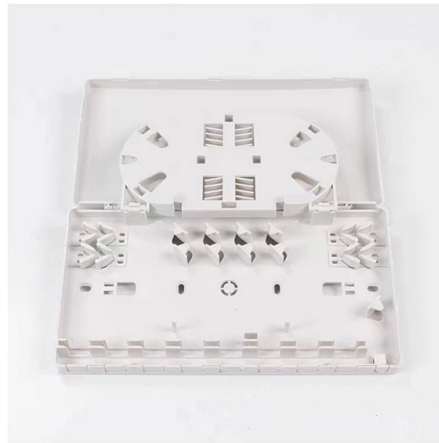


Gigabit Multimode Fiber Optic Module



AI Overview

Gigabit multimode fiber optic modules are used to transmit and receive 1 Gigabit per second data over short-distance multimode fiber networks, enabling high-speed connectivity in data centers, enterprise networks, and campus environments.

Overview Gigabit multimode fiber optic modules, often implemented as 1G SFP (Small Form-Factor Pluggable) transceivers, are designed to convert electrical signals from network devices into optical signals for transmission over multimode fiber (MMF) and then back into electrical signals at the receiving end. They typically operate at an 850 nm wavelength and are optimized for short-range communication, making them ideal for environments where distances are limited but high reliability and low latency are required.

Applications

- Data Centers:** These modules connect servers, switches, and storage devices, supporting high-speed internal data transfer over short distances, often within the same rack or between adjacent racks.
- Enterprise Networks:** Used in office buildings and campus networks to link switches and routers across floors or buildings, providing Gigabit Ethernet connectivity.
- Campus Environments:** Ideal for connecting multiple buildings within a campus where multimode fiber is deployed, leveraging the cost-effectiveness and ease of installation of MMF.

Technical Details

Standards: Most gigabit multimode SFPs follow the 1000BASE-SX standard, ensuring interoperability across different vendors.

Distance Limitations: Depending on the fiber type, distances vary: OM1 (62.5 μm core) supports up to ~220 meters. OM2 (50 μm core) supports up to ~550 meters. OM3/OM4 (laser-optimized 50 μm) can support 10 Gigabit Ethernet up to 300–550 meters.

Fiber Compatibility: These modules are designed for multimode fiber, which has a larger core diameter allowing multiple light modes to propagate, making them suitable for short-range, high-bandwidth applications.

Advantages

- Hot-swappable:** Can be replaced without powering down network equipment, minimizin...

Article Content

SFP-M Gigabit Fiber SFP Transceiver, Multi Mode 550M | Antaira

The SFP-M is a high performance and cost-effective module for serial optical data communication applications specified for multimode of 1.25 Gb/s. It operates on +3.3V power.

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

Cisco 40GBASE QSFP Modules Data Sheet

Cisco QSFP-40G-CSR4 Cisco 40GBASE-CSR4 QSFP Modules extend the reach of the IEEE 40GBASE-SR4 interface to 300 and 400 meters on laser-optimized OM3, and OM4/OM5

Gigabit SFP modules with fiber optic modes » buy

Multimode SFP modules offer a cost-effective solution for shorter links within buildings or rooms. The larger fiber core size allows multiple light modes to be

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Amazon : ipolex Gigabit Multi-Mode LC Fiber to

Seamless Conversion of LC Fiber to Copper - This fiber optic to ethernet media converter kit includes 2 pack of multimode 1000BASE-SX SFP modules

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

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

Gigabit Multimode SFP 1000Base-SX LC Fiber Module, 850nm

Widely support Gigabit Ethernet, Fiber Channel, Other Optical Links and other devices. [Easy to Use] Easy installation, plug and play, fully hot-pluggable with ESD protection.

Startech Dell EMC QSFP-40G-SR4 Compatible QSFP+ Module,

Buy Startech Dell EMC QSFP-40G-SR4 Compatible QSFP+ Module, 40GBASE-SR4, 40GbE Multimode Fiber MMF Optic Transceiver, 40GE Gigabit Ethernet QSFP+, MPO Connector, 150m, 850nm, DDM,

Cisco SFP Modules for Gigabit Ethernet Applications

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit Ethernet Applications.

SFP Transceiver

The G MMFXCVR 3.3V 2K SFP PLG is a Gigabit Ethernet multimode SFP transceiver that utilizes LC connectors, operates at a 1310nm wavelength, and

Gigabit Fiber SFP Optical Transceiver Module

Shop SFP, QSFP, and GBIC transceivers for Gigabit Ethernet over multimode and singlemode fiber. Hot-pluggable, scalable, and available in industrial and WDM

SFP Gigabit Fiber Module

Our 1000Base-SX LC multimode 850nm SFP gigabit fiber modules are compatible with any Cisco or MSA SFF-8472.

100 Gigabit Ethernet

The 40/100 Gigabit Ethernet standards encompass a number of different Ethernet physical layer (PHY) specifications. A networking device may support different PHY types by means of pluggable

Chelsio 40G short reach QSFP Optic Module SM40G-SR

Chelsio 40G short reach QSFP Optic Module Chelsio's SM40G-SR 40Gb/s 100m Multimode QSFP+ optical transceivers are designed and certified for use with Chelsio's 40-Gigabit Ethernet Unified Wire

Ubiquiti Network Transceiver Module Fiber Optic 1250 Mbit/s | UACC

Transform your network with the Ubiquiti UACC-OM-MM-1G-D Gigabit Multimode Fibre SFP Module, offering 1.25 Gbps speeds over 550m. Features duplex LC connector and MM fibre support.

100GBASE QSFP-100G Modules Data Sheet

The Cisco 100GBASE-SR4-S QSFP Module supports link lengths of up to 70m over OM3 and 100m over OM4 Multimode Fiber with MPO

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Discover the best fiber optic media converters in 2026. Our experts tested 10 top models for reliability, performance, and value. Complete buying

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

StarTech Cisco SFP-10G-SR-S Compatible SFP+ Module

StarTech Cisco SFP-10G-SR-S Compatible SFP+ Module - 10GBASE-SR - 10GbE Multimode Fiber MMF Optic Transceiver - 10GE Gigabit Ethernet SFP+ - LC 300m - 850nm - DDM Cisco Firepower,

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