

Single-mode single-fiber transceiver series



Article Overview

Single-mode single-fiber transceivers are optical modules designed for long-distance, high-speed data transmission over a single strand of fiber, with types including LX, EX, ZX, BiDi, CWDM, and DWDM.

Overview

Single-mode SFP (Small Form-factor Pluggable) transceivers use a laser-based transmission over single-mode fiber (SMF) with a core size of approximately 9 μm , operating at wavelengths typically 1310nm or 1550nm. They are hot-swappable and widely used in switches, routers, and media converters for long-distance links, ranging from 10 km to over 80 km depending on the module type and optical power budget. Single-mode transceivers are ideal for campus backbones, metro networks, and telecom applications due to low attenuation and minimal modal dispersion compared to multimode fibers .

Common Types of Single-Mode SFP Transceivers

- 1000BASE-LX
 - Standard long-range module for Gigabit Ethernet.
 - Typical distance: up to 10 km.
 - Wavelength: 1310nm.
 - Widely supported and cost-effective .
-
- 1000BASE-EX...

Article Content

Singlemode: Transceiver Lösungen & Einsatzbereiche

Entdecken Sie unsere vielfältige Auswahl an Singlemode Transceivermodulen, die speziell für langlebige, zuverlässige und

Arista Optics Modules and Cables

All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper Cables (DACs), Active Optical

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

Singlemode transceiver modules buy online

Singlemode solutions from Fiber24: Comprehensive and modern Discover our diverse selection of singlemode transceiver modules,

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

Singlemode Fiber Optics - Mouser

Singlemode Fiber Optics are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Singlemode Fiber

Transceiver Series Singlemode Fibre Optic Transmitters, Receivers ...

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Singlemode: Transceiver Lösungen & Einsatzbereiche

Singlemode: Transceiver Lösungen von Fiber24. Individuell ideal für große Entfernungen flexibel Hier bei Fiber24 entdecken und

Single Mode BiDi SFP+ Fiber Modules

Single Mode BiDi SFP+ Fiber Modules is a cost effective way to connect a single network device to a wide variety of fiber cable

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

Mini GBIC SFP transceiver LX Single-Mode (10km)

Support for Mini GBIC Connectivity The GVT-0301 SFP Transceiver Series transceivers support LX standard optic with single-mode

Single Mode Fiber Transceivers - Fiber Savvy

Single Mode Fiber Optic Transceivers are essential components in high-speed, long-distance data transfer networks. Their ability to

Single-mode transceiver, Single-mode transceiver module

Single - Mode Fiber-Optic Transceiver /Modem Improve safety, signal integrity, and reliability by using two optical fibers instead of

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[Product Hub] Single Mode SFP Transceiver | Optcore

High-performance single mode SFP transceivers for long-distance networking applications. Find the perfect SFP module for your

Singlemode Fiber Transceiver Modules | Eaton

Need Help Finding Singlemode Fiber Transceiver Modules? Tripp Lite presents a series of Singlemode Fiber Transceiver Modules

SEL-2829 Single-Mode Fiber-Optic Transceiver/Modem

Single-Mode Fiber-Optic Transceiver/Modem Improve safety, signal integrity, and reliability by using two optical fibers instead of wire

Single Fiber Bidirectional SFP Transceivers

Single Fiber Bidirectional SFP transceivers use simplex single-mode fiber to double the bandwidth, data rates up to 4G and

What Is A Single-Fiber BiDi Transceiver?--ETU-LINK

When planning a fiber optic network, one key decision is choosing between single-fiber (BiDi) and dual-fiber optical transceivers. This

Contact Us

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