

Lc interface fiber optic transceiver



AI Overview

LC fiber optic transceivers are compact modules that transmit and receive optical signals via LC connectors, supporting high-density, high-speed network applications.

Overview LC (Lucent Connector) fiber optic transceivers are modules designed to interface with LC fiber patch cables, providing both transmitter and receiver functions in a single unit. The LC connector features a 1.25 mm ferrule, which is half the size of the SC connector, allowing higher port density on panels and transceivers, making it ideal for data centers, enterprise LAN/SAN, and telecom networks.

Types of LC Transceivers LC transceivers come in various types depending on speed and protocol:

- SFP (Small Form-factor Pluggable):** Supports Fast Ethernet, Gigabit Ethernet, and fiber channel.
- SFP+:** Supports 10G Ethernet.
- SFP28:** Supports 25G Ethernet.
- QSFP+ and QSFP28:** Supports 40G and 100G Ethernet, respectively.
- QSFP-DD:** Supports 400GBASE-FR4 and 400GBASE-LR8 for 400G networks.

They can be simplex (single fiber) or duplex (dual fiber) depending on the application and standard.

Features and Advantages

- High density:** Compact size allows twice the port density compared to SC connectors.
- Reliable latching:** Secure click mechanism with anti-snag options.
- Uniboot designs:** Single cable carries both fibers, reducing bulk and improving airflow.
- Ruggedized options:** IP-rated LC transceivers for industrial or outdoor use.
- Durability:** Designed for 500–1,000 matings with low optical loss.

Applications LC transceivers are widely used in:

- Data centers:** High-density switch-to-switch or server connections.
- Industrial networks:** Shock, vibration, and temperature-resistant transceivers for mining, petrochemical, and military applications.
- Telecom and enterprise networks:** Supporting Ethernet, fiber channel, ARINC 818, ARINC 664, and sFPDP protocols.
- Media conversion:** Copper-to-fiber or fiber-to-fiber conversion using LC media converters.

Selection Considerations When choosing an LC transceiver, consider:

- Supported protocol and speed (e.g., 1G, 10G, ...)

Article Content

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

Axiom 407-BBZM-AX SFP+ Fiber Optic Network Transceiver Module

Axiom 407-BBZM-AX fiber optic transceiver with 10 Gbit/s speed and 30 km range. Built for high-speed data networks. Order today.

Fortinet FN-TRAN-SFP56-SR Compatible 50GBASE-SR SFP56

Digital Diagnostics Monitoring (DDM/DOM): Integrated 2-wire serial interface allows for real-time monitoring of transceiver operating parameters, including optical power levels and temperature.

AddOn Networks Brocade (Formerly) 10G-XFP-BXD-20 Compatible

This Brocade® (Formerly) 10G-XFP-BXD-20 compatible XFP transceiver provides 10GBase-BX throughput up to 20km over single-mode fiber (SMF) using a wavelength of 1330nmTx/1270nmRx via

Optical fiber connector

An optical fiber connector is a device used to link optical fibers, facilitating the efficient transmission of light signals. An optical fiber connector enables quicker

LC Fiber Optics: A Comprehensive Guide

LC fiber optic solutions encompass a wide range of types and applications, including LC connectors, fiber patch cables, adapters and patch

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.

Axiom 10GBASE-SR SFP+ Transceiver Module Fiber Optic – TRINCOS

This transceiver operates at 10000 Mbit/s and provides a maximum reach of 300 meters, ensuring optimal performance for high-bandwidth applications. Its LC interface and short-range capabilities

Axiom SRX-SFPP-10G-SR-ET-AX 10G Fiber Optic Transceiver –

High-speed data transfer in enterprise networks demands reliable fiber optic connectivity. The Axiom SRX-SFPP-10G-SR-ET-AX transceiver module is tailored for systems requiring up to 10,000 Mbit/s

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

OverviewThe 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

Fiber Optic Transceiver AddOn Networks SFP+ 10Gbps LC 10000m

AddOn Networks SFP+ transceiver offers 10Gbps data rate and 10000m distance. Perfect for enterprise networks. Order today.

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

Cisco SFP and SFP+ Transceiver Module Installation

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These

Cisco 40GBASE QSFP Modules Data Sheet

The Cisco QSFP 40-Gbps BiDirectional (BiDi) transceiver (Figure 1) is a pluggable optical transceiver with a duplex LC connector interface for short

Fiber Optic Connectors | Products | Amphenol

Amphenol 100G CFP/CFP2/CFP4 series optical transceivers support from 10km to 40km reach, adopt LC interface, compatible with IEEE802.3ba, MSA, and other

Global Leader in Materials, Networking, and Lasers

Communications Transform global communications networks with our comprehensive portfolio of coherent transceivers and modules, lasers, amplifiers,

10G BiDi SFP+ TX1490nm/RX1550nm 70KM LC Optical Transceiver

Product Description□10G BiDi SFP+ 1490nm/1550nm 70KM LC Optical Transceiver
This high-performance bidirectional SFP+ transceiver delivers 10Gbps connectivity over 70km single-mode

Axiom SFP Fiber Optic Transceiver 100Mbit/s LC 2000m

Axiom SFP fiber optic transceiver module delivers 100Mbit/s speeds over 2000m. Ideal for network upgrades and expansions. Order today.

Razor Optical Transceiver

The Razor series of fiber optic transceivers with duplex LC connector interfaces support Fast or Gigabit Ethernet, fiber channel, sFPDP, ARINC 818, ARINC 664

Cisco 10GBASE SFP+ Modules Data Sheet

Cisco SFP-10G-LRM module The Cisco 10GBASE-LRM Module supports link lengths of 220m on standard Fiber Distributed Data Interface

CBO SFP-10G-BX-D-40KM-BC-BO fiber SFP+ 10G | AiO.lv

CBO SFP-10G-BX-D-40KM-BC-BO is a fiber optic SFP+ transceiver supporting 10 Gbit/s data rate with LC connector and 40 km transmission range. Designed for single-mode fiber links, it enables high

TeciSoft 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%

StarTech MSA Uncoded SFP Module

Yes Fiber optic connector LC Networking standards IEEE 802.3u Maximum transfer distance 2000 m Wavelength 1310 nm Duplex system Full, Half Maximum data transfer rate 155 Mbit/s Interface type

Common Fiber Connector Types in Optical Transceivers

The LC connector is the most widely used fiber optic connector in modern data center and enterprise environments. It features a small form factor

StarTech 10 Pack Cisco GLC-SX-MM Compatible SFP Module

StarTech Cisco GLC-SX-MM Compatible SFP Module (10 Pack) - 1000BASE-SX - 1GbE Multimode Fiber MMF Optic Transceiver - 1GbE SFP - LC 550m - 850nm DDM Cisco IE3200, IE3300, ME1200

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP 100-Gb SR1.2 Bi-Directional (BiDi) transceiver is a pluggable optical transceiver with a duplex LC connector interface for short

Addon Networks 1442705Pg2-Ao Network Transceiver Module Fiber Optic

SMF, SFP, LC, BX, max. 15 km, 10G, 1550nmTx/1310nmRx, Non-DOM AddOn Networks 1442705PG2-AO. SFP transceiver type: Fiber optic, Interface type: SFP, Fiber optic connector: LC. Product colour:

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 among other networking hardware. It allows fast data transfer

Contact Us

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