Single-port single-mode gigabit fiber optic network card



Overview

PCI Network Card, Network Interface Card For Sale | FiberintheboxOur fiber network interface cards are available in both Multimode and Single-mode configur.

Key Takeaways

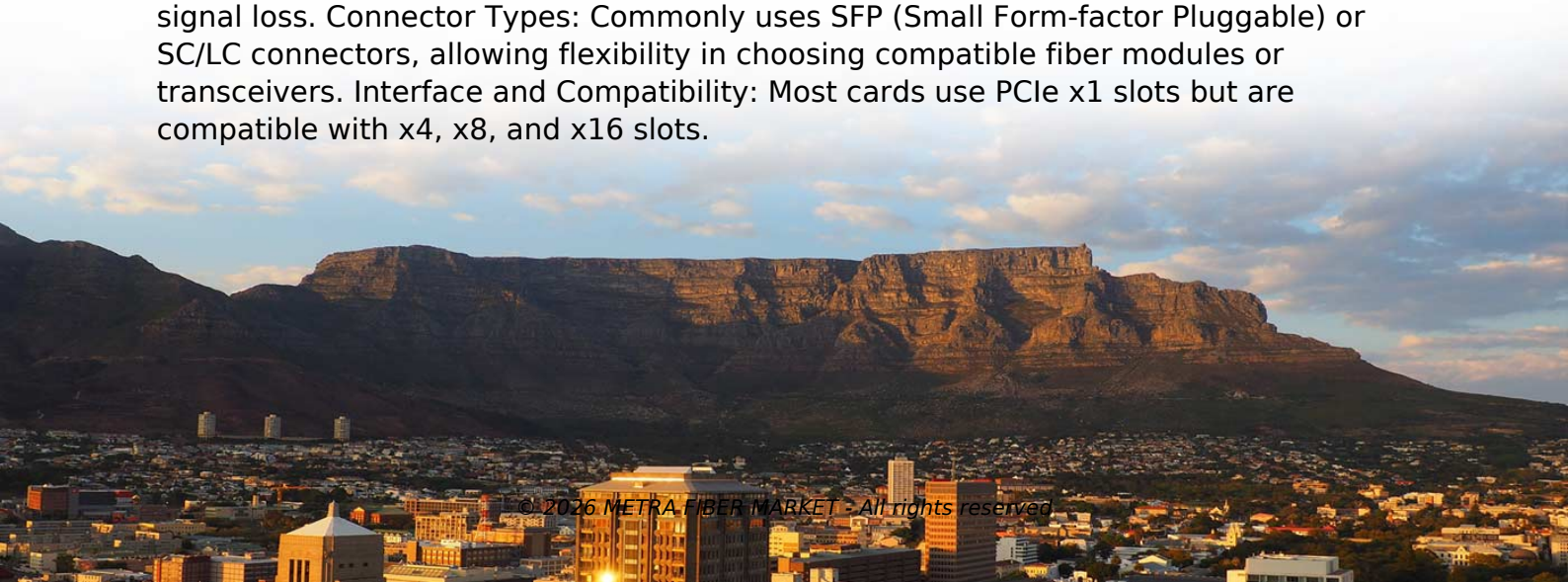
A single-port, single-mode gigabit fiber optic network card provides 1 Gbps connectivity over long-distance fiber using SFP or SC connectors, ideal for servers and enterprise networks.

Key Features

Speed and Performance: Supports 1 Gbps (1000 Mbps) full-duplex operation, with some cards offering up to 2000 Mbps total bandwidth through full-duplex mode, ensuring high-speed data transfer for demanding applications.

Single-

Mode Fiber Support: Designed for single-mode fiber, enabling long-distance transmission (typically 10–40 km depending on the module and card) with minimal signal loss. Connector Types: Commonly uses SFP (Small Form-factor Pluggable) or SC/LC connectors, allowing flexibility in choosing compatible fiber modules or transceivers. Interface and Compatibility: Most cards use PCIe x1 slots but are compatible with x4, x8, and x16 slots.



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They support a wide range of operating systems including Windows (7–10, Server editions), Linux (kernel 2. 6–4.x), FreeBSD, and VMware ESXi. Advanced Features: Many professional-grade cards include VLAN filtering, TCP/UDP checksum offload, TCP segmentation, Jumbo Frame support, and traffic management, reducing CPU load and improving network efficiency.

Plug-and-

Play Installation: Designed for easy installation with minimal configuration, often including gold-plated contacts for durability and heat sinks for stable operation in high-temperature environments.

Use Cases

Data Centers: Ideal for connecting servers to high-speed fiber networks, reducing bottlenecks in storage or compute clusters. Enterprise Networks: Provides reliable long-distance connectivity between buildings or across campuses using single-mode fiber. Network Upgrades: Suitable for migrating from copper Ethernet to fiber infrastructure while maintaining backward compatibility with existing SFP modules.

Example Products

Bucaoz Gigabit Single-

Port SFP NIC: Uses Intel I210 chip, supports single-mode/multi-mode SFP modules, DAC, and AOC cables, compatible with multiple OS platforms. E-link LNK-LC1000 Series SC Fiber NIC: High-performance SC fiber card supporting 1000Base-SX/LX, full-duplex operation, VLAN, and hardware acceleration for enterprise servers.

Fiberinthebox Single-

Mode PCI-E 100M/1G Fiber Card: Offers SC connector options with long-distance single-mode support, suitable for desktop or server installations. These cards provide a reliable, high-speed solution for single-mode fiber networks, ensuring long-distance connectivity, low latency, and efficient server performance.

Article Content

PCI Network Card, Network Interface Card For Sale | Fiberinthebox

Our fiber network interface cards are available in both Multimode and Single-mode configurations with ST, SC, MTRJ, or LC connectors, and SFP for Gigabit.

1-Port GbE SFP Network Card, PCIe 2.1 x1, Intel I210-IS, 1GbE ...

1-Port GbE SFP Network Card, PCIe 2.1 x1, Intel I210-IS, 1GbE Controller, 1000BASE Copper/Fiber Optic, Single-Port Gigabit Ethernet NIC, Desktop/Server Backplanes - Windows and Linux Compatible

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Amazon : Fiber Optic Network Card

Bucaoz Gigabit Single Port SFP Fiber Optic Network Card,with Intel I210 Chip PCIe X1 Ethernet Converged Network Adapter (with a Piece Multi Mode Optical Module) Support Windows

Amazon : Bucaoz Gigabit Single Port SFP Fiber Optic Network

Designed for seamless integration into fiber optic interface networks, this SFP network card supports SFP single-mode/multi-mode optical modules, DAC stacking lines, and AOC active optical cables.

PCIe Network card Gigabit SC Fiber NIC 1000Mbps | e-link

This advanced single-port SC fiber network card delivers exceptional network performance through its innovative dual-interface design,

GNC-0110 Gigabit Fiber PCIe-x1 Network Card, 1 x SFP

The LevelOne GNC-0110 is a reliable Gigabit fiber-optic network card designed to provide high-speed, secure connectivity within decentralized fiber networks.

Guide to Fiber Network Cards: 10G/25G/100G NIC

Fiber network cards are no longer niche, they''re central to modern servers, storage, and AI infrastructure. From simple 10G upgrades to full 100G leaf–spine

PCIe Network Card Gigabit SFP Fiber NIC 1000Mbps

This advanced single-port SFP fiber network card delivers exceptional connectivity through its versatile SFP transceiver slot, supporting both duplex and single fiber

Copper vs Fiber Cabling Explained | ComputingForGeeks

Compare copper vs fiber cabling: UTP categories and the 100 m limit, multimode vs single-mode fiber, straight-through vs crossover, and connectors.

American Tech Depot Tripp Lite Gigabit SMF Fiber to Ethernet Media ...

Media converter lets you extend your copper Gigabit Ethernet network connection up to 20 km (12.4 mi.) over fiber optic cable. Features Extend Your Gigabit Ethernet Signal up to 12.4 Miles via SC

angola-gigabit-industrial-optical-modules Manufacturer/Producer

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Secure & Reliable Fiber Optic Connectivity Solutions

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Fiber Optic Solutions for MISSION-CRITICAL APPLICATIONS American-Engineered Connectivity Solutions trusted by Government,Defense, Utilities, Industrial & Commercial Networks Worldwide.

Amazon : Fiber Ethernet Kit

Single Mode Fiber Converter – Gigabit Ethernet Mini Media Adapter, LC Transceiver Module, High Speed Network Solution | 2 Units Single Mode Converter For Stable Fiber Optic And Networking

Ethernet

Fiber optic variants of Ethernet (that commonly use SFP modules) are also very popular in larger networks, offering high performance, better electrical isolation and longer distance (tens of kilometers

Fiber Optic Products & Accessories Manufacturer/Supplier

UnitekFiber is a professional manufacturer of fiber Indoor/outdoor cables, MPO/MTP fiber patch cords,fiber optic patch panel. SFP optical transceiver, fiber optical connectivity and PLC splitter. Our

SFP+ 10GB M.2Pcie 4X Server Network Card X520-da Fiber Optic

SFP+ 10GB M.2Pcie 4X Server Network Card X520-da Fiber Optic Ethernet Adapter 82599 Chip for Desktop Description More stable performance and smoother use Using 82599 Ethernet control chip,

Fiber Optic Connector Types: Full Comparison

Fiber Optic Connector Types: Full Comparison & Selection Guide LC, SC, FC, ST, MPO/MTP compared: ferrule sizes, polishing types, insertion loss,

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module format used for

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