

Barbados Single-Fiber Bidirectional SFP



Overview

This SFP module is compatible with various Ethernet switches from major manufacturers and covers most Gigabit Ethernet fiber optic applications for single strand, single mode fiber 9/125um on distances up to 40Km, using Tx:1310nm/Rx:1550nm with a minimum output of. This SFP module is compatible with various Ethernet switches from major manufacturers and covers most Gigabit Ethernet fiber optic applications for single strand, single mode fiber 9/125um on distances up to 40Km, using Tx:1310nm/Rx:1550nm with a minimum output of.

Overview: Understanding the difference between SFP (Small Form-factor Pluggable) and BiDi SFP (Bidirectional SFP) transceivers is crucial for efficient and cost-effective network design. While both are compact fiber optic modules for switches and routers, BiDi SFPs uniquely enable bidirectional. BiDi transceiver, a compact optical transceiver with WDM (wavelength division multiplexing) technology and SFP multi-source protocol (MSA) compliance, allows fast data transmission using a single fiber optic for both sending and receiving signals, saving resources and cutting infrastructure costs. Bi-Directional SFP transceivers use a single strand of fiber to transmit and receive data. Different combinations of wavelengths are available for BiDirectional communications, most used being 1310/1550nm, 1310/1490nm, 1490/1550nm or 1490/1590nm. With support for Fast Ethernet, Gigabit Ethernet, Fibre Channel and legacy protocols such as SDH/SONET and BiDi, SFP. BiDi modules are transceivers that can send and receive at the same time over one fiber cable using two wavelengths.

Article Content

Hot

What Is a Single Fiber SFP? A Complete Guide for Beginners

Learn what a single fiber SFP is, how it works, key differences from dual fiber SFPs, common applications, and how to choose the right BiDi SFP.

Mar 17, 2026 Hot

Cisco 2911 Bidirectional SFP Question

05-17-2016 01:32 PM Thank you for your reply, In fact I need to connect two remote sites about 14km over a single strand of single mode fiber, reason why I need a bi-directional SFP. Generally SFP

Oct 28, 2025 Hot

The Essential Guide to BiDi Transceivers: Everything

BiDi transceiver, a compact optical transceiver with WDM (wavelength division multiplexing) technology and SFP multi-source protocol

Dec 10, 2025 Hot

BiDi SFP: Data in both directions magic, one fiber is enough

For bidirectional data transmission via single-mode fiber optics, the specific properties for separating transmission and reception are used, i.e., the optical windows at 1270 nm and 1330 nm.

Mar 09, 2026 Hot

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 distances up to 160km.

Jul 03, 2025 Hot

Bidirectional SFP Selection Guide for Single-Fiber Links

Single-fiber communication has become increasingly common in environments such as campus networks, metropolitan access networks, and building-to-building connections. In these scenarios,

Nov 23, 2025 Hot

What is BiDi Transceiver: A Beginner's Guide

What is a BiDi Transceiver? BiDi transceiver, or Bidirectional or simplex optical transceiver, is an optical module that uses Wavelength Division

Oct 14, 2025 Hot

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

Single fiber module also called BiDi transceiver or WDM module. It uses WDM technology to realize the bidirectional transmission of optical signals on one

Apr 09, 2026 Hot

BiDirectional Single mode fiber SFP

I have been trying to track down a pair of SFP's to run bi-directionally over a single strand of single mode fiber. I found this model MFEBX1 that will TX at 1310nm and RX at 1550nm, but I

Mar 26, 2026 Hot

ROBOfiber SFP BiDirectional Optical Module, Single Barbados | Ubuy

The ROBOfiber SFP miniGBIC BiDirectional Optical Module is a high-quality optical module that provides reliable and efficient data transmission. With a single strand design and a distance range of

Feb 20, 2026 Hot

1.25G SFP LC Module 1000Base-LX,1310nm SMF Single Barbados

Shop 1.25G SFP LC Module 1000Base-LX,1310nm SMF Single Mode Fiber Optic Module, up to 10 km, Compatible with Cisco, Ubiquiti, Mikrotik, D-Link, Netgear, Qnap, Linksys and More1 Pack online at a

Dec 06, 2025 Hot

1000Base-BX WDM Bi-Directional SFP Module

The TP-LINK's TL-SM321B-2 is developed in accordance with the Small Form Pluggable Multi-Source Agreement (SFP-MSA). As a WDM Bi-Directional optical

Feb 28, 2026 Hot

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

Aug 26, 2025 Hot

The Comprehensive Guide to SFP vs. BiDi SFP in

BiDi SFP: Maximizing Efficiency and Capacity Bidirectional SFP technology stands out as a game-changer, offering the ability to transmit data in

May 16, 2026 Hot

What is the Difference Between SFP and BiDi SFP?

BiDi (Bidirectional) SFP modules solve a critical challenge: fiber scarcity. They achieve full-duplex communication using just one single fiber

Jun 27, 2026 Hot

SFP optical transceivers

The SFP-7120-WB is a BiDirectional single strand fiber Gigabit Ethernet rate SFP transceiver using a 1550nm wavelength laser and a 1490nm photo-diode and reaching up to 120Km distance.

Aug 08, 2025 Hot

Pair of 1.25G BiDi Gigabit Single-Mode Fiber Barbados | Ubuy

Shop Pair of 1.25G BiDi Gigabit Single-Mode Fiber Ethernet Media Converters with 2Pack BiDi SFP LC Modules, 10/100/1000Base-TX to 1000Base-LX, 1310nm/1550nm, Up to 30KM, SMF, 2 Pack online

Jun 16, 2026 Hot

1000Base-BX WDM Bi-Directional SFP Module

With one single-mode fiber, the pair of modules can create a full-duplex gigabit path between your switches, storage devices, and server. The TL-SM321A-2 is

Aug 22, 2025 Hot

BiDi Optical Modules: Unlocking Single-Fiber

Comprehensive guide on BiDi Optical modules, detailing single-fiber bidirectional connectivity, deployment tips, troubleshooting, and multi-speed

May 01, 2026 Hot

BiDi Transceivers For Beyond 100G Fiber Infrastructure

BiDi transceivers offer unprecedented fiber savings and network efficiency. Enhance 1G, to 200G fiber infrastructure with RAD SFP services.

Sep 19, 2025 Hot

Single-fiber Bidirectional Transceivers

Bidirectional transceivers transmit and receive optical signals through a single fiber, saving optical fiber resources. This is useful where fiber resources are scarce and

Dec 05, 2025 Hot

Bidirectional or BiDi Transceivers Explained

Bidirectional (BiDi) transceivers are SFP transceivers that are able to send and receive data on the same fiber. Without BiDi, data can only travel in one direction on a single fiber, meaning each

Jul 01, 2025 Hot

What is the Difference Between SFP and BiDi SFP?

While both are compact fiber optic modules for switches and routers, BiDi SFPs uniquely enable bidirectional data transmission over a single fiber

Sep 16, 2025 Hot

The Complete Guide to BiDi Transceiver

What Is BiDi Transceiver? BiDi transceivers have become synonymous with reliable and high-performance networking, which can achieve

Aug 11, 2025 Hot

BiDi SFP: The Complete Guide to Bidirectional SFP Transceivers and ...

BiDi SFP (Bidirectional Small Form-Factor Pluggable) transceivers have emerged as a powerful solution, enabling full-duplex communication over a single optical fiber. By using

Jun 22, 2026

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