

PCIe to Fiber Optic Communication Card



Article Overview

PCIe to fiber optic cards enable high-speed, long-distance PCI Express connectivity by converting standard PCIe signals to optical signals, supporting transparent operation without additional drivers.

Overview

PCIe over fiber optic cards allow standard PCI Express (PCIe) expansion cards to operate remotely from the host computer while maintaining full functionality as if installed locally in the PCIe slots . These cards are particularly useful in applications requiring long-distance connections, high channel counts, or reduced electromagnetic interference, where traditional copper PCIe cables are limited in length and performance .

Key Features

- **Transparent Operation:** Most PCIe over fiber solutions operate without additional drivers or software, making them plug-and-play for the host system .
- **Supported PCIe Generations:** Modern cards support PCIe Gen3 and higher, enabling high bandwidth up to 8 Gb/s per lane, with scalable x4, x8, or x16 lane configurations .
- **Optical Transceivers and Cables:** Systems typically use pluggable multi-mode or single-mode QSFP and SFP transceivers, Active Optical Cables (AOC), or Direct Attach Cables (DAC). FireFly optical engines are commonly used for reliable signal transmission .
- **Distance:** Fiber optic links can extend PCIe connections up to 100 meters dependi...

Article Content

StarTech PEX1000SFP2 PCI Express Gigabit Ethernet Fiber

The PEX1000SFP2 PCI Express Gigabit Fiber Network Card lets you connect a PCI Express-based computer directly to a fiber optic

PCI and PCI-X Extensions

PCI and PCI-X over fiber optic extension systems allow standard PCI cards to operate remotely at distances from a few meters to

PCIe OVER FIBER GUIDE

Unlike other optical based solutions, these Active Optical Cables are truly interchangeable with existing copper cables as they

StarTech PCI Express Gigabit Ethernet Fiber Network Card w/

The PEX1000SFP2 PCI Express Gigabit Fiber Network Card lets you connect a PCI Express-based computer directly to a fiber optic

fiber pcie | Newegg

IOCREST PI29F21, PCIe 2.0 10 Gigabit Dual Optical Port SFP+ Server Fiber Network Card, 82599ES Chip, 2x 10G SFP+ Ports, PCI

PCIe SFP Fiber Network Card

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StarTech PEX1000MMSC2 PCI Express (PCIe) Gigabit Ethernet

The PEX1000MMSC2 PCIe Gigabit Fiber Network Card lets you connect a desktop PC directly to a fiber optic network, by adding a

FireFly | fiber optic |PCIe Gen3 Adapter | PXH842

Based on Broadcom® PLX Gen3 PCI Express bridging architecture, the PXH842 adapter includes advanced features for transparent

FireFly | fiber optic |PCIe Gen3 Adapter | PXH842

Dolphin Express PXH842 provides a 128 Gigabit/s PCI Express cable link to IO systems. The adapter card uses the Samtec PCIe

StarTech PCI Express Gigabit Ethernet Fibre Network Card, W

Applications Connect a PCI Express-Based Desktop or Rackmount PC Directly to a Fiber Optic Network - Suitable for secure setups

1 PORT PCIE FIBER NETWORK CARD SC FIBER GIGABIT NIC

The PEX1000MMSC2 PCIe Gigabit Fiber Network Card lets you connect a desktop PC directly to a fiber optic network, by adding a

StarTech PCI Express (PCIe) Gigabit Ethernet Multimode SC Fiber ...

Product Description The PEX1000MMSC2 PCIe Gigabit Fiber Network Card lets you connect a desktop PC directly to a fiber optic

Adnaco-S1B: 5Gb/s Over Fiber Optic Expansion System – 4 PCIe Slots

The Adnaco-S1B PCI/PCIe Gen 2 Expansion System allows system integrators to operate 4 PCIe Gen1/Gen2 add-in cards over fiber

Gigabit Fiber SFP PCIe Network Card | Fiber Network Cards

PCI Express Gigabit Ethernet Fiber Open SFP PCIe Network Card Adapter NIC Connect a PCI Express-based PC directly to a fiber

PCIe Fiber Optic Network Card

PCI Express (PCIe) Gigabit Ethernet Multimode SC Fiber Network Card Adapter NIC - 550m - TAA Connect a PCI Express-based

PCIe Over Fiber Adaptor Card

PCI Express®-Over-Fiber Adaptor Card features Samtec's PCI Express®-Over-Fiber FireFly™ optical cable solution with key

Fiber Optic PCIe Card | FPGA Accelerator Card | Guzik

PCIe Fiber Optic Network Card. Fiber Optics to PCIe Bridge / FPGA Accelerator Card to enable evolving markets to take advantage

Adnaco-S5 Gen2 PCIe Expansion System Over Fiber Optic | Adnaco

The Adnaco-S5 Gen2 20GT/s PCIe Expansion System allows system integrators to operate one PCIe x1, x4, x8 and x16 Gen1/Gen2

Contact Us

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