

Optical module interface type lc



AI Overview

LC (Lucent Connector) is the most widely used optical interface for SFP, SFP+, and QSFP modules, offering high-density, low-loss connections in modern fiber networks. Overview of LC Connectors LC connectors, originally developed by Lucent Technologies, feature a 1.25 mm ferrule—half the size of SC connectors—allowing high port density in patch panels and transceiver cages. They use a push-pull latch mechanism for secure, tool-less connections and are fully compliant with TIA/EIA-604 standards, ensuring cross-vendor compatibility. LC connectors are commonly deployed in data centers, enterprise LANs, SANs, and telecom networks due to their compact size and reliable optical performance. LC in Optical Modules Most modern SFP, SFP+, SFP28, and QSFP modules adopt LC interfaces for fiber connectivity. The LC connector serves as the physical interface between the transceiver and fiber patch cables, aligning the fiber core with the optical transmitter and receiver to ensure precise light coupling. Key points include: Duplex LC: Two fibers in a single connector pair, supporting bidirectional communication. Uniboot LC: A single cable carrying both fibers, reducing cable bulk and improving airflow in high-density racks. LC-UPC and LC-APC: Variants with different polish types; UPC (Ultra Physical Contact) for general low-loss applications, APC (Angled Physical Contact) for high return-loss performance, often used in PON networks. Compatibility and Deployment Considerations LC connectors are the default choice for modern SFP modules, while SC connectors are mostly found in legacy networks, and MPO/MTP connectors are used for high-density backbone cabling. When deploying LC-interfaced modules: Ensure connector type matches the patch cable to avoid adapters and additional insertion loss. Maintain clean end-faces to prevent signal degradation. Consider polarity and duplex orientation for proper network operation. Summary LC interfaces dominate modern optical modules due to their small form factor, high-density capability, and reliable...

Article Content

LC vs SC SFP Module Interface: 2025 Buying Guide for

Confused about the LC vs SC SFP module choice? We explain the physical differences, density benefits, and why Wolontek recommends LC for data

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Mellanox Technologies MMA2P00AS network transceiver module Fiber optic

Mellanox Technologies MMA2P00-AS network transceiver module Fiber optic 25000 Mbit/s SFP28 850 nm 980-91595-00AM00 Specifications Product Type SFP Transceiver Modules Brand Nvidia

TQSFP56-200G-FR4 Arista QSFP-200G-FR4 Compatible 200G

Key attributes Type Fiber optic module Connector Type LC Power Source DC 5 V Use Data Center Interconnect, 200G Ethernet Network Wired LAN Model Number TQSFP56-200G-FR4 Brand Name

SFP Fiber Optic Connector Types: LC, SC, MPO Explained

LC is the default and most widely used fiber optic connector for SFP modules due to its small size and broad compatibility. It is designed specifically to support high port density without compromising

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

LC (Lucent Connector) is the world's dominant duplex optical interface, used across enterprise networks, telecom infrastructure, and especially

Differences Between SC and LC Connectors | LC vs SC

The LC (Lucent Connector) is a smaller, more compact fiber optic cable connector designed to provide high-density connections in modern network

Original BLEDDDB-DDBM BiDi SFP Transceiver Module with DDM

Plug-in Mounting Manufacturer Part Number BLEDDDB-DDBM Type Optical Transceiver Module Description Optical Transceiver Module Place of Origin China Product name Plug-in Mounting

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Axiom Sfp-Gsx/Lc-Ae-Ax Network Transceiver Module Fiber Optic

1000BASE-SX SFP Transceiver for Advantech Axiom SFP-GSX/LC-AE-AX. SFP transceiver type: Fiber optic, Interface type: SFP, Fiber optic connector: LC Axiom SFP Transceiver Modules are 100%

Fiber Optic Cable Assembly Guide | LC, SC & ST Connectors Explained

Learn how to select and test LC, SC, and ST connectors for reliable fiber optic cable assemblies. Includes polish types, OFC

How to distinguish between LC and SC interfaces of optical modules?

LC optical module refers to the optical module whose interface type is LC, which is divided into simplex and duplex, and is used in connection with LC optical fiber connectors. The structure of

100G 1310nm EML TOSA Low Power PAM4 Optical Transmitter Module

Why Choose our 100G 1310nm EML TOSA? This 100G 1310nm EML TOSA is a low power optical transmitter module designed for optical communication networks. It adopts PAM4 modulation and a

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Brocade Compatible 57-0000088-01 16G SFP+ SW 850nm 2km LC

Key attributes Type Fiber optic cleaver Use Switches, data centers Model Number 57-0000088-01 Place of Origin Beijing, China Warranty Time 1year Product name 57-0000088-01 interface type double LC

Optical fiber connector

They come in various types like SC, LC, ST, and MTP, each designed for specific applications. In all, about 100 different types of fiber optic connectors have been

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Product Type

Frames, Panels, Cassettes & Modules Frames, Panels, Cassettes & Modules ensure superior protection, reliability and scalability for your indoor networks.

LC Fiber Optics: Complete Guide 2026 to Patch Cables,

LC (Lucent Connector) is one of the most widely adopted fiber optic interfaces in the world today. Originally developed by Lucent Technologies, the

Generic Compatible 50GBASE-SR SFP56 850nm 100m Duplex LC

Overview The Generic Compatible 50GBASE-SR SFP56 is an optical transceiver module designed for 50Gbps data transmission. It utilizes an 850nm VCSEL laser source and supports link lengths of up

400G QDD-400G-ZR-L Tunable DWDM Transceiver 120KM SMF LC Interface

400G QDD-400G-ZR-L Tunable DWDM Transceiver 120KM SMF LC Interface Long Haul Optical Module Compatible Cisco H3C

Display Module Market Size, Share and Growth

Non-optical display modules hold the largest share of the display module market due to their widespread adoption across consumer electronics, automotive, industrial equipment, medical

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The Meaning of LC in SFP Optical Modules

Optical module interfaces are critical components in the fiber optic communication infrastructure, facilitating the connection between the optical fiber and the

LC Fiber Optics: A Comprehensive Guide

What Does LC Mean in Fiber Optics? LC stands for a type of optical connector of which the full name is Lucent Connector. It comes with the name

Optical Fibre SFP Module for 5G Networks An SFP (Small Form-factor ...

Main Components *LC optical connector *Laser transmitter (Tx) *Photodiode receiver (Rx) *EEPROM for module information *Electrical interface to the equipment *Metal housing for shielding and heat ...

Optical Module SFP-GE-SX-MM850 1.25G SFP Dual LC 55m

Type Fiber optic transceivers Connector Type LC Use Data center/AI computing center/HPC /FTTB Network 4 G, 5g, GPON, EOPON, FTTB, FTTX Model Number SFP-GE-SX-MM850 Brand Name

100GBASE QSFP-100G Modules Data Sheet

QSFP-100G Optical modules Features and benefits of Cisco QSFP modules Hot-swappable input/output device that plugs into a 100G Gigabit

Contact Us

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