

Gigabit SC Single-Mode Optical Module



Article Overview

Gigabit Single-Mode Optical Modules are hot-pluggable SFP transceivers that deliver 1 Gbps Ethernet over single-mode fiber, supporting distances from 10 km to 40 km depending on the model.

Overview

A Gigabit Single-Mode SFP module is a compact, hot-swappable transceiver designed to convert electrical signals from a network device into optical signals suitable for single-mode fiber transmission, enabling 1 Gbps Ethernet connectivity. These modules are widely used in enterprise, data center, and industrial networks for long-distance fiber links, access-layer switching, and legacy infrastructure upgrades.

Key Features

- **Hot-Pluggable Design:** Can be installed or removed without powering down the switch or router, ensuring minimal network downtime.
- **Single-Mode Fiber Support:** Optimized for long-distance transmission, typically ranging from 10 km to 40 km depending on the wavelength and module type.
- **Wavelengths:** Commonly operate at 1310 nm or 1550 nm for single-mode fiber, with some BiDi modules using separate wavelengths for transmit and receive on a single fiber strand.
- **Digital Optical Monitoring (DOM):** Many modules support real-time monitoring of optical output power, input power, temperature, and voltage, enhancing network reliability and diagnostics.
- **Industrial-Grade Options:** Rugged metal housings allow operation in extreme tem...

Article Content

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

Single-Mode Gigabit Fiber Transceiver SFP/Mini-GBIC

Cisco GLC-LH-SMD Compatible SFP Module - 1000BASE-LH - 1GbE Single Mode Fiber SMF Optic Transceiver - 1GE Gigabit

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;

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 connector.

ipolex Gigabit Single-Mode SC Fiber to Ethernet Media ...

About this item Seamless Conversion of SC Fiber to Copper - This fiber optic to ethernet media converter is built-in single mode SFP

BiDi Gigabit Single Mode SC Media Converter, 10/100/1000M

BiDi Gigabit Single Mode SC Media Converter, 10/100/1000M Fiber to Ethernet Converter, 1000Base

Single Mode SC WDM Single Fiber Bi-Di Gigabit Media Converter

Single Mode WDM Single Fiber Bi-Di Gigabit Media Converter - Built-in Fiber Module 20km (12.42 Miles) Simplex SC - to UTP

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

SFP - small form factor - pluggable modules for various optical data communications such as Fast Ethernet, Gigabit Ethernet, BiDi,

Cisco SFP Modules for Gigabit Ethernet Applications

The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link spans of up to approximately 70 km in length. The SFP

Gigabit single-mode single-fiber SC port optical module

Buy Gigabit single-mode single-fiber SC port optical module online today! [Product Name] Gigabit Single Mode Single Fiber Optic

1.25G SFP Module, Single Mode SC, TX1550nm, DDM 10KM

1.25G SFP Module, SC Single-mode Fiber Optic Cable Connector, 1000 Base-BX TX 1550nm / RX 1330nm Single-mode, DDM

ZoeRax 1 Pair Gigabit SFP Optical Module SC 1.25G

ZoeRax Gigabit Single-Mode Single-Fiber SFP Module is designed for enterprise networks, data centers

1 Gigabit Singlemode SFP Fiber Optic Transceivers

1 Gigabit Singlemode SFP Transceivers Our 1 Gigabit Singlemode SFP Transceivers offer high

Gigabit Mini FTTH 1 Sc with 1 RJ45 Optical Transceiver

Product Description The Gigabit stand-alone Ethernet Media Converter that provides cost effective, entry

SFP-GE-CS-SM 1.25Gbps 1310nm Single-mode Simplex SC fiber

1.25Gbps 1310nm Single-mode Simplex SC fiber SFP Transceiver Compliant with SFF-8472 and DDM Function Small Form Factor

Gigabit single-mode single-core fiber optic module

Gigabit single-mode single-core optical fiber modules usually have the following specifications: multi-mode 550m, single

SC SFP – Optcore

SC SFP BiDi Transceiver The SC SFP module is only available for BiDi SFP types. Because the regular SFP module does not have

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for

Sfp Transceiver

JT-COM 1 Pair Gigabit Fiber Optical Media Converter Transceiver with SFP Module 3KM/5KM/20KM/40KM 1000Mbps Fast Ethernet

GBIC Single-Mode SC Module

The TEG-GBS80 GBIC Single Mode module works with standard GBIC slots on most switches. This Single Mode SC Type module

Cisco Transceiver Modules

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

What Are The Types Of Gigabit Optical Modules

The interface type of Gigabit single fiber optical module is LC& SC and the fiber type is single mode. It can be

1G SFP Transceivers | Mini-GBIC SFP Modules

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

1G BiDi SFP

GIGALIGHT's 1G BiDi SFP series optical transceiver modules support a speed of 1.25Gbps, widely used in

1.25G Gigabit SC single-mode single-fiber 3/20KM

Buy 1.25G Gigabit SC single-mode single-fiber 3/20KM optical module online today!
[Product Name]

Transceivers

The Hirschmann line has a variety of transmitter and receiver options available, allowing users to choose the correct transceiver for

Gigabit SFP Module 1.25G SC Simplex Connector

Fiber Sfp|Enhance your network's reach with our Gigabit SFP Module, featuring a 1.25G SC simplex

1.25G SC SFP Module Optical Module 20Km

Overview This 1.25G SC SFP Module is a high-performance 1.25G SFP fiber module designed for 20km bidirectional data

TL-MC101 | Gigabit Single-Mode Media Converter | TP

TL-MC101 is a media converter designed to convert 1000BASE-LX fiber to 1000Base-T copper media or

10G Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a duplex LC

1Pair Gigabit Fiber SFP Module 1000M SC 1.25G 1310nm/1550nm Single Mode ...

Buy 1Pair Gigabit Fiber SFP Module 1000M SC 1.25G 1310nm/1550nm Single Mode A+B Fiber Module Fit For Cisco Mikrotik

1.25G BIDI SFP SC Single Fiber Transceiver

1.25Gbps data link Hot-pluggable SFP footprint BIDI SC type pluggable optical interface All-metal housing for superior EMI

1000Base-LX SFP Module

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

Contact Us

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