# 10 Gigabit Fiber Optic Module Multimode



## Overview

SFP+ transceiver that supports 10G connections up to 400 m using multi-mode fiber with a duplex LC UPC connector.

## Key Takeaways

10 Gigabit multimode fiber optic SFP+ modules provide high-speed, short-reach connectivity for data centers and enterprise networks, typically supporting distances up to 300–400 meters over OM3/OM4 fiber. Overview10 Gigabit multimode SFP+ transceivers are compact, hot-pluggable optical modules designed for 10-Gigabit Ethernet (10GbE) connections over multimode fiber (MMF) networks. They operate at a wavelength of 850 nm using VCSEL laser technology, which ensures high-speed, low-latency, and cost-efficient data transmission.

These modules are widely used in data centers, enterprise networks, and storage area networks (SANs) for short-range links between switches, servers, and storage devices. Fiber Types and Transmission DistancesOM3 fiber: Supports up to 300 meters at 10GbE speeds. OM4 fiber: Extends reach up to 400 meters, providing higher bandwidth and better performance for dense network environments.

Connectors: Typically use duplex LC connectors, compatible with most multimode fiber systems. Key FeaturesHot-pluggable: Can be installed or replaced without powering down the system. High density: Small SFP+ form factor allows for maximum port density in switches and servers.

Cost-effective: Multimode optics are generally more economical than single-mode optics for short-distance applications. Low power consumption: Optimized for energy efficiency in high-density deployments.

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### Use Cases

Data centers: Short-range connections between racks or within the same room. Enterprise networks: Building backbone links and aggregation layers.

SA

Ns: High-speed storage-to-server connections requiring low latency and high throughput. Variants10GBASE-SR: Standard short-reach multimode module for OM3/OM4 fiber, ideal for distances up to 300–400 meters. 10GBASE-LRM: Supports longer multimode distances (up to 220 meters) at 1310 nm, suitable for legacy fiber installations.

In summary, 10 Gigabit multimode SFP+ modules are essential for high-speed, short-distance networking, offering reliable performance, easy deployment, and compatibility with modern data center and enterprise fiber infrastructures.

## Article Content

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport

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

10G Multi-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 400 m using multi-mode fiber with a duplex LC UPC connector.

10 Gigabit Multimode SFP+ Fiber Optic Transceivers | High-Speed

These SFP+ modules are designed for 10 Gigabit Ethernet and are equipped with LC duplex connectors, ensuring compatibility with most multimode fiber optic systems.

SFP Optical Transceiver | SFP Optical Module | Perle

Multimode and single-mode fiber Gigabit Ethernet, Fast Ethernet, Fiber channel, ATM/SONET, SDH Hot-pluggable with durable metal enclosure Can be installed

The best affordable Transceivers under 50 CHF in 2026 on digitec

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The Ubiquiti SFP+ transceiver is a high-performance multimode duplex fiber optic module designed for data transmission at speeds of up to 10 Gbit/s. With an LC connector, this module allows for a range

Copper vs Fiber Cabling Explained | ComputingForGeeks

Compare copper vs fiber cabling: UTP categories and the 100 m limit, multimode vs single-mode fiber, straight-through vs crossover, and connectors.

How to distinguish whether an optical fiber module is single-mode or ...

Correctly distinguishing single-mode and multi-mode optical modules is critical for matching fiber patch cords,ensuring transmission stability,and avoiding network failures.

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SFP & SFP+ Modules for Fiber Optic Networks | WLAN-Shop24

Bring fiber optic speed to your network! With SFP (Small Form-factor Pluggable) and SFP+ modules, you can equip your switches and routers with the appropriate connections for fiber optic cables.

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Single- & Multimode SFP modules offer the best of both worlds, allowing enterprises to take advantage of both fiber modes. With these modules, enterprises can optimize their networks in mixed

Gigabit single-mode single-core fiber optic module

In addition, its transmission rate in optical fiber storage system (SAN) is 2Gbps, 4Gbps and 8Gbps; 3. Transmission distance Optical signals are transmitted directly without repeater

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StarTech Cisco Meraki MA-SFP-10GB-SR Compatible SFP+ Module ...

StarTech Cisco Meraki MA-SFP-10GB-SR Compatible SFP+ Module - 10GBASE-SR - 10GbE MMF Optic Transceiver - 10GE Gigabit Ethernet - LC 300m 850nm Cisco Meraki MS225, MX400, MS250

10Gtek 10GBase-SR SFP+ LC Transceiver, 10G 850nm

Widely used in network switch, server, or NIC with SFP+ to a 10 Gigabit fiber channel network with multimode LC for Network Attached Storage (NAS),

SR Cisco Explained: SFP+ 10G Multimode Optics Guide

Understand SR Cisco SFP+ modules for 10G multimode fiber links, including specifications, transmission distance, compatibility, and data center use cases.

10 Gigabit Fiber SFP+ Optical Transceiver Module

The Intellinet Network Solutions 10 Gigabit Fiber SFP+ Optical Transceiver Module (model 507462) is fully hot-pluggable, and that allows you to install the module

Related Video Reference

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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