

Fiber optic network card dual-port single-mode



Summary of Content

Dual-port single-mode fiber NICs provide high-speed, long-distance connectivity for servers and workstations, supporting 10GbE, 25GbE, or higher speeds over single-mode fiber.

Overview

A dual-port single-mode fiber network interface card (NIC) is designed to connect a computer or server to a fiber optic network using single-mode fiber (SMF), which is optimized for long-distance transmission (up to 10 km or more) with minimal signal loss . Dual ports allow link aggregation, load balancing, or redundancy, improving throughput and fault tolerance .

Key Features

- **Speeds:** Common options include 10GbE (SFP+), 25GbE (SFP28), and higher, depending on the NIC model .
- **Form Factor:** PCIe cards, compatible with PCIe 3.0 or 4.0 slots; some require full-height or low-profile brackets .
- **Transceivers:** Pluggable SFP+ or SFP28 modules; single-mode modules support long-range connections (up to 10 km for 10GbE, 10 km+ for 25GbE), .
- **Operating System Support:** Most cards support Windows, Linux, and macOS (with appropriate drivers), .
- **Advanced Features:** Offloading, SR-IOV, PTP, and SMB Multichannel support for enhanced performance and reduced latency .

Article Content

Difference Between Single and Dual Fiber Optical Transceivers

Fiber optic technology has seen incredible growth over the past several years and will likely experience even more

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

StarTech 2-Port GbE SFP Network Card, PCIe 2.0 x1

StarTech 2-Port GbE SFP Network Card, PCIe 2.0 x1, Intel I350-AM2 2X 1GbE Controller, 1000BASE Copper/Fiber Optic, Dual

10G NIC, 25Gb NIC, 10G 25G SFP28 Ethernet network card | FiberMall

FiberMall offers dual-port 25G SFP28 Fiber Ethernet PCI-Express v3.0 x8 NICs based on Intel/NVIDIA chips, and single/dual/quad

Twin10G SFP28 PCIe Card (Dual-port 10GbE Card with Two SFP28 ...

To connect easily to your 10GbE optical network, Twin10G SFP28 PCIe Card includes two short-range multi-mode fibre SFP28

Single-mode vs Multimode SFP, What's the Difference?

In the optical communication industry, single-mode SFP and multi-mode SFP are the two

10Gb PCI-E X8 Dual SFP+ Port Fiber Fiber Optic Network Card, (with

About this item Dual SFP+ Port Fiber Optic Network Card (with 2 piece Single mode optical module) is compatible Windows

StarTech Dual Port 40G QSFP+ Network Card, 40GbE Fiber Optic

With its open QSFP+ slots, the network interface card supports QSFP+ transceiver modules and is compatible with multimode and

fiber network cards | Newegg

10Gb Network Card, Dual-Port SFP+ Fiber Ethernet Adapter, with Broadcom BCM57810S Chip, PCI-Express X8 NIC Support

pci fiber network card | Newegg

PCI-E X8 10G Dual SFP+ Port Fiber Optic Network Card, X520-DA2 with 82599 Chip Ethernet Adapter Server E10G42BF Support

Dual-Port QSFP+ Server NIC Card | Network Adapter Cards

Dual Port 40G QSFP+ Network Card - Intel XL710 Open QSFP+ Converged Adapter - PCIe 40 Gigabit Ethernet Server NIC - 40GbE

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StarTech Dual Port 40G QSFP+ Network Card - Intel XL710 Open QSFP+ Converged Adapter PCIe 40 Gigabit Fiber Ethernet

[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

[fiber network cards | Newegg](#)

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Twin10 SFP28 PCIe Card

Sonnet offers a powerfully simple way to add dual-port 10GbE fiber optic connectivity to your Mac Pro

StarTech Dual Port PCIe Network Card, Dual Port Gigabit NIC

Add dual Gigabit Ethernet ports to a client, server or workstation through a PCI Express slot The PCI Express Dual-Port Gigabit

The Difference Between Single/Dual Fiber and Single/Multi-Mode Optical ...

As fiber optic networks continue to evolve, selecting the right optical transceiver becomes increasingly important.

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SFP Transceivers Small Form-Factor Pluggable (SFP) Transceivers

Many SEL products make use of small form-factor pluggable (SFP) transceivers for fiber optic communication. See the range of SFP

1-Port 10G SFP+ Fiber Optic Network Card

Upgrade your server or workstation to 10G Ethernet for fast, high-bandwidth connectivity over multimode fiber Single-port 10G

[10g dual sfp network card | Newegg](#)

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

Solo10ZG SFP+ v2 PCIe Card

Solo10G SFP+ V2 PCIe Card includes a short-range multi-mode fiber SFP+ transceiver to enable easy connection to your optical

H!Fiber 10Gb SFP+ PCI-E Network Card NIC, with Broadcom

Buy H!Fiber 10Gb SFP+ PCI-E Network Card NIC, with Broadcom BCM57810S Chip, Dual SFP+ Port Card, PCI Express X8,

Fiber optic network card dual port

Various fiber optic network card dual port kinds, including single- and multi-mode fibers, serve distinct purposes. Because of their low

2-Port 10G Fiber Network Card

2-Port 10G Fiber Network Card with Open SFP+ - PCIe, Intel Chip Add two 10 Gigabit Fiber Ethernet ports

Amazon : HINYSENO Dual Port 10GbE SFP+ Fiber Optic PCI

Dual Port 10GbE SFP+ Fiber Optic PCI-Express x 8 NICs Gigabit Ethernet Server Adapter 2 Port Network Interface Controller Card

2-Port GbE SFP Network Card, PCIe 2.0 x1, Intel I350-AM2 2x 1GbE ...

2-Port GbE SFP Network Card, PCIe 2.0 x1, Intel I350-AM2 2x 1GbE Controller, 1000BASE Copper/Fiber Optic, Dual-Port Gigabit

StarTech 2-Port 10G Fiber Network Card with Open SFP+

Get fast, high-bandwidth connectivity with this cost-effective fiber network card. It adds two open SFP+ slots to your server or high

Contact Us

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