

Gigabit Fiber Optic Transceiver Ic 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



Data Rate: 1 Gbps (Gigabit Ethernet) Fiber Type: Single-mode Connector Type: LC Duplex or LC Simplex Distance Range: Typically 10 km to 180 km depending on the model and wavelength Wavelengths: Commonly 1310 nm or 1550 nm for long-distance links Compatibility: 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 Applications Cisco 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.

Advantages Long-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. Conclusion Single-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.

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

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.

