

Optical module with two ports



Article Overview

A 2-port optical module can support dual optical connections, or a mix of optical and copper connections depending on the module type and configuration.

Types and Configurations

1. NetApp X60130A This QSFP28 module supports dual-port operation where one port can be used for optical Ethernet with a transceiver and the other for copper (DAC) connections. It supports 40Gbps optical Ethernet via transceivers or Active Optical Cables (AOC) and 100Gbps using both AOC and transceivers. Deployment depends on storage configuration: dual NIC setups with multiple shelves allow mixing optical and copper ports for storage and data traffic separation . 2. Huawei ES5D21X02S00 This module provides two 10GE SFP+ optical ports capable of transmitting and receiving Ethernet at 1 Gbps or 10 Gbps. It supports SFP+ optical modules, GE SFP optical modules, copper modules, and AOC cables, allowing flexible deployment for data access, line-rate switching, or stack port connections . 3. Media Converters with 2 SFP Ports Devices like the LO-MC-1000C2S enable conversion between multimode and single-mode fibers or dual-fiber to single-fiber transmission. Both SFP slots can accept various transceivers (SFP SX, SFP LX, BiDi/WDM), supporting speeds from 10 Mbps to 2.5 Gbps and network extension up to 120 km. These converters are ideal for extending optical networks or regenerating signals .

Key Considerations

- Port Type Flexibility: Some modules allow mixing optical and copper connections, while others are strictly optical....

Article Content

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise

The Key External Components of Optical Modules

An optical module serves as the backbone of modern fiber-optic communication. Its appearance often resembles a

Understanding Pluggable Optical Modules

This type of optical module is mainly used in scenarios where one CSFP optical module connects to two BIDI SFP optical modules. It

Gigabit 2-port single-mode dual fiber media converter-Optical Fiber ...

Users can select different optical modules, such as multi-mode dual fiber, single-mode dual fiber, and single-mode single fiber. The

Understanding Optical Modules: Types and Troubleshooting Guide

Optical modules come in various types, and their external structures are not exactly the same. However, their basic compositional

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

What Is A Single-Fiber BiDi Transceiver?--ETU-LINK

Dual fiber module has two ports, TX is transmitting port, RX is receiving port. Both transmitting and receiving needs one optical fiber,

Cisco QSFP28 100G ZR Digital Coherent Optics

Cisco ® QSFP28 100G ZR extends 100GbE coherent links from QSFP28 ports reaching up

What Is an Optical Module

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the

Fiber Panels, Modules & Cassettes

Explore CommScope's efficient and scalable fiber splice panels designed for seamless connectivity.

Designing a Module for High-Speed Optical Communication

For the 400G/200G/100G optical modules that are widely used in data communication and fiber-optic backbone infrastructures, MPS

What is Optical Link Module?

Explore the world of optical link modules, essential components in optical fiber communication. Learn about the different types of

The Difference Between Single/Dual Fiber and

Dual fiber modules use two separate fibers: one for transmitting (TX) and one for receiving

Module X60130A with 2 ports, one for Optical and one port for copper .

If you have 2x shelf and dual NIC switchless then you have no ports free. If you have 1x shelf and dual NIC then you

What Is An Optical Module?

An optical module converts electrical signals to light for fast, reliable data transfer in networks, essential for cloud

The Ultimate Guide to SFP Modules (2026): Types, Speeds

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM

ES5D21X02S00 (2-Port GE SFP/10GE SFP+ Rear Optical Interface

The ES5D21X02S00 provides two 10GE SFP+ optical ports for data access and line-rate switching. It can be installed in a card slot

XPO-LPO Optical Transceiver | Optical Interconnect | Amphenol

Amphenol's XPO (200G per lane) optical modules incorporate both LPO and LRO solutions, which adopt

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable

Cisco Digital CFP2-DCO Coherent Optical Module Data

Cisco offers a comprehensive range of pluggable optical modules in the Cisco ONS

What is Differences Between Switch Optical Ports and Ethernet Ports

Port types are limited to two: optical and Ethernet. Optical ports on switches typically accommodate optical modules for

2x2 Mechanical Optical Cross Switch – Optilab

The Optilab compact low noise 2x2 bidirectional optical cross switch module is a simple and reliable tool for engineering, laboratory,

Optical Transceivers | Coherent

Optical Transceivers Get the pluggable module performance you need from the manufacturer of choice for

What is SFP Port? Everything You Need to Know

What is an SFP port? The SFP port also refers to a Small Form-factor Pluggable port. It is a

The Ultimate Guide to SFP Modules (2026): Types,

SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module used to connect

Optical module

Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on

Understanding Optical Modules: Working Principles, Structures, and ...

Explore the working principles, structures, and performance metrics of optical modules, essential components of

SFP Optical Transceiver Products | Syrotech Networks

Syrotech Networks is market leader in manufacturing and supplier of sfp module, optical transceiver, sfp port, sfp optical

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