

Optical module dual lc interface



Overview

Small Form-factor Pluggable (SFP) is a compact, network interface module format used for both and applications. An SFP interface on is a modular slot for a media-specific, such as for a or a copper cable. The advantage of using SFPs compared to fixed interfaces (e.g. in) is t.

AI Overview

Dual LC optical modules use two LC connectors to enable full-duplex fiber communication, supporting high-speed data transmission in single-mode or multimode networks. Overview A dual LC interface integrates two LC (Lucent Connector) ferrules in a single housing, allowing one fiber for transmitting (TX) and one for receiving (RX) optical signals, which is essential for full-duplex communication in Ethernet and telecom networks. This design is widely used in SFP, SFP+, SFP28, QSFP, and OSFP optical modules, providing compact, high-density connectivity for data centers and enterprise backbones. Key Features Compact Form Factor: LC connectors use 1.25 mm ferrules, smaller than SC connectors, enabling dense port layouts. Fiber Compatibility: Supports both single-mode fiber (SMF) for long-distance links and multimode fiber (MMF) for shorter distances. Full-Duplex Transmission: Dual fibers allow simultaneous bidirectional data flow, critical for high-speed Ethernet (1G, 10G, 25G, 100G, and beyond). Polarity and Handling: Correct TX/RX alignment and careful connector handling are essential for stable optical links. Advanced Variants: Some modules include uniboot LC for reduced cabling bulk, APC polish for low reflection in DWDM/CATV, and pull-tab LC for easier access in dense panels. Applications Data Centers: High-density SFP+/SFP28 modules with dual LC connectors support 10G-25G Ethernet links over short or medium distances. Telecom and Metro Networks: Coherent optical modules with dual LC interfaces enable 100G...

Article Content

Optical Interconnect Technology Analysis: LPO, NPO,

Exploring optical interconnects for AI data centers: LPO for low-power, short-distance links, NPO for high-density, near-package connections,

The Ultimate Guide to SFP Modules (2026): Types,

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the

Know Your 400G Transceiver | Juniper Networks

However, a 400G module such as FR4 or LR4 that uses 4×100G optical lanes requires only four fibers (two duplex LC connectors) to transmit and receive signals.

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1.25Gbps SFP Bi-Directional Transceiver, 20km LC Reach

SFP Transceiver Module 1.25gbps 20km LC Reach Tx1310nm/Rx1550nm Bi-Directional for Data Center FTTH FTTX Product Overview 1.25Gbps SFP Bi-Directional Transceiver, 20KM Reach The SFP

Optical Solutions

Optical Flex Circuits FlexPlane Optical Flex Circuits provide versatile, high-density routing on a flexible substrate, and Routed Ribbon Solutions offer cable

Products

04 DWDM Dual Fiber Mux/DeMux 10 variants available M Module,100GHz, 1310 Port, Monitor

Dual LC – GIGALIGHT

The optical amplifier module developed by GIGALIGHT is designed for long-distance transmission systems in digital optical fiber communication. It is specifically designed to work in conjunction with

Mixed-signal and digital signal processing ICs | Analog

ADI's optical networking solutions power efficient, compact optical modules for data center, enterprise, and telecom markets.

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100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP-100G-SR-S Module is a pluggable optical transceiver with a duplex LC connector interface supporting link lengths of 70

Cisco OSFP 800G Transceiver Modules Data Sheet

The module has dual duplex LC UPC single-mode fiber connectors. It is compliant with IEEE 802.3 400GBASE-FR4 and OSFP MSA module

OVTSC SFP Optical Module 1.25G Tx1310/Rx1550nm Single Fiber

Extended Transmission Range: Supports an impressive communication distance up to 10km over a single-mode fiber optical module setup perfectly. Dual Wavelength Efficiency: Operates precision

The Ultimate Guide to SFP Modules (2026): Types, Speeds

What is an SFP? SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module used to connect network devices (switches, routers, firewalls) to fiber optic or copper cables.

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Optical fiber connector

Field-mountable optical fiber connectors are used to join optical fiber jumper cables that contain one single-mode fiber. Field-mountable optical fiber connectors are

800GBASE-2FR4 OSFP 1310nm 2km Dual LC Duplex DOM

The 800GBASE-2FR4 OSFP Optical Transceiver Module is designed for 800GBASE throughput up to 2km over single-mode fiber (SMF) with dual duplex LC connectors.

China Optical Transceiver Module & Mellanox Network Switch

Duplex LC Mellanox Optical Transceiver MFM1T02A-SR MMF IEEE 802.3ae 32 QSFP-DD Open Source Mellanox Ethernet Switches 400GbE 1U MSN4700-WS2F MCX4121A-XCHT 3050m

OSFP 800Gbps (2x400Gbps) Optical Transceiver

The transmit path of the module incorporates a bi-directional PAM4 retimer ASIC rated with an 8-channel modulator driver, 8 exte each CWDM channel) and two optical multiplexers. On the receive

10G SFP+ LC Dual Fiber Transceiver

The 10GBASE compatible SFP+ transceiver is designed to support link lengths of up to 80km over single-mode fiber using an LC duplex connector. It offers digital

Gigabit 6-port L2+ managed bypass industrial PoE switch

L2+ managed bypass industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*100/1000M uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service

2Pack BiDi Gigabit Multi-Mode Fiber Ethernet Media

Fiber Optical Port: Features a 1.25Gbps SFP port supporting BiDi LC Dual Multi

300m SFP+ Optical Module

This product need to use in pair and match up with fiber converter and optical Ethernet switch with SFP slot, it can be used in Ethernet, telecom and optical

800G Optical Modules Explained: Standards, Types

Interface: Dual CS or dual duplex LC connectors. Description: These are upgrades to the 400G FR4 and LR4 modules, using CWDM4 wavelengths

100GBASE QSFP-100G Modules Data Sheet

Cisco QSFP-40/100-SRBD The Cisco QSFP 40/100 Gb dual-rate Bi-Directional (BiDi) transceiver is a pluggable optical transceiver with a duplex LC

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Designed for your current needs and future ambitions, Marvell delivers the data infrastructure technology transforming tomorrow's enterprise, cloud, automotive,

1.6T OSFP 2xDR4/DR8, 1310nm, 500m, DDM, CDR,

The MJ-OSFP1.6TB-DR8 is a cost-effective, high-performance OSFP module tailored for AI datacenter applications, delivering an aggregate throughput of 1.6

ICON Integrated Communications Optical Network

The SEL ICON is a wide-area-networking multiplexer optimized for industries and utilities where speed and dependability are critical. The ICON provides

Small Form-factor Pluggable

Overview SFP types QSFP Applications Standardization Mechanical dimensions Digital diagnostics monitoring

Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module format used for both telecommunication and data communications applications. An SFP interface on networking hardware is a modular slot for a media-specific transceiver, such as for a fiber-optic cable or a copper cable. The advantage of using SFPs compared to fixed interfaces (e.g. modular connectors in Ethernet switches) is t

4X SFP Optical Module Gigabit Single-Mode Optical Module SFP-GE

4X SFP Optical Module Gigabit Single-Mode Optical Module SFP-GE-LX-SM1310 20KM Dual Fiber 1.25G for H3C Popis Product Name: SFP Gigabit Optical Module Product model: SFP-GE-LX

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