

Network Single-Mode Fiber Transceiver



Overview

A single mode SFP transceiver is an optical module that uses laser-based transmission over single mode fiber to deliver long-distance, high-speed data communication, typically at 1310nm or 1550nm wavelengths. SFP (Small Form-factor Pluggable) transceivers are essential components in modern fiber optic networks, enabling network devices such as switches, routers, and servers to transmit and receive data over optical fiber. By converting electrical signals into optical signals—and vice versa—SFP. Single-mode SFP and multimode SFP are the two main types of hot-pluggable optical transceivers used in fiber optic networks. Both of them use LC connectors and are collectively referred to as LC SFP transceivers. Mouser offers inventory, pricing, & datasheets for Singlemode Fiber Optic Transmitters, Receivers, Transceivers.



Article Content

Multimode vs Single Mode Fiber Patch Cords: Which

Find out how to choose between single mode patch cord, lc lc single mode, sc lc single mode, and duplex OM3 multimode fiber for reliable network

Fiber Channel Transceiver Use Cases in Modern SANs

☐☐ What Is a Fiber Channel Transceiver? A Fiber Channel Transceiver (FC transceiver) is a high-speed, hot-swappable optical module used in Storage Area Networks (SANs). It converts

Single -mode fiber transceiver

They are designed to transmit and receive optical signals with high speed and accuracy over long distances, making them ideal for high-speed networking applications. In this article, we will

SFP Transceiver – SFP Single Mode LC Module (10km)

TRENDnet's SFP Single Mode LC Modules are compatible with standard SFP slots found on network switches and fiber converters. Each single mode SFP

AddOn Extreme Networks 10056-80 10056-80-AO | Cendirect

This Extreme Networks® 10056-80 compatible SFP transceiver provides 1000Base-BX throughput up to 80km over single-mode fiber (SMF) using a wavelength of 1550nmTx/1490nmRx via an LC

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

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 right transceiver for Cisco, Juniper, and more.

What is QSFP & QSFP+ Transceiver: An Ultimate

Single Mode QSFP: The SMF type typically features an LC connector and a WDM laser, suitable for 9/125 single-mode fiber cabling, offering a

Juniper Networks CFP-100GBASE-LR4 100Gbps 100GBase-LR4 Single-mode ...

Juniper Networks CFP-100GBASE-LR4 100Gbps 100GBase-LR4 Single-mode Fiber 10km 1310nm LC Connector CFP Transceiver Module | USED CLEAN TESTED

Single Mode SFP Transceiver: Complete Guide Explained

Learn what a single mode SFP transceiver is, how it works, key specs, common types, and real-world use cases for long-distance fiber optic networks today.

Optical Transceivers / SFP Modules – High-Performance Compatible Fiber ...

Comprehensive Optical Transceivers & SFP Module for High-Speed Networks LINK-PP offers a full range of optical transceivers and SFP module for modern data centers, telecom networks, and

Single Mode vs Multimode SFP Modules: Which One to

Single Mode vs Multimode SFP Modules: Compare fiber types, wavelengths, cost, and transmission distance to select the right optical

1 Gigabit Singlemode SFP Fiber Optic Transceivers

These Singlemode SFP Transceivers are designed to meet the needs of various network applications, from data centers to enterprise and telecom networks.

DWDM-XFP-62.23NM-80K Cisco Network Transceiver

DWDM-XFP-62.23NM-80K Cisco 10Gbps 10GBase-DWDM Single-Mode Fiber 80km 1562.23nm Duplex LC Connector XFP Transceiver Module (Refurbished)

Singlemode Fiber Optic Transmitters, Receivers, Transceivers

Mouser offers inventory, pricing, & datasheets for Singlemode Fiber Optic Transmitters, Receivers, Transceivers.

Single-mode vs Multimode SFP: What's the Difference?

Discover the differences between single-mode and multimode SFP transceivers. Learn which one suits your network needs for optimal performance

Cisco® 10G SFP+ Bi-Directional 1310nm/1270nm LC Transceiver

This is an Enhanced Small Form-factor Pluggable (SFP+) transceiver module with maximum data transfer rate of 10 Gbps up to 10km over singlemode fiber cable. It is used in network devices with an

SFP+ Optical Transceiver Modules (10G-SR/LR)

SFP+ Optical Transceiver Modules (10G-SR/LR) Amphenol SFP Optical Modules • SFP+ Optical Modules from Cables on Demand are Now Available in both Short

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

Fully Compliant with OSFP MSA Standards Efficient Hot-Pluggable Design with $\leq 26W$ Power Use Reach Up to 500m via Single-Mode Fiber (SMF) Built-In

SFP Transceiver Single Mode: High-Performance

These modules are designed for single mode fiber (SMF), which enables high-speed data transmission over long distances, typically up to 10 km or more. SFP

Juniper SFP+ 10GBASE LR network transceiver module Fiber optic

SFP+ 10GBASE LR; LC connector; 1310 nm; 10 km reach on single-mode fiber
Quantity: Add to Basket Shipping Made Easy Free Delivery, Every Order Tech You
Trust UK's Leading IT Supplier Quality &

Cisco® Compatible 1000BASE-BX-U BiDi SFP 1310nm/1490nm LC Transceiver

This is a bidirectional Enhanced Small Form-factor Pluggable (SFP) transceiver module with maximum data transfer rate of 1.25 Gbps up to 10km over a simplex singlemode fiber cable. It is used in

Tripp Lite Industrial Gigabit SFP Transceiver 1000Base-LX SMF LC

Tripp Lite Industrial Gigabit SFP Transceiver 1000Base-LX SMF LC Duplex - For Optical Network, Data Networking - 1 x LC Duplex Female 1000Base-LX Network - Optical Fiber - Single-mode - Gigabit

Buy Single Mode SFP Modules for LAN Switches | Planet Shop

Network connections over single-mode fiber require a corresponding SFP module for single-mode. It is important to note that single-mode SFP modules offer high performance and reliability, but require

Cisco GLC-LH-SMD Compatible SFP Module

Cisco GLC-LH-SMD Compatible SFP Module - 1000BASE-LH - 1GbE Single Mode Fiber SMF Optic Transceiver - 1GE Gigabit Ethernet SFP - LC 20km - 1310nm -

StarTech HP JD119B Compatible SFP Transceiver Module

StarTech HPE JD119B Compatible SFP Module - 1000BASE-LX - 1GbE Single Mode (SMF) Fiber Optic Transceiver - 1GE Gigabit Ethernet SFP - LC 10km - 1310nm - DDM HPE 5900, 12500, 5500

Addon Networks Xcvr-S10U27-Ao Network Transceiver Module Fiber

Ciena Compatible TAA Compliant 10GBase-BX SFP+ Transceiver (SMF, 1270nmTx/1330nmRx, 10km, LC, DOM) AddOn Networks XCVR-S10U27-AO. SFP transceiver type: Fiber optic, Maximum data

Contact Us

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