

Multimode fiber optic 10 Gigabit optical module



Article Overview

Multimode 10 Gigabit modules, such as 10GBASE-SR SFP+ transceivers, enable high-speed, short-range optical connectivity in data centers and enterprise networks using multimode fiber.

Overview and Function

Fiber optic multimode 10 Gigabit modules, commonly implemented as SFP+ (Small Form-factor Pluggable Plus) transceivers, are compact, hot-swappable devices designed to transmit 10Gbps data over multimode fiber (MMF). They operate at an 850 nm wavelength using VCSEL laser technology, optimized for short-reach applications where high bandwidth, low latency, and cost efficiency are critical. These modules are widely used to connect servers, switches, and storage devices within the same facility, particularly in data centers and high-density network environments.

Fiber Types and Transmission Distances

Multimode 10G modules are typically deployed with OM3 or OM4 fiber, which support transmission distances of up to 300 meters on OM3 and 400 meters on OM4, depending on fiber quality and network design. Older fiber types like OM1 or OM2 offer shorter distances and are less suitable for modern 10GbE deployments. The LC duplex connector is the standard interface, ensuring compatibility across devices.

Advantages and Applications

Article Content

10gb multimode fiber | Newegg

10G SFP+ SR Multimode Fiber Optical Module Dual LC Transceiver Wavelength 850nm Hot-Swappable 300m 10Gbps Fiber Network

10 Gigabit Fiber SFP+ Optical Transceiver Module

This 10 Gigabit Fiber SFP+ Optical Transceiver Module supports standard digital diagnostics monitoring

10G SFP+ SR Networking Transceiver, 10Gbase-SR Optical Module

Amazon : 10G SFP+ SR Networking Transceiver, 10Gbase-SR Optical Module, 10gbs Multimode 850nm 10GE Gigabit Ethernet

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 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

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

Introduction of 10G SFP+ Optical Modules

Within fiber SFP+ there are several variations like 10GBASE-SR for short distances on multimode fiber and

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

With a transmission distance of up to 300 meters at 850 nm, these transceivers are ideal for medium-range connections, providing

10 Gigabit SFP+ Fiber Optic Transceivers | High-Speed & Reliable

Our 10 Gigabit multimode SFP+ transceivers provide high-speed data transmission over short to medium distances, typically up to 2

SFP+ Optical Transceiver Modules (10G-SR/LR)

Amphenol SFP Optical Modules • SFP+ Optical Modules from Cables on Demand are Now Available in

10 Gigabit Fiber SFP+ Optical Transceiver Module

10 Gigabit Connectivity Whether you need a fast connection to your 10 GbE equipped server or NAS

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

□□ Key Technical Specifications of 10GBASE-SR SFP+ Modules 10GBASE-SR SFP+ modules are designed to deliver

Cisco 10GBASE SFP+ Modules Data Sheet

A broad range of industry-compliant SFP+ modules for 10 Gigabit Ethernet deployments in

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit

10G SFP+ Multimode Optic 850nm – Broaddata Communications Inc.

10G SFP+ Multimode Optic 850nm Cost-effective solution for high-speed 10 Gigabit Ethernet transmission over multimode fiber

Ubiquiti 10Gbps Multi-Mode Optical Module 2-Pack for SFP+ Fiber ...

The 10 Gbps Multi-Mode Optical Module, model UACC-OM-MM-10G-D-2, from Ubiquiti is a high-performance, dual-rate optical

10-Gigabit Multimode Cables (OM3) for Sale | Cables on Demand

10-Gigabit Multimode 50-Micron (50/125) Fiber Optic Patch Cables (Aqua OM3) by Amphenol Now In-Stock at Cables on Demand.

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco 10GBASE-LRM Module supports link lengths of 220m on standard Fiber Distributed Data Interface (FDDI) grade

XG-SFP-SR-MM850 10GBASE-SR SFP+ 850-nm 300-m DOM

The XG-SFP-SR-MM850 is aligned to IEEE 10GBASE-SR optical specifications and supports a link length of up to 300 m (984.25 ft.,

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

10G SFP+ Optical Transceiver Modules connect 10G TCVRs and the 10G CBOX with 10G network

SFP Module 10 Gig SR LC 300k 850nm at Cables N More

Get the most out of your network equipment with these Cisco Equivalent SFP Fiber Modules from Networx SFP Module - Fiber Optic,

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

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

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

About this item 10GBase-SR SFP+: 10 Gigabit Ethernet Multimode SFP+ Module, 10 Gb/s, 850nm wavelength, Duplex Dual LC,

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

The 2A-141G provides 10GbE connectivity at distances up to 300 meters. As a hotpluggable module with a

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://e-motional.eu>

Email: info@e-motional.eu

Phone: +49-30-657-8924

Address: Friedrichstraße 101, 10117 Berlin, Germany

This document is for informational purposes only. Specifications subject to change without notice.

