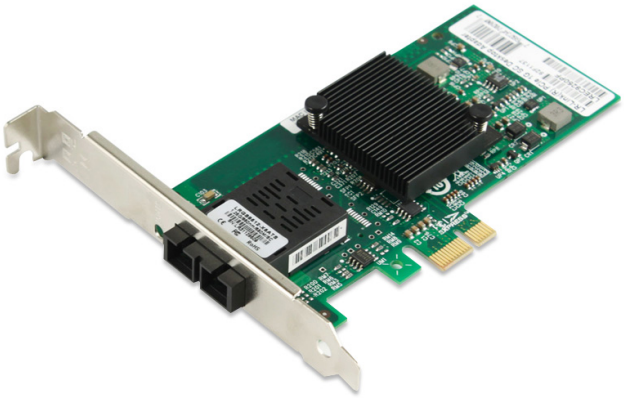
PCIe Gigabit Ethernet Fiber Network Interface Card, PCI Express x1 Intel 82576 Chipset 1000Base-LX SM Fiber NIC, Single SC Port.

PCIe x1 1000Base Single Port Fiber Ethernet Adapter (Intel 82576 Based)

(SC, SFP LC Connector Available)



The **NIC-9260PF-LX** is a high-performance 1000Base-LX Ethernet adapter based on the Intel 82576 Ethernet Controller. This adapter is known for its high data security, reliability, stability, and compatibility, making it widely used in industries requiring secure networking, including prosecution, courts, police, military enterprises, and other defense sectors. It has earned widespread recognition for its outstanding performance.

General Features

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- Intel 82576 Gigabit Ethernet Controller.
- Low-profile design.
- iSCSI remote boot support.
- Load balancing across multiple CPUs.
- Compatible with x4, x8, and x16 PCI Express slots in both standard and low-profile configurations.
- Single-port design.
- Support for most network operating systems (NOS).
- Intel PROSet Utility for Windows Device Manager.
- RoHS-compliant.

Designed for Multi-Core Processors

The **NIC-9260PF-LX** offers high-performance Gigabit connectivity designed for multi-core platforms and virtualized environments. It supports advanced technologies such as:

- **Multiple queues.**
- **Receive-Side Scaling (RSS).**
- **MSI-X.**
- **Low-Latency Interrupts.**

These technologies improve system performance and application response times by optimizing data flow and balancing workload across processor cores. Latency-sensitive data streams benefit from direct, low-latency pathways for improved efficiency.

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Optimized for Virtualization

The NIC-9260PF-LX Single-Port Ethernet Adapter supports Intel's Virtualization Technology for Connectivity (Intel VT for Connectivity), a suite of hardware features that reduce I/O overhead in virtualized environments. This improves CPU usage, reduces latency, and enhances throughput. Key virtualization features include:

- **Virtual Machine Device Queues (VMDq):**
  - Reduces I/O overhead by sorting and coalescing data in the network silicon.
  - Groups packets for the same destination into a single queue for efficient delivery.
  - Relieves the hypervisor of packet filtering and sorting tasks, improving throughput and CPU utilization.
- **Intel I/O Acceleration Technology (Intel I/OAT):**
  - Accelerates data across networking devices, chipsets, and processors.
  - Features include multiple queues, Direct Cache Access (DCA), and Low-Latency Interrupts.
  - Improves application response times by pre-fetching data and efficiently balancing I/O interrupts.
  - In virtualized environments, the NIC-9260PF-LX ensures redundancy and robust data connectivity, meeting the demands of high-performance workloads.

Performance Highlights

The **NIC-9260PF-LX** PCIe Gigabit Adapter features next-generation VMDq technology, which:

- Supports loopback functionality for inter-VM communication.
- Enables priority-weighted bandwidth management.
- Doubles the number of data queues per port from four to eight.
- Supports multicast and broadcast data, further enhancing virtualized server performance.

The **NIC-9260PF-LX** is an ideal choice for secure, high-performance networking applications in both physical and virtualized environments.

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