

Single-mode lc fiber optic transceiver



Summary of Content

A single-mode LC fiber optic transceiver is a hot-swappable optical module that transmits and receives data over single-mode fiber using LC connectors, supporting long-distance, high-speed communication.

Overview

A single-mode fiber optic transceiver is an optical module designed to convert electrical signals into optical signals and vice versa, enabling data transmission over single-mode fiber (SMF) with minimal signal loss. These transceivers typically operate at 1310nm or 1550nm wavelengths and are widely used in switches, routers, servers, and media converters for Ethernet and telecom networks . The LC connector, with its 1.25 mm ferrule, provides a compact, high-density connection that reduces signal loss and supports reliable long-distance transmission .

Key Features

- **Hot-Swappable:** Can be inserted or removed without powering down the network device .
- **Long-Distance Transmission:** Supports distances from 10 km up to 180 km, depending on the module type and optical power budget .
- **High Bandwidth:** Suitable for high-speed data communication, including 1 Gigabit and higher speeds .
- **LC Connector:** Duplex or simplex LC connectors allow for compact, secure, and low-loss connections, ideal for high-density environments .

Article Content

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

Understanding Single Mode LC Connector: A

Discover the essentials of Single Mode LC Connectors in our comprehensive guide. Explore

Mini GBIC SFP transceiver LX Single-Mode (10km)

Support for Mini GBIC Connectivity The GVT-0301 SFP Transceiver Series transceivers support LX standard optic with single-mode

4K HDMI Fiber Extender with SFP Module (LC Port)

4K HDMI Fiber Extender with SFP Module (LC Port) Mini Optical Transceiver Over Single Mode Optical

Intro to Networking

The key difference between Multi-Mode (MM) and Single-Mode (SM) fiber optic cable is the core diameter. The diameter of MM fiber

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

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

Gigabit Fiber SFP Optical Transceiver Module

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

LC Singlemode Fiber Optic Transmitters, Receivers, Transceivers

LC Singlemode Fiber Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Mouser offers inventory,

Singlemode SFP Transceivers Fiber Optic Transmitters, Receivers ...

Singlemode SFP Transceivers Fiber Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Mouser offers

Optical fiber connector

Optical fiber connector LC (top) and ST (bottom) optical fiber connectors, both with protective caps in place An optical fiber connector

A Complete Guide to Single Mode LC Connectors in

The LC connector is specially designed for single-mode fiber optic cables. It minimizes signal loss and

Single Mode Fiber Transceivers – Fiber Savvy

Single Mode Fiber Optic Transceivers are essential components in high-speed, long-distance data transfer networks. Their ability to

optical transceiver sfp+ 10g single mode module 1310nm 10km lc

Upgrade networks with our optical transceiver sfp+ 10g single mode module 1310nm 10km lc. This LC transceiver delivers effortless

Fiber Connector Types: A Complete Guide (2024)

A fiber connector is a precise coupling device to join fiber cables quickly. This guide introduces LC, SC, FC, ST, MPO,

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

TL-FM511 | 10GBase-LR SFP+ LC Transceiver | TP-Link

It is a 10GBASE-LR high performance 1310 nm single-mode SFP+ transceiver. It supports full duplex, 10G

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

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

H!Fiber offers one-stop Datacenter solution and products, including SFP Transceivers, DAC Cables, Network Card,

Luminex Transceivers

Single Mode Fiber Transceiver This single mode fiber (SMF) SFP transceiver provides 1000Base-LX

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

SEL-2829 Single-Mode Fiber-Optic Transceiver/Modem

Connect a pair of transceivers and an SEL-C809 Single-Mode Fiber-Optic Cable with ST connectors for EIA-232 communication

Difference Between Single and Dual Fiber Optical Transceivers

Fiber optic technology has seen incredible growth over the past several years and will likely experience even more

SFP Transceiver Single Mode: High-Performance Solutions

An SFP (Small Form-Factor Pluggable) transceiver single mode LC module is a compact, hot-swappable device used in networking

Comparing Single-Mode vs Multimode SFP

Explore the differences between single-mode and multimode SFP transceivers. Find the

[fiber transceiver single mode | Newegg](#)

Search Newegg for fiber transceiver single mode. Get fast shipping and top-rated customer service.

SEL-2830 Single-Mode Fiber-Optic Transceiver/Modem

Improve safety, signal integrity, and reliability by using two optical fibers instead of wire to transfer bidirectional serial data using

Fiber to Ethernet Media Converter, Gigabit Single Mode

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

XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM

The XG-SFP-LR-SM1310 is aligned to IEEE 10GBASE-LR optical specifications and supports a link length of up to 10 kilometers

SFP Transceiver - SFP Single Mode LC Module (10km)

TRENDnet's SFP Single Mode LC Modules are compatible with standard SFP slots found on network switches and fiber converters.

Contact Us

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