Gigabit Fiber Optic Transceiver lc Single Mode



Overview

The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link spans of up to approximately 70 km in length.

Key Takeaways

Single-mode LC SFP transceivers support 1 Gbps data rates over long distances, typically ranging from 10 km to 180 km, and are compatible with major network hardware including Cisco switches and routers. OverviewSingle-mode LC fiber optic transceivers are SFP (Small Form-Factor Pluggable) modules designed for gigabit Ethernet networks. They use single-mode fiber to achieve long-distance transmission and LC connectors for duplex or simplex connections.

These transceivers are hot-pluggable, allowing installation or replacement without powering down network equipment, which simplifies maintenance and network upgrades.

Key Features



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Data Rate: 1 Gbps (Gigabit Ethernet)Fiber Type: Single-modeConnector Type: LC Duplex or LC SimplexDistance Range: Typically 10 km to 180 km depending on the model and wavelength Wavelengths: Commonly 1310 nm or 1550 nm for long-distance linksCompatibility: Works with Cisco, Intellinet, FS, and other MSA-compliant SFP-enabled switches and routers Durability: Metal housing reduces electromagnetic interference and enhances reliability Plug-and-Play: Hot-swappable design for easy installation and network adjustments Popular Models and ApplicationsCisco 1000BASE-LX/LH SFP: Supports single-mode fiber spans up to 10 km and multimode spans up to 550 m with mode conditioning cables.

Cisco 1000BASE-EX SFP: Extends single-mode fiber links up to 40 km with inline optical attenuators for back-to-back connections.

Star

Tech 1310 nm SFP: Designed for 20 km single-mode links, ideal for enterprise and telecom networks.

Lanshack Singlemode SF

Ps: Offer distances from 10 km to 180 km, compatible with Cisco and other major network devices, suitable for data centers and large-scale infrastructures. AdvantagesLong-Distance Connectivity: Ideal for connecting distant switches, routers, or servers in enterprise, data center, or telecom environments. Vendor Flexibility: MSA-compliant SFPs ensure interoperability across multiple brands.

Ease of Maintenance: Hot-pluggable modules reduce downtime during network upgrades or replacements. High Reliability: Metal housings and robust design improve durability and reduce interference. ConclusionSingle-mode LC gigabit SFP transceivers are a cost-effective and reliable solution for long-distance fiber optic networks.

They provide high-speed connectivity, broad compatibility, and ease of deployment, making them suitable for professional environments ranging from enterprise networks to telecom infrastructure.

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Article Content

Gigabit Fiber SFP Optical Transceiver Module

The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link spans of up to approximately 70 km in length. The SFP provides an optical link budget of 21 dB, but the precise link span length

Small Form-factor Pluggable

SFP transceivers are available with a variety of transmitter and receiver specifications, allowing users to select the appropriate transceiver for each link to provide the required optical or electrical reach over

Startech Arista Networks QSFP-40G-SR4 Compatible QSFP

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Used Tripp-Lite N785-001-LC-MM Gigabit Fiber Media Converter

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10Gtek Fiber Patch Cable

10Gtek Fiber Patch Cable - LC to LC OS2 10Gb/Gigabit Singlemode Jumper Duplex 9/125 LSZH Fiber Optic Cord for SMF SFP Transceiver, Yellow, 1.5-Meter (4.9-ft), 2-Pack

Cisco QSFP-100G-FR-S= network transceiver module Fiber optic

Cisco QSFP-100G-FR-S The Cisco QSFP-100G-FR-S Module supports link lengths of up to 2 km over a standard pair of G.652 Single-Mode Fiber (SMF) with duplex LC connectors. The 100 Gigabit

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XFP transceiver

XFP modules use an LC fiber connector type to achieve higher density. Principal applications include 10 Gigabit Ethernet, 10 Gbit/s Fibre Channel, synchronous optical networking (SONET) at OC-192

Single Mode SFP Module | 1.25Gbps 1310nm 20km Transceiver

The Single Mode SFP Module is a high-performance, hot-pluggable transceiver designed for 1.25Gbps data transmission over long distances. It supports up to 20 kilometers on 9/125µm single-mode fiber

SFP Transceiver

Operating at a 1310nm wavelength, it supports 1000BaseLX Ethernet over single-mode fiber for distances up to 10 kilometers. With a TX power of -9.5dBm (min) and RX sensitivity of -20dBm

1000Base-LX SFP Module

MSA Uncoded SFP Module - 1000BASE-LX - 1GbE Single Mode Fiber (SMF) Optic Transceiver - 1GE Gigabit Ethernet SFP - LC 10km - 1310nm - DDM Product ID:

SFP Transceiver

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Utilizing LC connectors and operating at a 1310nm wavelength, it enables high-speed data transmission over single-mode fiber for distances up to 80

1G SFP Transceivers | Mini-GBIC SFP Modules

FS gigabit ethernet transceiver solutions provide fibre or copper options including 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-T etc., from 100m to 160km, for

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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