

Mmd optical module



AI Overview

An MMD optical module is a Small Form-Factor Pluggable (SFP) transceiver with Digital Optical Monitoring (DOM) capabilities for real-time monitoring of optical performance.

Overview

An MMD optical module is a type of SFP transceiver designed for fiber optic communication, typically used in enterprise LANs, campus networks, and data centers. The "MMD" designation indicates that the module supports Digital Optical Monitoring (DOM), which allows network engineers to monitor key operational parameters such as temperature, voltage, and transmit/receive optical power in real time .

Functionality

MMD modules operate over multimode fiber (MMF) or single-mode fiber (SMF), depending on the model. For example, the GLC-SX-MMD is a 1Gbps module that works over MMF using an 850nm wavelength, supporting transmission distances up to 550 meters . The module converts electrical signals from network devices into optical signals for transmission through fiber and converts incoming optical signals back into electrical signals at the receiving end .

Key Features

- Digital Optical Monitoring (DOM): Provides real-time diagnostics of optical power,...

Article Content

Jul 23, 2026

Gigabit Fiber SFP

Cisco GLC-SX-MMD Compatible SFP Module - 1000BASE-SX - 1GbE Multimode Fiber MMF Optic Transceiver - 1GE Gigabit

Dec 24, 2025

GLC-SX-MM and GLC-SX-MMD

Dear sir/ma, what is the significant different between GLC-SX-MM and GLC-SX-MMD i know these are transceivers

Jul 14, 2026

Cisco GLC-SX-MMD Datasheet

Optical and copper models can be used on a wide variety of Cisco products and intermixed in combinations of 1000BASE-T,

Apr 24, 2026

Designing a Module for High-Speed Optical Communication

The ultimate goal for all-optical connectivity with an ultra-high F5G bandwidth is to increase transmission rates. Optical modules —

Jun 06, 2026

Cisco GLC-SX-MMD SFP Optical Transceiver Module

1. The Cisco GLC-SX-MMD SFP Optical Transceiver Module is a high-performance module designed for use in Cisco networking

Nov 10, 2025

1G SFP Transceivers | Mini-GBIC SFP Modules

FS gigabit ethernet transceiver solutions provide fibre or copper options including 1000BASE-SX,

Jul 25, 2025

GLC-SX-MMD 1000BASE-SX SFP Transceiver Module MMF 850nm

The “MMD” in GLC-SX-MMD stands for Digital Optical Monitoring (DOM), an advanced feature that provides real-time

May 22, 2026

Difference between Cisco SFP Module GLC-SX-MM and GLC-SX-MMD

These small, modular optical interface transceivers offer a convenient and cost effective solution for the adoption of Gigabit Ethernet

Feb 21, 2026

Cisco SFP Modules for Gigabit Ethernet Applications

This data sheet describes the benefits, specifications, and ordering information for the

Sep 24, 2025

Cisco GLC-SX-MMD Datasheet

Compatibility: The Cisco GLC-SX-MMD module is compatible with a wide range of Cisco networking equipment, ensuring seamless

Mar 21, 2026

Cisco GLC-SX-MMD Transceiver Module | Specs & Details

The GLC-SX-MMD transceiver module is compliant with the SFP Multi-Source Agreement (MSA), which defines the mechanical,

May 20, 2026

GLC-SX-MMD, Cisco SFP Transceiver, 1000BASE

The GLC-SX-MMD provides short-reach, 1 Gbps optical links between access switches and aggregation

Nov 24, 2025

Designing a Module for High-Speed Optical Communication

This article explores MPS optical module solutions to meet the design requirements of high-speed optical communication as well as

Nov 12, 2025

Cisco GLC-SX-MMD Compatible 1000BASE-SX SFP

Featuring a built-in Semtec chip and reliable VCSEL laser, the SFP module delivers low power

Apr 03, 2026

Cisco GLC-SX-MMD vs GLC-LH-SMD: What's the Difference?

Compare Cisco GLC-SX-MMD vs GLC-LH-SMD SFP modules. Learn key differences in distance, fiber type, and

Feb 04, 2026

Cisco GLC-SX-MMD SFP Module

However, due to the variety and type of Cisco optical modules, we still easily confuse different types of optical modules. In this article,

May 23, 2026

Cisco SFP Modules for Gigabit Ethernet Applications

Product Overview The industry-standard Cisco® Small Form-Factor Pluggable (SFP) Gigabit Interface Converter (Figure 1) links

Oct 14, 2025

GLC-SX-MMD

Model Number: GLC-SX-MMD Description: Cisco 1000BASE-SX SFP transceiver module for MMF, 850

Apr 13, 2026

Cisco GLC-SX-MMD Compatible 1000BASE-SX

Both are Cisco 1000BASE-SX SFP modules for 850nm multimode fiber at 550m, so they are optically interoperable on the same link.

Oct 16, 2025

StarTech GLCSXMMDDTT Cisco GLC-SX-MMD Compatible SFP Module

The GLCSXMMDDTT is a TAA compliant Cisco GLC-SX-MMD compatible fiber transceiver module that has been designed,

Aug 25, 2025

GLC-T vs GLC-SX-MM vs GLC-SX-MMD, What is the Difference?

With Digital Optical Monitoring (DOM) function, users can monitor the transceiver module's parameters in real-time

Jul 17, 2026

Cisco GLC-SX-MMD Datasheet

GLC-SX-MMD The industry-standard Cisco Small Form-Factor Pluggable (SFP) Gigabit Interface Converter links your switches and

Feb 18, 2026

Cisco Transceiver Modules

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

Jan 26, 2026

Cisco DOM – Digital Optical Monitoring and does cleaning your fiber ...

Cisco has intercorperated monitoring of optical interfaces a while back, but what is relatively new is that the DOM

Contact Us

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