

Single-mode fiber optic transceiver for transmission and reception



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. Singlemode Fiber Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Improve safety, signal integrity, and reliability by using two optical fibers instead of wire to transfer bidirectional serial data using single-mode optical fiber.



Article Content

Transceiver Optical Module Cisco 1.25G SFP 1450nm CWDM

The Duplex LC/UPC interface ensure stable optical connections, and the Single Mode design cuts signal attenuation and dispersion for reliable data reception. As a compact sfp fiber module, it's easy to

SFP-4330 1.25Gbps Single-mode BIDI(WDM) Industrial SFP

The LevelOne SFP-4330 is a high-performance, cost-effective 1.25Gbps BiDi (WDM) Industrial SFP transceiver designed for single-mode fiber for the link up to 20km applications.

Single Mode SFP Module | 1.25Gbps 1310nm 20km

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

Singlemode Fiber Optic Transmitters, Receivers, Transceivers

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

What is a transceiver and how does it work?

What is a transceiver? A transceiver is a combination transmitter/receiver in a single package. While the term typically applies to wireless communications devices, it can also be used for

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

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

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

40mW 1310nm 100G CWDM4 Fiber Optic Transceiver QSFP28

Key attributes Type Fiber Optic Transceivers Connector Type LC Duplex Connector Power Source 3.3V Use Data Center High Speed Optical Interconnect Networ Network 100G Ethernet, Data Center

Transceiver Series Singlemode Fibre Optic Transmitters, Receivers ...

Mouser offers inventory, pricing, & datasheets for Transceiver Series Singlemode Fibre Optic Transmitters, Receivers, Transceivers.

Transceiver Optical Module Cisco 10G SFP+ 1610nm CWDM

The duplex LC/UPC interface lay the foundation for unwavering optical connections, while the Single Mode design slashes signal attenuation, ensuring unerring data reception. This CWDM SFP+ fiber

What Is Fiber Optics? Definition from SearchNetworking

Learn how fiber optics works and why fiber is a common alternative to copper cabling. Also explore the advantages and disadvantages of optical fiber.

Transceiver Optical Module Cisco 10G SFP+ TX1330/RX1270nm

Specifications As a professional transceiver module supplier, AOFPlus is offering 10G SFP+ BiDi fiber transceiver. This bidi transceiver facilitates simultaneous data transmission and reception over a

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.

Transceiver Optical Module Cisco 10G SFP+ 1270nm CWDM

Fiber Optical Transceiver|Optical Module Cisco Compatible CWDM 10G SFP+ 1270nm 40km Duplex LC/UPC Single Mode Specifications 10G SFP+ CWDM fiber module is a workhorse for handling

XVR-10079-20 Arista 100GBASE-PSM4 QSFP Optical Transceiver

Description Arista XVR-10079-20 QSFP28 Optical Transceiver Module Product Overview The Arista XVR-10079-20 is a high-performance 100GBASE-PSM4 QSFP28 optical transceiver engineered for

What is an Optical Module?

Explore the world of optical modules, essential components in optical fiber communication. Learn about the different types of optical modules, their

Reyee XG-SFP-LR-SM1310

SFP+ 10G LR optical transceiver module for single-mode fiber, range up to 10 km, duplex LC connector, digital optical monitoring (DOM), RoHS compliant.

Fiber Optic Cables

Single-mode and Multimode fiber cables are available in simplex and duplex versions, which describe the number of fibers in the cable, not the transmission direction.

Know Your 400G Transceiver | Juniper Networks

Fiber type and reach—The fiber type specifies the type of optical fiber (single-mode or multimode) compatible with 400G transceivers. The reach provides the maximum supported distance or range

SFP1-SM-D Optical single-mode 1310nm 1G SFP transceivers

SFP1–SM–D is a fiber optic transceiver using 1310nm single–mode signals. These standard pluggable SFP optical modules have two LC connectors for reception and transmission over two strands of

Know Your 800G Transceiver | Juniper Networks

Parallel single-mode fiber optics uses multiple single-mode fibers to send separate data streams simultaneously. It supports high-speed transmissions over long distances.

FS SFP28 25G LR: Optimizing Long-Distance

The FS SFP28 25G LR is specifically engineered for long-distance data transmission, delivering a high-speed 25Gbps connection over single-mode

Cables and Accessories

SEL manufactures high-quality fiber optic, ethernet, coaxial, and other cables and accessories. Sized to order and quality tested for reliability and operation.

LonRise Launches TS-OP08-318H-01C: A Next-Generation 800G

The 800G OSFP DR8 optical transceiver (Model: TS-OP08-318H-01C) has officially been introduced by LonRise to address the escalating bandwidth demands of next-generation

SEL-2830 Single-Mode Fiber-Optic Transceiver/Modem

Improve safety, signal integrity, and reliability by using two optical fibers instead of wire to transfer bidirectional serial data using single-mode optical fiber.

Is the Single-Channel HBA Optical Fiber Card QLE3660 the

This article evaluates the Singlechannel HBA optical fiber card QLE3660, concluding it is a reliable 8-Gbps upgrade for legacy 8-Gigabit environments but may bottleneck high-performance or 16-Gigabit

1 Gigabit Singlemode SFP Fiber Optic Transceivers

Our 1 Gigabit Singlemode SFP Transceivers offer high-performance, reliable connectivity for singlemode fiber optic networks. These transceivers are

SEL SEL-2829M EIA-232 Single-Mode Fiber Optic Transceiver New

Part Number 2829M. This SEL-2829M is a professional-grade fiber-optic transceiver designed for converting EIA-232 serial communications to single-mode fiber optic transmission. Ideal for industrial

Fiber Optic Patch Cord, Single Mode & Multimode

Fiber Optic Patch Cord In this category, you will find various duplex and simplex LC/SC/FC/ST/Uniboot LC/MDC fiber optic patchcords, which are used to

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