

# Gigabit Single-Mode Optical Module Models



## Article Overview

Gigabit single-mode optical modules are primarily categorized by fiber configuration, wavelength, and transmission distance, including single-fiber BiDi and dual-fiber SFPs for long-distance network connectivity.

### Fiber Configuration

#### 1. Dual-Fiber SFP Modules

- Use two fibers: one for transmitting and one for receiving.
- Typically have duplex LC interfaces.
- Compatible with single-mode fiber (SMF) for long-distance links.
- Transmission distances range from 10 km to 40 km, depending on the module type and wavelength ( ).
- Common standards include 1000BASE-LX/LH for 10 km and 1000BASE-ZX for 40 km ( ).

#### 2. Single-Fiber BiDi (Bidirectional) SFP Modules

- Use one fiber for both transmitting and receiving by employing different wavelengths for each direction.
- Interface types are usually LC or SC.
- Transmission distances can reach up to 160 km with OS2 single-mode fiber ( ).
- Ideal for scenarios where fiber availability is limited or cost reduction is needed.

### Wavelength and Standards...

## Article Content

1G SFP LX 1310nm 20km Single mode Transceiver

Optimal Performance and Quality for 1G Networks Featuring a built-in Semtec chip and reliable FP laser /

H!Fiber 1.25G Single Mode SFP LC Module, 1000Base-LX/LH Fiber

About this item 1000Base-LX/LH SFP: Gigabit Single Mode SFP Module support 1.25 Gb/s data rates, 1310nm wavelength, SMF;

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

Ultimate Guide to 1G SFP Module Selection

Learn how to choose the right 1G SFP module for your network. Our guide covers compatibility, distance, fiber type, cost, and vendor

Gigabit SFP Module: A Complete Guide to 1G SFP Transceivers

Learn what a gigabit SFP module is, how it works, main types, key specifications, and common use cases to choose the right 1G

SFP modules - transceivers for 1/2/4G fibre channel

With support for Fast Ethernet, Gigabit Ethernet, Fibre Channel and legacy protocols such as SDH/SONET

1000Base-LX SFP Module

MSA Uncoded SFP Module - 1000BASE-LX - 1GbE Single Mode Fiber (SMF) Optic Transceiver - 1GE Gigabit Ethernet SFP - LC

Cisco 10GBASE SFP+ Modules Data Sheet

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

1G SFP Optical Transceiver Modules | Solid Optics

1G SFP optical transceiver modules for multi-mode and single-mode in distances ranging from 300 meters up to 80km with a limited

Gigabit SFP modules with fiber optic modes » buy online now

Our SFP modules support various fiber modes, including singlemode and multimode. Depending on your requirements, you need to

U®Fiber Modules and FiberCable Datasheet

Overview Ubiquiti Networks offers a variety of U® Fiber modules to suit your fiber connectivity applications. Two multi-mode models

The Ultimate Guide to 1G SFP Modules

Opt for single-mode 1G SFP modules to ensure reliable video data transmission over extended distances. Wireless

MikroTik · S+85DLC03D

S+85DLC03D is a 10G SFP+ transceiver with a LC connector, 850nm, for up to 300 meter Multi Mode fiber connections Units are

Cisco SFP Modules for Gigabit Ethernet Applications

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

1G Bidirectional Single-Mode Optical Module

SFP transceiver that supports 1G connections up to 3 km using single-mode fiber with a simplex LC UPC

Optic Modules Datasheet

Data Sheet datasheet is intended to guide the user through the various options available when choosing an optic module for a given

[Product Hub] Single Mode SFP Transceiver | Optcore

High-performance single mode SFP transceivers for long-distance networking applications. Find the perfect SFP module for your

Optic Modules Datasheet

4 Optic Modules Data Sheet ... SFP (form factor) = small form-factor pluggable transceiver SMF (media) = single-mode fiber-optic

1G SFP Transceivers | Mini-GBIC SFP Modules

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

## Contact Us

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