

Multimode Fiber Network Module



Summary of Content

Multimode SFP modules are short-distance, cost-efficient transceivers designed for high-speed data transmission over multimode fiber (MMF) with core sizes of 50 μm , typically operating at 850 nm.

Overview

Multimode SFP (MMF SFP) modules are pluggable transceivers that convert electrical signals from network devices into optical signals for transmission over multimode fiber and vice versa . They are widely used in data centers, enterprise LANs, and industrial networks where short- to medium-range connectivity is required . MMF SFPs are optimized for distances generally up to 550 meters, depending on the fiber type and data rate .

Fiber Types and Performance

Multimode fibers come in several grades:

- OM1: Supports up to 1 Gbit/s for distances up to 550 meters.
- OM2: Similar to OM1, optimized for 1 Gbit/s over 550 meters.
- OM3: Supports 10 Gbit/s up to 300 meters.
- OM4: Supports 10 Gbit/s up to 400 meters . MMF SFP modules typically operate at 850 nm wavelength using LEDs or VCSEL lasers, which are suitable for short-range, high-bandwidth applications . They are not suitable for long-distance transmission due to modal dispersion, which can degrade signal quality over longer runs .

Key Considerations

Article Content

Single-mode vs Multimode SFP 2026: Fiber Types and distances

A guide to single-mode vs multimode SFP modules. Covers fiber types, wavelengths, distances, BiDi, CWDM/DWDM,

Selecting the Right SFP Module for Single-Mode and Multimode Fiber

Learn how to select the right SFP module for single-mode and multimode fiber by understanding wavelength,

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber Guide

Compare OM1, OM2, OM3, OM4, and OM5 multimode fiber specs, distances, bandwidth, and applications. Essential

Multimode SFP+ und andere Module – online bei | ShopFiber24

Entdecken Sie unsere vielfältige Auswahl an Multimode Transceivermodulen, die speziell auf die Anforderungen professioneller

Multimode SFP Guide: How to Choose for 100G Network

Multimode SFP modules are designed to operate with specific multimode fiber grades, including OM3, OM4, and OM5. Each fiber

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

Multimode SFP+: 10GBASE-SR Specs, Fiber Types and Use Cases

In the following sections, we will explore the technical specifications of 10GBASE-SR SFP+ modules, supported fiber

Multimode transceiver modules buy online

Discover our diverse selection of multimode transceiver modules, which are specially tailored to the requirements of professional

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5

Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2 fiber, OM3 fiber,

Single-Mode vs Multimode Fiber and 1300nm/1310nm SFP

Learn the differences between single-mode (SMF) and multimode fiber (MMF), understand 1300nm vs 1310nm SFP transceivers,

Contact Us

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