Multimode SFP optical module

AI Overview

SFP stands for Small Form-factor Pluggable, a compact, hot-pluggable transceiver used to connect network devices to fiber optic cables, including multimode fiber.Definition and FunctionAn SFP (Small Form-factor Pluggable) is a compact, hot-swappable optical transceiver module that allows network devices such as switches, routers, and media converters to transmit and receive data over fiber optic or copper cables . It converts electrical signals from the device into optical signals for transmission over fiber and vice versa, effectively acting as a “translator” between the device and the fiber network .Multimode SFP ModulesA multimode SFP (MMF SFP) is specifically designed to operate over multimode fiber, which has a larger core size (typically 50 or 62.5 µm) compared to single-mode fiber . These modules usually transmit light at 850 nm wavelengths and are optimized for short-distance communication, typically ranging from 100 meters to 550 meters depending on the fiber type and network speed . Multimode SFPs are commonly used in local area networks (LANs), data centers, and short-range interconnects due to their cost efficiency and ease of deployment .Key FeaturesHot-pluggable: Can be inserted or removed without powering down the device, minimizing downtime .Compact form factor: Smaller than older GBIC modules, allowing higher port density .Compatibility: Works with OM3/OM4/OM5 multimode fibers and supports standard protocols like Gigabit Ethernet .Short-range optimization: Ideal for distances under 550 meters, making them suitable for intra-building or campus networks .SummaryIn essence, an SFP in a multimode optical module is a small, pluggable transceiver that enables network devices to communicate over multimode fiber efficiently. It is widely used for short-distance, high-speed connections in enterprise and data center environments, providing flexibility, hot-swappability, and standardized connectivity .

Article Content

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

SFP Optical Transceiver Modules for Long Distance: A Complete

Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission. Compare LX, EX, ZX models and choose the right module for your

Differences Between Optical Modules SFP, SFP+, CFP, XFP, QSFP?

How to Choose SFP Transceivers? In addition to SFP, SFP+, SFP28, QSFP+, and QSFP28, you also need to consider the application. Different types of SFP transceivers depend on

How do You Connect Fiber Optic Cable to SFP?

Learn how to connect a fiber optic cable to an SFP module correctly. Follow our step-by-step guide, avoid common mistakes, and troubleshoot connection issues.

StarTech SFP28 Module SFP-25G-SR-S-C-ST: Modules

This fiber optic transceiver is the direct equivalent to Cisco® SFP-25G-SR-S for 25Gbps connectivity up to 100m (328ft) over LC-terminated Multimode Fiber (MMF) cable. The optical module has been

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

Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right transceiver for Cisco,

10G SFP+ Module Selection Guide for Short-Range Networks

10G optical networks have expanded beyond traditional data centers into enterprise campuses, security monitoring systems, edge computing environments, and industrial deployments.

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 wiring closets, Internet Service

SFP28 25Gbps Multimode Fiber Transceiver Module 100m LC

This fiber optic transceiver is the direct equivalent to Cisco® SFP-25G-SR-S for 25Gbps connectivity up to 100m (328ft) over LC-terminated Multimode Fiber (MMF) cable. The optical module has been

Top 10G SFP+ Fiber Modules for Enterprise Networks: A Strategic ...

Discover the top 10G SFP+ fiber modules for enterprise networks. Learn how to select the right multimode or single mode transceiver to optimize speed, distance, and performance across

Ubiquiti 10G Multi-Mode Optical Module • SFP+ • 10/1GbE • Single

Product information "Ubiquiti 10G Multi-Mode Optical Module • SFP+ • 10/1GbE • Single Pack • UACC-OM-MM-10G-D" SFP+-Transceiver, der 10G-Verbindungen bis zu 400 m über Multimode-Faser mit

Cisco 10GBASE SFP+ Modules Data Sheet

Cisco SFP-10G-SR module The Cisco 10GBASE-SR Module supports a link length of 26m on standard Fiber Distributed Data Interface (FDDI)-grade Multimode Fiber (MMF). Using 2000MHz*km MMF

Key Differences Between Singlemode and Multimode SFP Modules

MMF SFP transmits data over multimode optical fiber with a core size of 50 or 62.5 µm and a 125 µm cladding. Standard MMF SFP modules send signals at 850 nm and support short

StarTech 10 Pack Cisco GLC-SX-MM Compatible SFP Module

StarTech Cisco GLC-SX-MM Compatible SFP Module (10 Pack) - 1000BASE-SX - 1GbE Multimode Fiber MMF Optic Transceiver - 1GbE SFP - LC 550m - 850nm DDM Cisco IE3200, IE3300, ME1200

25G SFP28 Network Transceiver Module Multimode Fiber 100m LC

Upgrade your network performance with the StarTech SFP-25G-SR-S-M-ST transceiver module, designed for seamless integration and high-speed connections. This 25Gbps multimode fiber optical

4 Port 10/100/1000 RJ45 to Fiber Switch

Our ESW-2206 optical fiber switch has 2 Fiber Optic SFP Module ports and 4 X 10/100/1000 Base-TX copper RJ-45. Works Best with Fibertronics Cat6 6 or Cat

Bidirectional SFP Modules/Transceivers

They are compatible with standard SFP slots on fiber optic network switches and media converters. Our BiDi SFP modules come with a lifetime warranty and are available for various types of optical fiber,

Contact Us

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