

Fiber optic transceiver with 1 FC interface single-mode single-fiber



AI Overview

Single-mode, single-fiber FC transceivers are available as SFP modules with FC support, typically using 1310nm wavelength and supporting distances up to 20 km.

Overview A fiber optic transceiver with a single FC interface for single-mode, single-fiber operation is designed to transmit and receive data over a single optical fiber, often using bidirectional (BiDi) technology. These transceivers are commonly used in 1G Fibre Channel (1G FC) or Gigabit Ethernet (GbE) networks, providing cost-effective long-distance connectivity while minimizing fiber usage.

Key Features

- Connector Type:** Many single-mode single-fiber transceivers use FC or LC connectors, depending on the module and vendor.
- Wavelength:** Typically 1310 nm for single-mode operation, suitable for long-distance transmission.
- Distance:** Standard modules can support distances from 10 km up to 20 km over single-mode fiber.
- Form Factor:** Most are SFP (Small Form-factor Pluggable) modules, allowing easy hot-swapping and compatibility with various switches and storage devices.
- Digital Diagnostics:** Many modules provide SFF-8472 compliant digital diagnostics, enabling real-time monitoring of optical power, temperature, and voltage.
- Single-Fiber Operation:** BiDi SFPs allow transmit and receive signals over a single fiber, reducing cabling requirements and simplifying network deployment.

Example Products

- SO-SFP-1000BASE-L20D:** A 1310nm SFP transceiver for single-mode fiber supporting 1G FC and GbE, with a bridgeable distance of up to 20 km and digital diagnostics via a 2-wire serial interface.
- Smartoptics 1G FC BiDi SFP:** Supports single-fiber operation for FTTH or fiber-efficient networking, ideal for cost-effective long-haul connections.
- 16G FC SFP+ LR:** Although higher-speed, this module operates over single-mode fiber with LC duplex connectors and can be adapted for universal optical interfaces using reco...

Article Content

CVI 1080P+ TTL over Fiber Converter Optical Transceiver for Drone

Fiber Wavelength: 1310nm/1550nm Transmission Distance: 0-20 Power Supply: 5.5V-26V (2S-6S Battery) Power Consumption: 5W Communication Interface: SH1.0mm-5Pin (CRSF Interface / CVBS

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

Fiber Optical Transceiver Module Manufacturer,

10G Transceiver BIDI SFP+ designed for bi-directional 10G serial optical data communications. CWDM SFP+ operating at 1270-1610nm CWDM wavelengths

Single Mode Fiber Transceivers – Fiber Savvy

Fiber Savvy has you covered when it comes to quality Single Mode Fiber Transceivers. Single Mode Fiber Optic Transceivers are essential components in high-speed, long-distance data transfer networks.

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Cisco 10GBASE SFP+ Modules Data Sheet

When shorter distances of single-mode fiber are used (<40km), an inline optical attenuator must be used to avoid overloading and damaging the

1.25G 1310nm 20km 1x9 SC/ST/FC Optical Transceiver

They are suitable for Gigabit Ethernet and 1x Fibre channel long-reach applications. This series of 1x9 optical transceivers provide a 20km transmission distance

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The FOA Reference For Fiber Optics

Passive loss is made up of fiber loss, connector loss, and splice loss. Don't forget any couplers or splitters in the link. If the specifications for a type of system or

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8 Best OTDR Fiber Optic Testing Equipment (June

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Lumentum

The 1.6T DR4 OSFP pluggable transceiver prototype uses four Lumentum 400G differential EML lasers, as a stepping-stone to a future 3.2T module. The module provides 4x400

SFP+ LR 16Gb FC Universal Optical Transceiver | GBC

The 16G FC SFP+ LR optical transceiver transmits data over single mode fibre at
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Offizieller BlueOptics SFP Hersteller

Kaufen Sie BlueOptics SFP, SFP+, QSFP und QSFP28 Transceiver, DAC und AOC Kabel direkt ab Lager. Versand heute.

Cisco SFP Modules for Gigabit Ethernet Applications

The 1000BASE-EX SFP operates on standard single-mode fiber-optic link spans of up to 40 km in length. A 5-dB inline optical attenuator should

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The C2G Thunderbolt™ 5 USB-C Cable is Intel®-certified and designed for ultra-fast data transfer, high-resolution video, and powerful device charging.

1.25G 1X9-BIDI

1.25G Gigabit Ethernet BiDi Single-Fiber 1X9 Transceiver Simplex SC / FC / ST (plastic) / ST (metal), 1310nm / 1490nm / 1550nm, Single Mode, 10km~120km

SFP modules – transceivers for 1/2/4G fibre channel

BiDi (Bidirectional) SFP – Single-fiber SFP modules for FTTH and fiber-efficient networking, allowing both transmit and receive signals to travel over a single optical fiber.

1X9 Fiber Optic Transceiver, 1X9 Optical Transceiver

We supply 1X9 Single Mode Fiber Optical Transceiver and 1X9 Multi mode Fiber Optical Transceiver, RoHS compliant fiber optic transceiver modules.

Amazon : Single Mode Sfp

Discover high-performance single mode SFP modules for your network. Compatible with major brands like Cisco, Ubiquiti, and more.

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

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