

Parameters of Multimode 10 Gigabit Optical Module



AI Overview

Multimode 10G SFP+ optical modules typically operate at 850 nm, support duplex LC connectors, and provide 10Gbps transmission over OM3/OM4 fiber up to 300–400 meters. Key Specifications

Form Factor: SFP+ (Enhanced Small Form-factor Pluggable), compact and hot-swappable for easy installation and replacement without powering down the host device .

Data Rate: Supports 10 Gigabit Ethernet (10GbE) with nominal signaling at 10.3125 Gbps for SR applications .

Wavelength: Operates at 850 nm, optimized for short-reach multimode fiber links .

Fiber Type: Designed for multimode fiber (MMF), typically OM3 or OM4, which allows extended reach compared to standard MMF .

Transmission Distance: Up to 300 meters on OM3 fiber (2000 MHz·km) Up to 400 meters on OM4 fiber (4700 MHz·km) Shorter distances (≈ 26 meters) on standard FDDI-grade MMF

Connector Type: Duplex LC UPC connector, ensuring reliable bidirectional communication .

Power and Interface: Low power consumption, 20-contact edge electrical interface, AC-coupled data lines, and compatible with standard SFP+ ports on switches and servers .

Applications: Ideal for data centers, enterprise networks, and high-density switch environments, providing short-range, high-speed connectivity between switches, servers, and storage devices .

Additional Features: Hot-pluggable design for easy maintenance Low latency and cost-effective deployment Compatible with digital optical monitoring in some modules for diagnostics

These parameters make multimode 10G SFP+ modules a widely deployed solution for short-distance, high-speed optical links where reliability, low latency, and cost efficiency are critical.

Article Content

Cisco-kompatible optische Module - Katalog - Offizielle technische ...

Alle Module im Cisco Compatible Optical Modules Catalog basieren auf branchenführender Lasertechnologie, darunter ungekühlte DFB- (Distributed Feedback) und VCSEL-Optionen (Vertical

SFP+ Transceiver

SFP+ Transceiver for Connecting to Your Network Switch or Server This SFP+ transceiver allows you to connect a multimode fiber optic cable to a 10 Gbps network router, server or switch. It transmits data

10G SFP+ Multi-Mode Fiber Module - AVPro Global

10G SFP+ Optical Transceiver Modules connect 10G TCVRs and the 10G CBOX with 10G network switches and facilitate stacking MXNET 1G SW24/48 network

Cisco 10GBASE SFP Modules Data Sheet

Product Overview 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

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Optic Modules Datasheet

datasheet is intended to guide the user through the various options available when choosing an optic module for a given platform depending on the architecture. The following table lists the different

10 Gigabit Fiber SFP+ Optical Transceiver Module

This gives the user the ability to monitor parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage, in real time.

Cisco 10GBASE SFP+ Modules Data Sheet

A broad range of industry-compliant SFP+ modules for 10 Gigabit Ethernet deployments in diverse networking environments Product overview The

H!Fiber 10G Multimode SFP+ LC Module, 10GBase-SR Fiber

About this item 10GBase-SR SFP+: 10 Gigabit Ethernet Multimode SFP+ Module, 10 Gb/s, 850nm wavelength, Duplex Dual LC, MMF, operates on multi-mode (OM3/OM4) LC/UPC fiber cable spans of up to 300m (984 Ft) in length; 2 Pack Wide Compatible: Perfect for Cisco SFP-10G-SR, Meraki MA-SFP-10GB-SR,

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

Multimode optical modules are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode fibers because of modal dispersion, but their costs are also lower.

UniFi 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.

10G SFP+ Multimode Optic 850nm – Broadata

The module is hot-swappable, allowing for quick and easy installation or replacement without interrupting network operations. Its low power consumption,

A Simple Guide to SFP-10G-SR and Its Practical Uses

When it comes to cost-effective 10 Gigabit Ethernet over short to medium distances, the SFP-10G-SR optical transceiver remains a cornerstone

Ubiquiti 10G Multi-Mode SFP+ Optical Module 20-Pack

This device is specifically engineered to facilitate data transmission at speeds of up to 10 Gbps, supporting both 10 Gigabit Ethernet and 1 Gigabit Ethernet, making it

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.

Gigabit Ethernet

Gigabit Ethernet was the next iteration, increasing the speed to 1000 Mbit/s. The initial standard for Gigabit Ethernet was produced by the IEEE in June 1998 as

Optical Module Technology Roadmap | 800G to 3.2T Evolution

Explore the future of optical module technology from 800G to 1.6T, 3.2T and beyond. Comprehensive roadmap covering silicon photonics, CPO, coherent datacom, and AI-optimized

SFP Modules: Types, Selection Guide & Applications

An SFP module is a compact, hot-swappable optical transceiver designed to facilitate data transmission between network devices such as switches, routers, servers, and media converters.

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

The 10 Gigabit Multimode SFP+ Transceivers offer high-speed, reliable fiber optic connections for a wide range of network devices and applications. These SFP+ modules are designed for 10 Gigabit

Cisco-Compatible SFP-10G-SR SFP+ Transceiver

MODEL NUMBER: N286-10G-SR-C Connects a multimode Gigabit Ethernet fiber optic network cable to a Cisco switch or server's SFP+ port.

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

As network speeds continue to increase across data centers and enterprise infrastructures, 10-Gigabit Ethernet (10GbE) has become a standard

10G Multi-Mode/300M Fiber SFP+ Module

The 2A-141G 10G Multi-Mode/300M Fiber SFP+ Module is designed for use in 10GbE Ethernet environment that allows you to connect a multi-mode Gigabit

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

Contact Us

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