

Gigabit Single-Mode Fiber Network Card



AI Overview

A Gigabit Single-Mode Fiber Network Card provides high-speed, long-distance connectivity using a PCIe interface and SFP transceivers compatible with single-mode fiber (SMF). Overview A Gigabit Single-Mode Fiber Network Card is designed to connect computers or servers to fiber-optic networks, supporting 1 Gbps full-duplex transmission over long distances using single-mode fiber (SMF) cables. These cards typically use a PCIe x1 or x4 interface to connect to the host system, ensuring sufficient bandwidth for gigabit speeds while minimizing CPU utilization through features like Interrupt Moderation and hardware-based time synchronization (LevelOne GNC-0110) .Key Features SFP Slot Compatibility: Accepts Small Form-Factor Pluggable (SFP) transceivers, allowing flexibility to choose modules for single-mode fiber (e.g., 1000BASE-LX/LH, 1000BASE-BX10-D/U) depending on distance requirements .Long-Distance Support: Single-mode fiber NICs can transmit over kilometer-scale distances, with some SFP modules supporting up to 40 km on a single strand of SMF .Power Efficiency: Many cards support Energy Efficient Ethernet (EEE), reducing power consumption during low network activity by transitioning to a low power idle (LPI) state .Network Management: Features like IEEE 802.1Q VLAN support allow network segmentation, enhancing security and performance .Remote Management: Built-in Wake-on-LAN functionality enables remote system startup .Operating System Support: Compatible with multiple OS platforms, including Windows and Linux, ensuring broad deployment flexibility .Installation and Compatibility Select an available PCIe slot (x1 or higher) on the host system. Insert the NIC carefully and secure it with bracket screws. Install drivers and firmware from the vendor to ensure proper recognition and performance. Insert the appropriate SFP module for single-mode fiber, matching the required distance and wavelength (e.g., 1310 nm for 10 km, 1490/1550 nm for longer links) .Connect SMF cables to the SFP...

Article Content

The Comprehensive Guide to PON Architecture: Mastering OLT,

The Passive Optical Network (PON) is the indispensable foundation for delivering ubiquitous, multi-gigabit broadband connectivity, a necessity for modern economies and residential

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

1-Port GbE SFP Network Card, PCIe 2.1 x1, Intel I210-IS, 1GbE Controller, 1000BASE Copper/Fiber Optic, Single-Port Gigabit Ethernet NIC,

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.

Alcatel-Lucent (Nokia) 3HE00564CA 01 10GBASE-LR XFP Optical

The Alcatel-Lucent (Nokia) 3HE00564CA 01 is a genuine original 10GBASE-LR XFP optical transceiver, manufactured by Finisar for Nokia/Alcatel-Lucent. Designed for carrier-grade 10 Gigabit Ethernet

world.taobao : tp-link tl-sh3428p 10 gigabit uplink three-layer ...

welcome to taobao purchase tp-link tl-sh3428p 10 gigabit uplink thread-layer managed core gigabit poe switch with 4 optical and 24 sports, taobao taobao taobao/tmall number billion hot selling goods,

InLine® Gigabit network card, 1x SFP fibre 1Gb/s, PCIe x1, LP slot ...

This InLine® Gigabit network card, 1x SFP fibre 1Gb/s was developed for use in desktop, server and embedded systems and meets modern requirements in terms of energy efficiency, form factor and

RAMEX Ethernet to Fiber Converter Gigabit SMSF Up to 20KM Single Mode ...

The multiple payment options available to buy RAMEX Ethernet to Fiber Converter Gigabit SMSF Up to 20KM Single Mode Fiber 1 Ports 1000 Mbps Smart Network Switch in Online are Credit Card, Debit

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

This high-performance SC fiber network card provides network administrators with a future-proof solution for migrating from

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.

100 Gigabit Ethernet

100 Gigabit Ethernet 40 Gigabit Ethernet (40GbE) and 100 Gigabit Ethernet (100GbE) are groups of computer networking technologies for transmitting Ethernet frames at rates of 40 and 100 gigabits

10G PCIe Network Card RTL8127 10 Gigabit SFP+ Fiber NIC Adapter

10G PCIe Network Card RTL8127 10 Gigabit SFP+ Fiber NIC Adapter for Server Workstation for Linux for Windows Low Profile Description Supports PCIe X4 interface for enhanced connectivity Multi-rate

Tp-link optical module is the real king! 20km gigabit single-mode sfp ...

For network administrators stuck with fiber distance limitations, geeks toiling until 3 am with self-built nas setups, and it pros constantly wrestling with loose ports due to repeatedly plugging

Ubiquiti 10G Single-Mode Optical Module UACC-OM-SM-10G-D-2

Supports single-mode fiber connections up to 10 km With 10GBase-X technology, enjoy up to 10Gbps data transfer rate over supported network cable Optimize the network's performance with 10 Gigabit

14-slot dual-power fiber rack ✂ Hikvision/ruijie/tp full ...

Optical Fiber Transceiver Rack Suitable for Chassis Frame 14 Slots 16 Mercury Gigabit Transceivers Suitable for Chassis Dual Power Supply Tplink Hikvision Ruijie 100m ¥ 50.00 Buy now

media converter 2 5 gigabit

Gigabit Media Converter, 1000Mbps 2*SFP Ports + 2*RJ45,5-12V Wide Voltage,Single Mode Single Fiber 3/20km,SC Port, for IP Camera US \$25.34 US \$2 off on US \$15 Save US \$29.75

HTF DWDM equipment,OTN Solution,QSFP28 OSFP

HTFuture offers industry-leading fiber optic products and WDM system solutions with global recognition for excellence and innovation.

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

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

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

Gigabit Fiber PCIe Network Card, 1 x SFP | Unique

Product Quantity: Enter the desired amount or use the buttons to increase or decrease the quantity. Enter your email in the field below and we will notify you

Shengwei lc-sc fiber optic patch cord | single-mode dual-core ...

Have you ever tried: gigabit broadband is installed, the router is replaced, but the speed test is stuck at 100mbps? when i checked the "unnoticeable" jumper between the optical modem and

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

StarTech Multi-Mode (MM) / Single-Mode (SM) Fiber

The Gigabit fiber media converter provides a cost-efficient way to connect your Ethernet network to remote devices over a fiber backbone. It features an open

Ubiquiti UISP Fiber XGS/XG Optical Transceiver UACC-UF-OM-XGS

Ubiquiti UISP Fiber XGS/XG Optical Transceiver 10 Gbps optical transceiver module designed for the UISP Fiber OLT XGS. With 10GBase-X technology, enjoy up to 10Gbps data transfer rate over

Cisco SFP Modules for Gigabit Ethernet Applications

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit Ethernet Applications.

9 Best Mesh WiFi Systems for Gigabit Fiber Internet: Tested for 1

Gigabit fiber is incredibly fast—yet a single router still leaves dead zones. That's why we sifted fresh lab tests, firmware notes, and forum chatter to surface nine mesh kits that keep your

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.adicor.eu>

Email: info@adicor.eu

Phone: +33 6 48 37 92 15

Address: 12 Rue de la Paix, 75002 Paris, France

This document is for informational purposes only. Specifications subject to change without notice.

