

Dual-port fiber optic switch



Article Overview

A dual-port fiber optic interface on a switch provides two SFP slots for high-speed fiber connections, enabling long-distance data transmission and integration with copper Ethernet networks.

Overview

A dual-port fiber optic interface typically consists of two SFP (Small Form-factor Pluggable) slots that allow the switch to connect to other network devices using fiber optic cables. These ports support both single-mode fiber (SMF) for long-distance links and multi-mode fiber (MMF) for shorter indoor connections, depending on the SFP module installed. Each port can operate independently, providing redundancy or increased bandwidth when used in aggregation.

Functionality

- **High-Speed Data Transmission:** Dual fiber ports support Gigabit Ethernet speeds (1.25 Gbps per port) and can handle large volumes of data with low latency.
- **Media Conversion:** These ports can convert electrical signals from RJ45 copper Ethernet ports to optical signals for fiber transmission, allowing seamless integration between fiber and copper networks.
- **Long-Distance Connectivity:** Single-mode SFP modules (1310 nm) can transmit up to 20 km, while multi-mode SFP modules (850 nm) are suitable for distances up to 2 km, making them ideal for connecting remote sites or building backbones.
- **Flexibility:** SFP ports are hot-swappable, allowing network administrators to change modules without powering down the switch.

Article Content

4 Port Din-Rail Gigabit Ethernet Switch with 2 SFP

4 PORT DIN-RAIL INDUSTRIAL SWITCH - Providing 4*10/100/1000Base-T Ethernet ports and

Fast, Gigabit, and 10 Gigabit Ethernet Switches with SFP+ Modules

Managed and unmanaged Layer 2 and Layer 3 fiber optic Ethernet switches. With 10G SFP+ fiber optic transceiver modules, they

24-Port Gigabit Optical Fiber Switch with 24 SFP Ports – GAOTek

The GAOTek 24-Port Gigabit Optical Fiber Switch features 24 SFP ports, 92 Gbps switching capacity, 480 Gbps stack bandwidth,

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

Fiber Optic Switches Information

Features Control signal choices for fiber optic switches include RJ-45, RS232, RS422, and TTL. Common switch features include

4 Port 10/100/1000 RJ45 to Fiber Switch

Our ESW-2206 optical fiber switch has 2 fiber optic SFP module ports. It supports dual optical SFP modules and gigabit transmission

Fiber Optic Switches, Multiplexers, Demultiplexers

Shop DigiKey's large in-stock selection of Fiber Optic Switches, Multiplexers, Demultiplexers. [View](#)

Amazon : Fiber Switches

Discover fiber switches designed for reliable network connectivity. Browse 10G, 2.5G, and gigabit options to expand your bandwidth.

Fiber Optic Network Switches

Our Ethernet network switches with fiber ports comes in managed or unmanaged formats combined with

OmniConverter® Compact Fiber Switches

OmniConverter Compact Ethernet Switches feature one or two uplink ports and up to eight 10/100/1000 RJ-45 ports, and are

Industrial 8 Ports Gigabit Ethernet Switch Fiber Switch ...

Overview This is an unmanaged industrial network switch with 8 ports 10/100/1000Base-TX RJ45 and 2 ports 100/1000Base-X SFP.

6302 Dual Channel LC Duplex A/B Switch with Telnet

The Model 6302 is an IP Addressable, Single Channel LC Duplex A/B Switch with Telnet and GUI that

10/100M 2-port industrial Ethernet switch

Unmanaged industrial Ethernet fiber switch with 1*10/100M RJ45 port and 1*155M uplink SC fiber port (1310nm/20km single-mode

24-Port Fiber Optic SFP Managed Switch with 10G Uplink

24 port Fiber Optic SFP Managed Switch allows you finish fiber connectivity that is with different bandwidth requirements conveniently

10/100/1000M 2-port Rj45+1 fiber port dual fiber SM

This Gigabit Ethernet Fiber Switch has 2 10/100/1000M UTP ports and 1 fiber port

Amazon : Fiber Optic Network Switch

Amazon : fiber optic network switch Dual RJ45 Ports – Pair of Fiber Media Converters, Gigabit Ethernet, MM LC 850nm SFP

Hanutech Unmanaged 6 Port Fiber Switch 10/100Mbps,6 Fiber Port 2

Product Description Ether Fiber Switch 10/100 Base-Tx Our ESW-628 optical fibre switch has 2 Fiber Optic Duplex ports 100 Base

Single vs Dual Fiber Media Converters (2025): A/B Pairing and WDM

Introduction Answer first: a media converter translates between supported Ethernet physical interfaces; choose single

ExaGrid 25GbE Dual Port SFP+ Optical Switch

This ExaGrid SFP+ Optical Switch is a multi-port network bridge, which connects multiple optic fibers and controls data packets

10 port managed Ethernet to multimode fiber optic switch, EL1000

The EL-1000-4GM is a 10-port managed Industrial Ethernet Layer 2 switches. Compact Ethernet switch with 2 fiber optic and 8 RJ45

Fiber Optic Ethernet Switch with 2 Fiber Ports & 8 UTP

What is a 2 fiber port 8 LAN port fiber optic Ethernet switch? It is a hybrid Ethernet switch that integrates

10Gtek 5-Port Fast Ethernet Desktop Fiber Switch, 2

10Gtek focuses on developing high performance cable and transceiver solutions

Modicon Extended Managed Switch

It comes with 8 copper cable transmission ports and 2 ports for single-mode fiber optic. It provides simple and complex connectivity

Shenzhen Marstars Technology Co.,Ltd

The 5-port fiber switch is with 100M optical fiber port and 10/100M Ethernet RJ45 ports. The product is possessed of stable

Fiber Optic Ethernet Switch with 2 Fiber Ports & 8 UTP

It is a hybrid Ethernet switch that integrates two SFP fiber ports (1.25 Gbps) and

24-Port Layer 3 Stackable 10 Gigabit Fiber Managed Switch

The DXS-3400 Series switches feature a modular fan and power supply design for a high availability architecture. The hot-swappable

Single vs Dual Fiber Media Converters (2025): A/B

Short answer: Usually yes, you use them in pairs, but the “pair” can be a media converter on

7188 4-Channel LC Duplex Fiber Switch, Ethernet

QuickSwitch® 7188 4-Channel Fiber Optic LC Duplex A/B Switch with Ethernet and RS232 Remote

How to Connect Multiple Ethernet Switches Using Fiber Optic Cables ...

To connect multiple Ethernet switches, the best way is to use a multi-strand fiber cable. The 4-strand pre-terminated

Contact Us

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