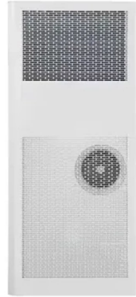


Single-mode single-core fiber optic gigabit transceiver



Article Overview

Single-mode gigabit SFP transceivers provide high-speed, long-distance fiber connectivity for single-core fiber networks, supporting distances from 10 km up to 180 km depending on the model and wavelength.

Overview

Single-mode gigabit SFP (Small Form-Factor Pluggable) transceivers are designed for long-distance fiber optic communication using a single-core fiber. They operate at 1 Gbps (Gigabit Ethernet) and are compatible with a wide range of networking devices, including switches, routers, and servers . These transceivers are hot-pluggable, allowing installation or replacement without powering down network equipment .

Key Specifications

- Fiber Type: Single-mode (SMF), optimized for long-distance transmission .
- Distance Range: Typically from 10 km to 180 km, depending on the specific model and wavelength .
- Wavelengths: Commonly 1310 nm or 1550 nm, chosen based on distance and fiber characteristics .
- Connector Types: LC Duplex or LC Simplex, providing reliable optical connections .
- Compatibility: Works with major brands like Cisco, FS, and other standard-compliant devices .
- Link Budget Considerations: For shorter distances, inline optical attenuators may...

Article Content

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

From the brand H!Fiber offers one-stop Datacenter solution and products, including SFP Transceivers,

SFP-7020-31: 1000Base-LX Gigabit SFP Transceiver ...

The transceiver is able to work on 9/125um single-mode fiber for up to 20Km distance. The fiber standard for SFP-7020-31 is

Gigabit single-mode fiber optic transceiver

At present, there are different types of optical fiber transceivers on the market, mainly divided into rack-type optical

Best Single Mode Fiber Optic Transceivers for Long-Distance

It delivers reliable Gigabit fiber connectivity for small to medium deployments and supports up to 10 km on standard

Single Mode vs. Multimode Fiber: Core Differences and Selection Guide

How do you choose between single mode and multimode fiber? Compare their differences in core size, light source,

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

Single Mode Fiber SFP – SFP Single Mode LC Module (20km)

TRENDnet's SFP Single Mode LC Module, model TEG-MGBS20, is compatible with standard SFP slots found on network switches

Single Mode SFP Transceiver: Complete Guide Explained

Learn what a single mode SFP transceiver is, how it works, key specs, common types, and real-world use cases for long-distance

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

Gigabit Fiber Media Converter

This Fiber Transceiver / Media Converter is designed to convert data signal between 10/100/1000Base-T and 1000Base-LX Gigabit

H!Fiber 10G Single Mode SFP+ LC Module, 10GBase-LR Fiber Transceiver ...

10GBase-LR SFP+: 10 Gigabit Ethernet Single Mode SFP+ Module, 10 Gb/s, 1310nm wavelength, Duplex Dual LC,

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

Singlemode transceiver modules buy online

Singlemode transceivers: These are the areas of application The increasing expansion of fiber optic networks is also driving up

SFP Gigabit Transceivers Singlemode Single-Strand BiDi

Discover SFP Gigabit single-strand BiDi modules for 20Km with SC connector. Cisco compatible - buy now for efficient fiber links!

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

Single Fiber Media Converter | 10/100TX-100FX Single Fiber

Single Fiber Media Converters Versitron's single fiber media converters efficiently convert Ethernet signals into optical signals using

1G SFP LX 1310nm 20km Single mode Transceiver

Featuring a built-in Semtec chip and reliable FP laser / PIN receiver, the SFP module delivers low power

Single Mode SFP Transceiver: Complete Guide Explained

In this guide, you will learn what a single mode SFP transceiver is, how it works, the key specifications and types available, and

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

Other features of this module include the ability to be used as a stand alone device (no chassis required) or with TP-Link's MC1400

Gigabit Fiber SFP Optical Transceiver Module

The transceiver is available as a mini-GBIC form factor, making it ideal for environments that require many

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.

Cisco Transceiver Modules

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

Gigabit single-mode fiber optic transceiver

Generally, optical transceivers are divided into single-mode and multi-mode, single-fiber and dual-fiber. The interface

Single-Mode vs. Multimode Fiber Cable: A Direct Comparison of

Cost Considerations Various factors, including core diameter, cable length, and transceiver compatibility, influence the cost of fiber

[Product Hub] Single Mode SFP Transceiver | Optcore

Single Mode SFP Module The single mode SFP module is one of the most common SFP transceiver types; sometimes, we refer to it

SFP Transceiver

Utilizing LC connectors and operating at a 1310nm wavelength, it enables high-speed data transmission over single-mode fiber for

10Gtek 10/100/1000M Gigabit Fiber Media Converter,

A pair of 10/100/1000M Gigabit Ethernet Media Converter, Single mode, Single fiber, RJ45 to SC, 20KM

SFP Transceiver

Operating at a 1310nm wavelength, it supports 1000BaseLX Ethernet over single-mode fiber for distances up to 10 kilometers. With a

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;

Cisco Gigabit Ethernet GBIC/SFP Modules

Cisco offers a range of GBIC transceivers and Small Form-factor Pluggables (SFP) transceivers for Gigabit Ethernet and Fibre

Contact Us

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