

Gigabit Single-Mode Optical Interface Module Parameters



Overview

The Cisco SFP-1G-LH optical module features a high-density duplex LC interface suitable for multimode and single mode fiber optics. The hot-swappable input/output device plugs into a Gigabit Ethernet port or slot. Center wavelength 1) 850nm (MM, multi-mode, low cost, but short transmission distance, usually only 500M); 2) 1310nm (SM, single mode, large loss during transmission, small dispersion, generally used for transmission). A gigabit SFP module is a hot-pluggable transceiver designed to deliver 1Gbps Ethernet connectivity over fiber or copper, and it remains one of the most widely deployed networking components in enterprise, campus, and industrial networks today. Despite the rapid adoption of 10G and higher-speed. At their core, 1G SFP modules are small optical or electrical transceivers that conform to 1000BASE Ethernet standards. Their function is to change electrical signals coming from switches or routers to optical signals, and vice versa, depending on whether they are being used with fiber or copper. SFP-1G-LH (formerly named GLC-LH-SM) is the Cisco 1000Base LX/LH SFP transceiver module, which is one of the most commonly used SFP modules. Its wireless portfolio is used across various devices and things. With a single net physical hu.

Article Content

Sep 02, 2025

Arista QSFP-100G-LR4-Arista | 100G QSFP28 Transceiver, Single-Mode ...

Q: Does this module support digital diagnostics monitoring? A: Yes, the QSFP-100G-LR4 includes DOM/DDM (Digital Optical Monitoring/Digital Diagnostics Monitoring) functionality, allowing real-time

May 01, 2026

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 for your network.

Dec 23, 2025

Cisco SFP and SFP+ Transceiver Module Installation

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These

Oct 18, 2025

The Ultimate Guide to 1G SFP Modules

Opt for single-mode 1G SFP modules to ensure reliable video data transmission over extended distances. Wireless Access Points and Routers: Multi

Mar 17, 2026

Cisco SFP Modules for Gigabit Ethernet Applications

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

Feb 10, 2026

Interface and Hardware Components Configuration

To configure a physical interface (port), specify the interface type, stack member number (only stacking-capable switches), module number, and

Jan 24, 2026

SFP-1G Series

The SFP-1G Series 1-port Gigabit Ethernet SFP modules are available as optional accessories for a wide range of Moxa Ethernet switches. Note: When connecting the SFP-LHX, ZX, EZX, or EZX-120,

Aug 18, 2025

What is SFP Module and How to Choose it

Ethernet SFP Module: What Is It? Ethernet SFP module, known for its compact, small form-factor pluggable design, also referred to as a mini-GBIC

Apr 06, 2026

Industrial Gigabit Fiber SFP Optical Transceiver Module,

Also known as a mini-Gigabit Interface Converter (GBIC), this industrial SFP module's metal housing offers increased durability while reducing electromagnetic

Dec 28, 2025

Single Mode SFP Fiber Module

Single Mode SFP Fiber Module is a cost effective way to connect a single network device to a wide variety of fiber cable distances and types. The primary goal of

Jan 14, 2026

10 Gigabit Fiber SFP+ Optical Transceiver Module

10 Gigabit Connectivity Intellinet Network Solutions 10GBase-LR Fiber SFP+ Optical Transceiver Module, model 507479, is the right choice when it comes to connecting two buildings at 10 GbE

Oct 11, 2025

SFP GE SFP Guide

PTP 550 SFP Single-Mode Optical 1000BaseLX SFP Interface per ODU Speed: 1 G Mode: Single Wavelength: 1310nm Kit Contents: SFP Module, Cable Gland (P16 Long) Spare Glands:

Dec 28, 2025

1 Gigabit Singlemode SFP Fiber Optic Transceivers

1 Gigabit Singlemode SFP Transceivers Our 1 Gigabit Singlemode SFP Transceivers offer high-performance, reliable connectivity for singlemode fiber optic networks.

Feb 21, 2026

Industrial Gigabit Fiber SFP Optical Transceiver Module,

That gives the user the ability to monitor parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and

May 27, 2026

1G SFP 1310nm 20km Optical Transceiver

Description The SFP transceivers are high performance, cost effective modules supporting dual data-rate of 1.25Gbps/1.0625Gbps and 20km transmission distance with SMF. The transceiver consists of

May 31, 2026

What Are The Types Of Gigabit Optical Modules

The interface type of dual fiber optical module is duplex LC, and the optical fiber types are single-mode and multi-mode. Gigabit multimode optical module is used together with OM2

Jun 01, 2026

1G BiDi SFP

GIGALIGHT's 1G BiDi SFP series optical transceiver modules support a speed of 1.25Gbps, widely used in Gigabit Ethernet, 1G fiber channel, and SDH. They can

Mar 08, 2026

Cisco SFP Modules for Gigabit Ethernet Applications

1000BASE-ZX SFP for long-reach single-mode fibers The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link spans of up

Jan 11, 2026

Know Your 800G Transceiver | Juniper Networks

Lane distribution—Juniper's 800G optics uses eight parallel lanes, either with multiple fiber pairs or wavelength multiplexing. 800G optics has parallel fibers that are used over shorter distances.

Apr 08, 2026

100GBASE-LR1 Application Overview

The TIA FOTC provides a comprehensive overview of 100GBASE-LR1 capabilities and single-mode optical fiber channel characteristics.

Oct 12, 2025

Gigabit single-mode single-core fiber optic module

The general parameters and basic knowledge of Gigabit optical transceivers are difficult to master. The following will introduce the general parameters of the optical module and the basic

Mar 04, 2026

Optical Modules for Huawei S Series Switches

Multi-mode optical modules are applicable to short-distance transmission, while single-mode optical modules are applicable to long-distance transmission. Single-mode optical modules will be widely

Oct 19, 2025

SFP-1G-SX Explained: The Essential Guide to 1G

Fiber Type Mismatch: Using single-mode fiber (SMF) with an SFP-1G-SX module will not work and can potentially damage equipment. Conversely,

Jun 21, 2026

A Quick Overview of Cisco SFP-1G-LH Module

The Cisco SFP-1G-LH optical module features a high-density duplex LC interface suitable for multimode and single mode fiber optics. It adheres to

Dec 08, 2025

FS SFP module family for Gigabit Ethernet Applications

Learn about FS 's comprehensive range of 1G SFP optical module products, including copper and regular fiber optical transceivers, CWDM,

Sep 28, 2025

Cisco Transceiver Modules

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

Aug 12, 2025

1G SFP Modules: A Deep Dive into Specs & Types

Learn how to choose and optimize 1G SFP modules. Compare specs, fiber vs copper types, troubleshooting tips, and best practices for reliable networks.

Contact Us

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