

Single-mode fiber optic transceiver lc-lc



AI Overview

LC single-mode fiber optic transceivers are compact modules that enable high-speed optical data transmission over long distances using LC connectors and single-mode fiber.

Overview LC single-mode transceivers are small form-factor pluggable (SFP/SFP+) modules designed to transmit and receive optical signals over single-mode fiber (SMF). They are widely used in enterprise networks, data centers, and telecom applications where long-distance, high-bandwidth connectivity is required. The LC connector is the most common interface for modern SFP modules, providing a compact duplex connection that supports high port density.

Key Features

- Connector Type:** LC duplex, which ensures precise alignment of the fiber core with the optical transmitter and receiver.
- Fiber Type:** Single-mode fiber (typically 9/125 μm), optimized for long-distance transmission.
- Wavelength:** Commonly 1310 nm for 10GBASE-LR modules, suitable for distances up to 10 km.
- Data Rates:** Available in 1G, 10G, and higher speeds depending on the module type (SFP, SFP+, or QSFP).
- Duplex Transmission:** Supports full-duplex communication, allowing simultaneous sending and receiving of data.

Applications LC single-mode transceivers are ideal for:

- Long-distance Ethernet connections in campus or metropolitan networks.
- Data center interconnects where high-speed 10G or 25G links are required.
- Telecom backbone networks that require reliable optical transmission over several kilometers.

Examples of Products

- TP-Link TL-FM511:** A 10GBASE-LR SFP+ transceiver with 1310 nm wavelength, supporting up to 10 km over single-mode fiber.
- H!Fiber 10G SFP+ LC Module:** 10GBASE-LR transceiver for SMF with LC duplex connector, suitable for data center deployments.

General SFP Modules: Available from multiple vendors like Cisco, Ubiquiti, and others, compatible with LC single-mode fiber.

Considerations

- Connector Compatibility:** Ensure the LC connector matches the fiber patch cable to avoid adapters and insertion loss.
- Distance and Wavelength...**

Article Content

TMT Single Mode LC-LC/UPC Duplex 3M Tight Buffered Fiber Optic

Single Mode LC-LC/UPC Duplex 3M TMT GLOBAL High Quality and Cost-effective SM,MM Simplex Fiber Patch Cord Patch Cords are used to provide optical connection for fiber optic electronics. The

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

TRENDnet's single mode fiber SFP, model TEG-MGBS20, features a duplex LC fiber interface, supporting high-speed data rates for long distance networking applications (up to 20km).

How do You Connect Fiber Optic Cable to SFP?

Learn how to connect a fiber optic cable to an SFP module correctly. Follow our step-by-step guide, avoid common mistakes, and troubleshoot connection issues.

LC to LC Single Mode Fibre Optic Adapter, Quad

Buy LC to LC UPC fibre optic adapter from reliable fibre optics supplier -

LSH-LC G.657.A Singlemode Fiber Duplex Patch cord

BlueOptics compatible SFP3138 ##Length## G.657.A1 fiber optic LC-E2000 patch cables transmit optical signals and are designed, for example, for connecting patch panel ports to each other or the

A Complete Guide to Single Mode LC Connectors in

Single-mode LC connectors feature ceramic ferrules for low-loss long-distance transmission and push-pull design for high-density deployments. Ideal for

Fiber Optic Patch Cord, Single Mode & Multimode

Fiber Optic Patch Cord In this category, you will find various duplex and simplex LC/SC/FC/ST/Uniboot LC/MDC fiber optic patchcords, which are used to

Hirschmann M-FAST SFP-SM/LC Transceiver, Small

The M-FAST SFP-SM/LC is a high-performance fiber optic transceiver from Hirschmann, designed for Fast Ethernet applications. Here are some key

1 Pair 1.25G SFP Transceiver Single-Mode Single-Fiber SFP Module

Descriere 1 Pair 1.25G SFP Transceiver Single-Mode Single-Fiber SFP Module with LC Connector 10 for H3C and Ruijie Power Source and Wireless Functionality: This transceiver is non-powered and

Huawei SFP-10G-iLR Optical Transceiver Best price in Duba

Basic Information Module name SFP-10G-iLR Part Number 02311BJJ Model SFP-10G-iLR Form factor SFP+ Application standard 10GBASE-iLR (non-standard) Connector type LC Optical fiber type SMF

Fiber Optical Transceiver Module Manufacturer,

10G Transceiver BIDI SFP+ designed for bi-directional 10G serial optical data communications. CWDM SFP+ operating at 1270-1610nm CWDM wavelengths

1 Gigabit Singlemode SFP Fiber Optic Transceivers

These transceivers are engineered for long-distance applications, supporting distances from 10 km to 180 km depending on the model and wavelength. They

Simplex vs Duplex Fiber Optic Cables: Key Differences & Guide

Confused about simplex vs duplex fiber optic cables? Learn key differences, BiDi & WDM technology, FTTH vs data center use cases, and how to choose the right fiber.

StarTech Cisco GLC-LH-SMD Compatible SFP Module

StarTech Cisco GLC-LH-SMD Compatible SFP Module - 1000BASE-LX/LH - 1GbE Single Mode Fiber Optic Transceiver - 1GbE SFP - LC 10km - 1310nm - DDM Cisco Firepower, ASR920, IE2000

LC Single-Mode 12G Converters

FiDO LC Single-Mode 12G Converters allows the transport of 12G-SDI over distances up to 10km when using standard Single-Mode fiber optic cable with an LC connection. FiDO LC 12G-SDI models

Understanding Single Mode LC Connector: A Comprehensive Guide

This guide will explain their functions, discuss the role of single-mode LC connectors in modern fiber optic systems, and present the logic for their adoption on a broader scale.

LC Singlemode Fiber Optic Transceivers - Mouser

LC Singlemode Fiber Optic Transceivers are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for LC Singlemode Fiber Optic Transceivers.

AJA 1-Channel 12G-SDI/LC Single-Mode LC Fiber Transceiver

The AJA 1-Channel 12G-SDI/LC Single-Mode LC Fiber Transceiver allows up to 10 km (32,808 ft) of standard single-mode fiber optic cable. AJA 1-Channel 12G-SDI/LC Single-Mode LC Fiber

Amazon : Single Mode Sfp

Discover high-performance single mode SFP modules for your network. Compatible with major brands like Cisco, Ubiquiti, and more.

SFP1-SM-D Transceiver, 2 Strand Duplex Fiber Optic LC (PC/UPC ...

SFP1-SM-D is a fiber optic transceiver using 1310nm single-mode signals. These standard pluggable SFP optical modules have two LC connectors for reception and transmission over two strands of

Fiber Optic Cable Supply | Buy Fiber Optic Products

Switches, Transceivers, Media Converters Full line of media conversion products for your copper-to-fiber network including 10/100 standalone converters, Industrial

Fiber Optic Cable Types Explained

Like we mentioned above, indoor fiber optic cable comes in several different types, including single-mode and multimode cable. It also comes available in different

30M OS2 LC to LC Fiber Patch Cable, Single Mode

Product description LC to LC Fiber Patch Cord Connectors Type: LC to LC. Low insertion loss and back reflection loss. UPC end polish. Good exchangeability,

Used Simplex OS2 Single Mode LC UPC to FC UPC LSZH 2.0mm Fiber ...

When you click on links to various merchants on this site and make a purchase, this can result in this site earning a commission. Affiliate programs and affiliations include, but are not limited to, the eBay

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://sphplantsales.co.za>

Email: info@sphplantsales.co.za

Phone: +27 64 827 3915

Address: Unit 9, Highveld Technopark, 43 Atlas Road, Johannesburg, 2196, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

