

PCIe Gigabit Ethernet Fiber Network Interface Card, PCI Express x1 Intel 82576 Chipset 1000Base-X Fiber NIC, Single GE SFP Port.

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

(SC, SFP LC Connector Available)

The NIC-9260PF-SFP is a high-performance 1000Base-SX/LX Ethernet adapter based on the Intel 82576 Ethernet Controller. This adapter provides exceptional data security, reliability, stability, and compatibility, making it widely adopted in secure industries such as prosecution, courts, police, military enterprises, and other defense sectors. It has consistently received unanimous recognition for its superior performance.



General Features

- 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, both standard and low-profile.
- Multi-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-SFP** provides high-performance, single-port Gigabit connectivity in multi-core platforms and virtualized environments. It supports advanced technologies like:

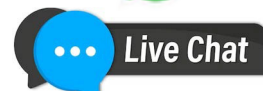
- **Multiple queues.**
- **Receive-Side Scaling (RSS).**
- **MSI-X.**
- **Low-Latency Interrupts.**

These features accelerate data processing and balance workloads across processor cores, improving application response times. For latency-sensitive data, low-latency interrupts bypass delays for efficient delivery.

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Optimized for Virtualization

The **NIC-9260PF-SFP** supports Intel Virtualization Technology for Connectivity (Intel VT for Connectivity), a suite of hardware optimizations that reduce I/O overhead in virtualized environments. These optimizations enhance CPU usage, lower system latency, and improve throughput.

Key virtualization features include:

- **Virtual Machine Device Queues (VMDq):**
 - Reduces hypervisor overhead by sorting and coalescing data in the network silicon.
 - Groups packets destined for the same virtual machine into single queues for efficient delivery.
 - Relieves the hypervisor of packet filtering and sorting tasks, enhancing throughput and CPU utilization.
- **Intel I/O Acceleration Technology (Intel I/OAT):**
 - Accelerates data flow across networking devices, chipsets, and processors.
 - Features include Direct Cache Access (DCA), MSI-X, and Low-Latency Interrupts, improving response times and system performance.

In virtualized environments, the **NIC-9260PF-SFP** ensures redundancy and robust data connectivity, meeting the needs of high-demand workloads.

Performance Highlights

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

- Loopback functionality for inter-VM communication.
- Priority-weighted bandwidth management.
- Doubling data queues per port from four to eight.
- Multicast and broadcast data support for enhanced performance in virtualized servers.

Supported Network Operating Systems (NOS)

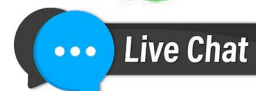
Windows:

- Windows 2000, Windows XP, Windows Vista (32-bit/64-bit), Windows 7 (32-bit/64-bit), Windows 8 (32-bit/64-bit).
- Windows Server 2003, Server 2008, Server 2008 R2, Server 2012 R2 (all 32-bit/64-bit).
- **Linux:** Kernel version 2.6.30 or later (x86_64) with SR-IOV support.
- **FreeBSD:** Version 7.x or later.
- **Novell NetWare:** Versions 5.x and 6.x.
- **DOS.**

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NIC-9260PF-SFP | PCIe Gigabit Ethernet Fiber Network Interface Card - Datasheet



- **Unix and Related:** SCO OpenServer, UnixWare/OpenUnix 8, Sun Solaris x86.
- **OS Independent** platforms.
- **VMware ESX.**

The **NIC-9260PF-SFP** is a versatile and secure solution, offering high-performance networking capabilities suitable for physical and virtualized environments, meeting the demands of enterprise and defense applications.



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