

Single-mode dual-core optical LC module



Article Overview

An LC Single-Mode Dual-Core Optical Module is a duplex fiber transceiver designed for long-distance, high-speed data transmission using single-mode fiber with two cores for simultaneous bidirectional communication.

Overview

An LC Single-Mode Dual-Core Optical Module is a fiber optic transceiver that uses single-mode fiber (SMF) to transmit data over long distances with minimal signal loss. The "LC" refers to the type of connector used, which is compact and widely compatible with modern networking equipment. "Dual-core" indicates that the module uses two fiber strands: one for transmitting and one for receiving, enabling full-duplex communication .

Key Specifications

- Data Rate: Typically supports 1.25G, 10G, or higher, depending on the module type .
- Wavelength: Commonly operates at 1310nm, optimized for single-mode fiber transmission .
- Transmission Distance: Can reach 10 km to 20 km or more, depending on the module and fiber quality .
- Duplex Operation: Uses two cores for simultaneous send and receive, improving efficiency and reducing latency .
- Digital Diagnostic Monitoring (DDM): Many modules include real-time monitoring of optical power, temperature, and signal integrity

Article Content

10Km SFP+ Optical Module

This product need to use in pair and match up with fiber converter and optical Ethernet switch with SFP

Cisco Transceiver Modules

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

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

Key Differences Between Single-Mode and Multimode Optical Modules

Compare single-mode and multimode optical modules by core size, distance, speed, and cost. Choose the right

What is the difference between lc and duplex lc?

LC vs. Duplex LC: LC is a single connector, while duplex LC is a dual connector configuration. The difference between LC and

The Difference Between Single-mode and Multi-mode Optical Modules

3. Are single-mode optical modules compatible with multi-mode optical fibers? Single-mode optical modules are generally not

SFP LC Connector: Everything You Need to Know

The SFP LC connector is a necessary part of fiber optic communication, used in switches, routers, and transceivers

The Key Differences Between 1-core, 2-core, Single Mode, and

Understanding 1-core, 2-core, Single Mode, and Multi-mode optical modules helps you design efficient networks.

Understanding the Duplex LC Connector: The Go-To Fiber Network

Optical fibers are classified in terms of single mode and multimode, depending on their core size and the principle of

Optical fiber connector

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

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;

Differences Between Dual Fiber SFP and Simplex SFP Modules

Dual fiber SFP and simplex SFP modules are two different SFP types, and understanding their differences is crucial for making

SFP Optical Transceiver Module LC 1.25G-LR Dual

The 1.25G SFP transceiver module operates at a specific wavelength, typically around 1310nm, which is

LC Vs SC Vs FC Vs MPO Fiber Optic Connectors: Expert Guide

Compare LC, SC, FC, ST, MPO & MTP fiber optic connectors with expert insights. Learn which connector fits your

10Km SFP+ Optical Module

This is a standard SFP+ optical module. It uses two single mode optical fibers and the speed rate can up to 10Gbps, transmission

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

L-com Single mode SFP Module Duplex LC (1310nm)

L-com's line of SFP modules comply with the MSA standard and can be used in any device that accepts an

MikroTik · S-31DLC20D

S-31DLC20D is a 1.25G SFP transceiver with a 1310nm Dual LC connector, for up to 20 kilometer Single

1.25G SFP Module Transceiver, 1000Base-LX,1310nm SMF,Dual LC

1.25G SFP MODULE- 1.25Gbps SFP Optical Transceiver, Dual LC single-mode fiber, 1310nm, up to 20km super long distance

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

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

SFP Single Mode LC Module (80km)

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

Understanding Single Mode LC Connector: A Comprehensive Guide

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

LC Fiber Optics: A Comprehensive Guide

LC fiber connector products are robust optical solutions designed for telecom applications, encompassing LC fiber

Simplex vs Duplex Fiber Cable: Key Differences and How to Choose

Check the Optical Module Type The first step is to determine whether the optical transceiver is designed for single-fiber

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

The 1310nm LC Interface 10G Singlemode Dual-fiber Optical Module is the workhorse of the modern network. It combines speed,

Optical Transceiver SFP+ 10G Single-Mode Module 1310nm 10km LC

Explore the features, applications, and selection guide for optical transceiver SFP+ 10G single-mode 1310nm 10km

Contact Us

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

Website: <https://www.watermanfinance.co.za>

Email: sales@watermanfinance.co.za

Phone: +49-176-8294713

Address: Neue Mainzer Str. 66-68, 60311 Frankfurt am Main, Germany

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