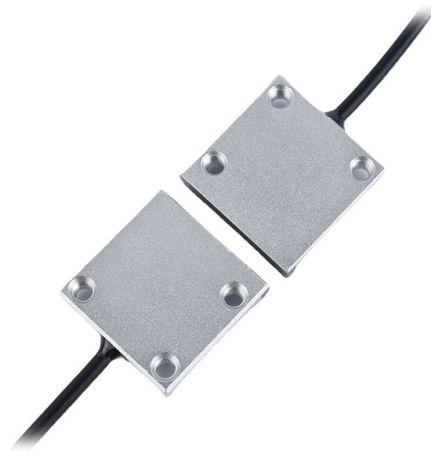


Single-mode single-fiber SC fiber optic transceiver 100Mbps



AI Overview

A single-mode, single-fiber 100Mbps fiber optic transceiver is a hot-pluggable SFP module that transmits Fast Ethernet signals over long distances using a single strand of single-mode fiber. Overview A 100Mbps single-mode fiber optic transceiver converts electrical Fast Ethernet signals into optical signals and vice versa, enabling data transmission over fiber optic cables at 100Mbps. Single-mode fiber is ideal for long-distance links due to its low signal attenuation and high bandwidth potential, making it suitable for distances ranging from 20 km up to 100 km depending on the model and wavelength used (typically 1310nm). Single-fiber (or simplex) transceivers use one fiber strand for both transmitting and receiving data, often employing bidirectional (BiDi) technology to allow full-duplex communication over a single fiber.

Key Specifications

- Data Rate: 100Mbps (Fast Ethernet)
- Fiber Type: Single-mode (9/125 μm core)
- Connector Type: LC is most common
- Wavelength: Typically 1310nm
- Distance Range: 20 km to 100 km depending on the model
- Form Factor: SFP (Small Form-Factor Pluggable), hot-pluggable
- Monitoring: Some models support DDM (Digital Diagnostic Monitoring) for temperature, TX/RX power, and voltage

Applications

- Enterprise Networks: Extending Fast Ethernet links between buildings or across campuses
- Industrial Networks: Connecting data-intensive sites over long distances with high reliability
- Legacy System Upgrades: Integrating with older 100Mbps infrastructure while maintaining fiber connectivity
- Network Backbones: Establishing long-range fiber links where copper cabling is impractical or susceptible to interference

Example Models

- HMS 100Base-FX SFP: Supports up to 100 km over single-mode fiber, LC connectors, 1310nm wavelength
- Planet MFB-F60: 100Mbps SFP transceiver, 60 km maximum distance, 1310nm FP LD, compatible with SFP MSA po...

Article Content

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 to transfer bidirectional serial data using single-mode optical fiber. Apply

MFB-F60 Single Mode, 100Mbps SFP Fiber Transceiver

PLANET's 100Mbps Fast Ethernet SFP Fiber Transceiver utilizes a wavelength of (1310nm) FP LD, which enables a data transmission of up to 2km on a

Multimode vs Single Mode Fiber Optic Cables: A Complete Guide to

Learn the differences between multimode (OM1-OM5) and single mode (OS1-OS2) fiber optic cables—speed, distance, applications, and how to choose the right one for data centers and

Shengwei lc-sc fiber optic patch cord | single-mode dual-core ...

Have you ever tried: gigabit broadband is installed, the router is replaced, but the speed test is stuck at 100mbps? when i checked the "unnoticeable" jumper between the optical modem and

fiber optic switch | Newegg

10GBASE-ER SFP+ Module, 10giga Single Mode SFP 1550nm 40km DDM LC, 10GE Gigabit Network Ethernet Mini GBIC Single-Mode Fiber Optic Transceiver for Cisco SFP-10G-ER, Ubiquiti, Netgear,

Fast, Gigabit, and 10 Gigabit Ethernet Switches with SFP+ Modules

Managed and unmanaged Layer 2 and Layer 3 fiber optic Ethernet switches. With 10G SFP+ fiber optic transceiver modules, they meet your highest bandwidth demand.

WI-MC101M 100Mbps Single Mode Fiber Optic Media Converter

Typical Applications Description what this product does nvert 100BASE-FX fiber to 10/100Base-TX copper media or vice versa. Adopting WDM technology, WI-MC101M takes only one fiber cable to t

10 Best Fiber Optic Media Converters (May 2026)

After three service calls and countless hours troubleshooting, a veteran network tech quietly suggested fiber optic media converters. That single

100 Mb/s Singlemode Transceivers Fiber Optic Transmitters,

Mouser offers inventory, pricing, & datasheets for 100 Mb/s Singlemode Transceivers Fiber Optic Transmitters, Receivers, Transceivers.

Lantronix Simplex SFP Modules | Single-Fiber BiDi, 100Mbps to 10G

Lantronix's Simplex SFP Transceiver modules offer an efficient, single-fiber approach to fiber connectivity, enabling bidirectional data transmission over one strand where cabling resources are

Complete Guide to Choosing the Right 100M Optical

Choose the right 100M optical transceiver by checking compatibility, fiber type, wavelength, distance, data rate, connector, and reliability.

1080P VGA over Single-Mode Single-Fiber Extender up to 20km

1080P VGA Over Single-mode Single-fiber Extender up to 20km VGA Fiber Optic Transceiver with 3.5mm Audio No reviews yet 5 sold certified \$35

100mbps single mode optical fiber transceivers+supplier,HCH

This 100mbps single mode optical fiber transceiver supports 1x10/100Base-T electrical port and 1x100Base-X optical port. It helps users achieve Ethernet data exchange, aggregation, and long

10/100/1000 Mbps Gigabit Single-Mode Fiber Ethernet

These Thor converters are completely transparent when installed, so your network performs exactly as it did previously, but now it can use both copper and fiber

10G X2 ZR Module Guide: Specs, Compatibility & Sourcing

BTON 10G X2 Optical Transceiver Module 1550nm 80KM Fiber Optic Transceivers SMF DDM Single Mode Fiber SC Duplex \$3,510-4,290 5.0(665) MOQ: 1 piece Shenzhen Bton Technology Co., Ltd.

Fiber Optical Media Converter 10/100Mbps RJ45 Single mode 25KM ...

,SC,HTB-3100AB 1pair. An RJ45 ports and a single-fiber SC optical port, to achieve optical signal conversion between 10/100base TX twisted pair. Core optical fiber can be completed in

Module SFP 100M WDM, 20km, Tx/Rx: 1550/1310nm, SC (14dB)

A single-mode optical module with an SFP form factor for Fast Ethernet, compliant with the 100Base-FX standard. Designed to operate on single-mode fiber (SMF), with a maximum distance of 20 km,

SFP Transceiver

It uses LC connectors, operates at a 1310nm wavelength, and supports long-distance data transmission up to 100 kilometers, ideal for extending 100Mbps

What is Optical Transceiver: A Beginner Guide (2024)

What is an Optical Transceiver? An optical transceiver, also known as a fiber optic transceiver or optical module, is a small packaged device that

Fiber Optic Transceiver Guide | PHILISUN

Understand fiber optic transceivers, including form factor, speed, wavelength, reach, connector, coding and cable matching.

SFP Optical Transceiver | SFP Optical Module | Perle

Perle SFP Optical Transceivers are hot-swappable, compact media connectors that provide instant fiber connectivity for your networking gear. They are a cost

SFP & SFP+ Transceiver Modules | 1G, 10G, 25G, 40G

Check out Lantronix's Simplex SFP transceiver lineup — featuring Cisco-compatible and MSA-compliant single-fiber modules spanning 100Mbps to 10G speeds, with

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