Fiber optic multimode dual lc



Overview

Multimode Duplex LC Connectors Fiber Optic Connectors – MouserMouser offers inventory, pricing, & datasheets for Multimode Duplex LC Connectors Fiber Optic.

Key Takeaways

A multimode dual LC fiber optic transceiver is a module that supports high-speed data transmission over multimode fiber using a duplex LC connector interface.

Overview

Multimode dual LC transceivers integrate both transmitter and receiver functions in a single module, typically supporting Fast Ethernet, Gigabit Ethernet, 10Gbps Ethernet, and other protocols such as fiber channel, sFPDP, ARINC 818, and ARINC 664. The duplex LC interface allows for simultaneous bidirectional communication over two fibers, one for transmitting and one for receiving.

Key Specifications

Data Rates: Commonly available in 1. 25Gbps (Gigabit Ethernet), 10Gbps (10GBASE-SR), and other speeds depending on the module. Wavelength: Typically 850nm for short-range 10G multimode or 1310nm for 1.

25G multimode applications. Link Distance: Varies by fiber type and wavelength; for example, 10GBASE-SR can reach up to 300m on 50/125µm MMF, while 1. 25G 1310nm modules can reach 2km on multimode fiber.

Connector Type: Duplex LC, which is compact and widely used in data centers and enterprise networks. Signal Type: Full duplex, supporting simultaneous transmission and reception.

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Applications

These transceivers are suitable for a variety of environments: Enterprise and data center networks for high-speed Ethernet connectivity. Industrial and utility applications, including military, petrochemical, and mining, where modules must withstand shock, vibration, and extreme temperatures. Media conversion setups, where SFP slots are used to connect multimode fiber to copper Ethernet networks.

FeaturesPlug-and-play operation with automatic recognition in SFP/SFP+ slots. Support for standard protocols and compliance with IEEE and ANSI requirements. Monitoring and control signals via LVTTL or similar interfaces for network management.

High link budget to ensure reliable transmission over the specified distances.

Example Products

Moog Razor Series: Rugged multimode transceivers for industrial and military applications with duplex LC interface. TP-Link TXM431-SR: 10GBASE-SR SFP+ multimode transceiver, 850nm, up to 300m on 50/125µm fiber.

Nu

Fiber GE-SX-MM1310: 1. 25G SFP multimode transceiver, 1310nm, up to 2km link distance.

Bi

Di Gigabit Multi-

Mode SFP: Dual LC transceivers supporting 1. 25Gbps up to 550m, often used with media converters. These modules provide flexible, high-speed connectivity for multimode fiber networks, making them ideal for both short-range and medium-range applications in enterprise, industrial, and specialized environments.

Article Content

Multimode Duplex LC Connectors Fiber Optic Connectors – Mouser

Mouser offers inventory, pricing, & datasheets for Multimode Duplex LC Connectors Fiber Optic Connectors.

Duplex LC Connector: Design, Fiber Types, and Best

This article explains what Duplex LC connectors are, how they work, the difference between single-mode and multimode use, how to choose and maintain them,

What is the difference between lc and duplex lc?

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In summary, the LC connector is a small form-factor fiber optic connector used for single-mode and multimode applications. Duplex LC refers to a pair of LC

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LC Fiber Optics: Guide to LC Connectors, ULL Cables,

A guide to LC fiber optics. Learn LC connector geometry, UPC/APC polish types, ULL patch cords, MPO–LC transitions, high-density cassettesa,

Best Direct Burial Fiber Optic Cable Solutions for Harsh Environments

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The USB-C 7-in-1 Dual Display MST Docking Station is the perfect hybrid dock for an office desktop solution, when traveling for business or when working from home.

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OM4 2 Core 100m 150m 200m 300m 2C SC LC FC ST 3mm Multimode Dual Fiber Optic Jumper Outdoor (OM4 FC-FC 250m) : Amazon.sg: Electronics Products are returnable on Amazon.sg within

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber Guide | EDGE Optical ...

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Compare OM1, OM2, OM3, OM4, and OM5 multimode fiber specs, distances, bandwidth, and applications. Essential guide for data center fiber selection.

LC Fiber Optics: Complete Guide 2026 to Patch Cables,

Explore LC fiber optics in depth: LC connectors, LC patch cables, uniboot designs, attenuators, breakout cables, LC adapters, patch panels, MPO

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Fiber Optic Connector Types: A Beginners Guide

The fiber connector types, sometimes referred to as terminations, link fiber optic cables together through terminals, switches, adapters, and patch

The FOA Reference For Fiber Optics

Read more about coherent fiber optic systems. Sources for Fiber Optic Transmitters The sources used for fiber optic transmitters need to meet several criteria: it has to be at the correct wavelength, be

OM4 50/125 Multimode Fiber Cable, Dual LC / Dual LC, 10.0m

These revolutionary OM4, 50/125 Multimode laser optimized fiber optic cables are constructed from the highest quality silica and are 100% factory tested. Typically, 100 Gigabit applications are run on

Duplex Multimode Fiber Coupler LC-LC | Eaton

This coupler provides a simple and easy way to link together two fiber optic cables with LC connectors. Can be used with duplex or simplex cable assemblies.

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