal for various applications, including desktops, laptops, workstations, servers, communications platforms, docking stations, and embedded systems.

Its durable build, high-speed performance, and advanced features make it a reliable solution for demanding environments and emerging markets.



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