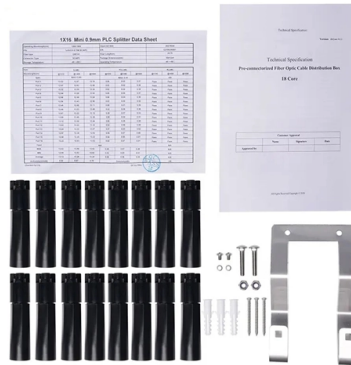


Dual-mode SFF optical module model



AI Overview

Dual-mode SFF optical modules are compact, hot-pluggable transceivers supporting dual-fiber bidirectional communication with speeds from 155 Mbps to 2.5 Gbps, operating over multimode or single-mode fibers with LC connectors.

Key Electrical and Optical Characteristics

- **Transmission Speeds:** Modules support 155 Mbps, 1.25 Gbps, and 2.5 Gbps, suitable for Fast Ethernet, ATM, and FDDI PMD standards .
- **Fiber Type:** Dual-mode SFF modules can operate over multimode fibers (MMF) for short distances (300 m to 2 km) and single-mode fibers (SMF) for longer distances (up to 160 km depending on model), .
- **Connector Type:** Dual-fiber modules typically use LC connectors, while single-fiber variants may use SC connectors .
- **Signal Levels:** Differential CML input/output levels are standard, with transmitter input amplitude ranging from 200–2000 mVpp and receiver output amplitude from 300–1200 mVpp, with impedance of 90–110 ohms .
- **Optical Performance:** Extinction ratio ≥ 8.2 dB, transmit cutoff optical power ≤ -40 dBm, and receive sensitivity from -19 dBm to -34 dBm depending on the model .

Power and Environmental Specifications

- **Supply Voltage:** Operates from a single +3.3 V power supply .
- **Power Consumption:** Varies by module type; designers should consider maximum rated power for thermal management .

Article Content

12-Port Gigabit Fiber Metro Ethernet Switch

The DGS-1210ME Series Metro Ethernet Switches feature a variety of port configurations, including 10/100/1000BASE-T RJ-45 ports,

10GE SFP+ Optical Modules

CloudEngine 12800 and 12800E Series Switches Hardware Description This document provides an overall description of the

WDM SFF Fiber Optic Transceiver Module Manufacturer & Supplier

SOPTO offers top quality SFF transceivers, including single fiber and dual fiber SFF with SC connector. Hundreds of optical

Syrotech 20KM 1.25G 1310 Single Mode Single Fiber SFP Module

Syrotech 20KM 1.25G 1310 Single Mode Single Fiber SFP Module - Pair : Amazon : Fashion Dual data-rate of

Cisco SFP GLC Module Datasheet

OVERVIEW Cisco SFPs can meet Cisco users' different needs, GLC-SX-MMD, the 1000BASE-SX SFP, can support up to 1km over

Optical Transceivers Datasheets

Browse Smartoptics optical transceivers with flexible search and filtering options across a range of bit rates, form factors, media

SFP Module Types: Single-Mode vs Multimode SFP

Single-mode and multimode SFP are two SFP module types that will work on different fiber types. This post focuses

1.25G SFP Module Transceiver, 1000Base-LX, 1310nm SMF, Dual LC

1.25G SFP MODULE- 1.25Gbps SFP Optical Transceiver, Dual LC single-mode fiber, 1310nm, up to 20km super long distance

24-Port Layer 3 Stackable 10 Gigabit Fiber Managed Switch

The DXS-3400 Series switches feature a modular fan and power supply design for a high availability architecture. The hot-swappable

How to Choose SFP Module | FIBEYE

Price Single-mode modules are typically more expensive than multi-mode modules because they use more components and more

Cisco Transceiver Modules

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

What Is A Single-Fiber BiDi Transceiver?--ETU-LINK

When planning a fiber optic network, one key decision is choosing between single-fiber (BiDi) and dual-fiber optical transceivers. This

Optical Data SFP Modules

Both dual fiber transceivers and single fiber Bi-Directional (BiDi) round out the flexible offering. The

Syrotech 10Gig 10G BIDI SFP Module

Product Summary: Syrotech 10Gig 10G BIDI SFP Module for 80KM Single Model Single Fiber - Pair (2 pcs) Very low EMI and

The Difference Between Single/Dual Fiber and Single/Multi-Mode

Whether you're designing a short-range data center network or a long-distance metro backbone, understanding the

HK-SFP-1.25G-850-DF-MM

This advanced vision model maximizes clarity for key objects while compressing redundant background data. See Clearer

Understanding SFF Transceivers in Modern Networking

In the vast ecosystem of fiber optic transceivers, pluggable modules like SFP, QSFP, and OSFP get most of the

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,

SFF 2x5 single/dual fiber flexible output digital optical transceiver ...

All modules in this series utilize the SFF2x5 package, operate from a single 3.3V power supply, and utilize CML signal input/output

(SFF) Optical Transceivers

2x5 SFF Dual LC Package Description OptixCom's 2x5 Small Form Factor (SFF) transceiver provides a low cost and compact

Optical Module SFP

Multi-mode SFP module with dual fiber, Tx/Rx in the different optical fibers Using same wavelength in different fibers

How to Tell if My SFP is Single-Mode or Multimode?

Discover how to identify if your SFP (Small Form-factor Pluggable) module is single-mode or multimode. Look for SM

MikroTik · SFP/QSFP

A pair of 1G/2.5G BiDi SFP modules designed for reliable single-mode connectivity while using only one fiber strand – up to 20 km.

Understanding Single-mode and Multi-mode SFP Optical Modules

As SFP single-mode optical modules and SFP multi-mode optical modules are incompatible. If you mix SFP single-mode optical

The Ultimate Guide to SFP Modules (2026): Types,

Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics,

SFP Optical Transceiver | SFP Optical Module | Perle

Perle Protocol and Rate-transparent Media Converters provide conversion between different wavelengths, multimode and single

SFP Transceivers Small Form-Factor Pluggable (SFP) Transceivers

Many SEL products make use of small form-factor pluggable (SFP) transceivers for fiber optic communication. See the range of SFP

Understanding Fiber Optics – Your Quick Guide to SFP Transceivers

Understanding Fiber Optics – Your Quick Guide to SFP Transceivers What is an SFP Transceiver? SFP (small form-factor

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