

Single-fiber bidirectional converter



Overview

BiDi modules are transceivers that can send and receive at the same time over one fiber cable using two wavelengths. This full-duplex allows both directions without requiring a separate fiber for receiving. In real networks such as campuses, factories, metro POPs converters let you reuse existing switches and still run fiber for long distance, EMI immunity. Interface & Speed: Seamlessly converts data from 10/100Base-TX copper to Fast Ethernet fiber interfaces. Fiber Connectivity & Distance: Employs single-mode fiber BiDi SC connectors for bi-directional data transfer up to 20km over a single optical fiber. Unlike standard duplex SFPs that require two fibers—one for transmitting (TX) and one for receiving (RX)—BiDi modules integrate a WDM coupler to separate the wavelengths. NO MORE Integration Hassles, simply plug in Ethernet cable to any Ethernet port, whatever speed it is! UPC (Blue) Type Fiber Patch-cords Supported. Only 1 fiber needed - WDM (1310nm/1550nm) wavelengths used WHAT YOU GET: 1 pair (2 units) media converters and FREE UTP Cat5e Patch Cable (1m - 39in). Same BiDi adaptor used on both sides of fiber HyOptic BiDi Adaptor is a Miniature and Passive device.



Article Content

BiDi_Dual fiber to Single Fiber_Adaptor_Duplex to BIDI

Description HyOptic BiDi Adaptor is a Miniature and Passive device. fits any transceiver with LC connectors to perform a simple dual to single bi-directional fiber connectivity. Provide a more

Single-Fiber Bidirectional Transmission and Single-Fiber

Single-Fiber Bidirectional Transmission In this mode, multi-wavelength optical signals are transmitted through only one fiber in both receive and transmit directions. This mode is mainly used on the client

1 Pair RS485 Data Extender Converter 10/100Mbps Ethernet over Single ...

Shrnutí Dual Function Design: Combines 1 bidirectional RS485 data channel + 1 10/100Mbps Ethernet port, simultaneously extending control signals and network data over a single fiber. Long-Distance &

BiDi Optical Modules: Unlocking Single-Fiber

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

Bidirectional SFP Modules/Transceivers

What are Bidirectional SFP Modules? Bidirectional SFP modules are advanced optical transceivers designed to enhance network infrastructure by enabling data

SFP+ transceiver CBO SFP-10G-BX-D | AiO.lv

Buy CBO SFP-10G-BX-D SFP+ 10G fiber transceiver for single-fiber bidirectional links. Order for reliable network upgrades with delivery in Riga, Latvia and the EU.

Single vs Dual Fiber Media Converters (2025): A/B

Whether you choose single-fiber BiDi for fiber savings or dual-fiber for simplicity, the fundamentals are the same: match speeds and wavelengths, plan

Transceiver CBO SFP-10G-BX-D 10G SFP+ | AiO.lv

Short description CBO SFP-10G-BX-D is a fiber-optic SFP+ transceiver supporting 10 Gbps bidirectional transmission over a single fiber. Designed for data center and carrier networks, it enables duplex

FVT-2202 BIDI Fast Ethernet Media Converter Set,

Interface & Speed: Seamlessly converts data from 10/100Base-TX copper to Fast Ethernet fiber interfaces. Fiber Connectivity & Distance: Employs single-mode

The Essential Guide to BiDi Transceivers: Everything

How Does BiDi Transceiver Work? BiDi transceivers, short for Bidirectional Small Form-Factor Pluggable transceivers, operate based on the

Optical Fiber: Single-Mode Multimode Single-Fiber Dual

Single-fiber vs. dual-fiber refers to how many fiber strands are used to send and receive data. In this guide, we'll explain each of these clearly and

10G Bidirectional Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a simplex LC UPC connector.

Single Mode SC WDM Single Fiber Bi-Di Gigabit Media

Extend your Gigabit or Fast Ethernet Network Over Single Mode Single Fiber Up to 20 km (12.42 miles) using 1310 nm/1550nm & 1550/1310nm With Ease - and

Difference Between Single and Dual Fiber Optical

Fiber optic technology has seen incredible growth over the past several years and will likely experience even more expansion over time. There

1000Base-BX WDM Bi-Directional SFP Module

TP-LINK's TL-SM321B-2 and TL-SM321A-2 is designed to work in a pair to create an on-site gigabit fiber communication up to 2km (2,000 meters). With one single

WDM Media Converters | Bi-Di Communication over a Single Fiber

A Wave Division Multiplexing (WDM) Media Converter, can extend Copper to Fiber, Multimode to Multimode and Multimode to Single Mode Fiber over one Single Fiber Strand, known as Simplex.

World's First Demonstration of Single-Fiber Bidirectional

By combining a prototype of a next-generation optical line system developed by OKI with the hollow-core fiber (*2) developed by the Lightera

BIDI Fiber Media Converter, Singlemode, SFP Slot, LC Simplex

This compact device enables simultaneous data transmission and reception over a single fiber strand by leveraging distinct light

Secure & Reliable Fiber Optic Connectivity Solutions

Versiton specializes in designing and manufacturing copper-to-fiber connectivity solutions tailored for data, voice, and video applications across diverse

WDM Media Converters | Bi-Di Communication over a Single Fiber

Perle offers an extensive range of WDM Media Converters to connect 10Mbps, 100Mbps, 1G, 2.5G or 10G Ethernet links over Multimode or Single Mode Single Strand Fiber using SFP, SC, or ST

1 Pair RS485 Data Extender Converter 10/100Mbps Ethernet over Single ...

Leírás és részletek Összefoglaló Dual Function Design: Combines 1 bidirectional RS485 data channel + 1 10/100Mbps Ethernet port, simultaneously extending control signals and network data over a single

Generation of asynchronous cylindrical vector pulses based on a ...

Bidirectional mode-locked lasers generating counter-propagating pulses within a single cavity represent a key strategy for dual-comb sources. Capitalizing on the unique optical properties

Fiber Linker (@alston_yuan) / Posts / X

12G-SDI fiber converter over SMPTE FUW-PUW cableFeatures : 2-ch bidirectional 12G, 2-ch forward SYNC, 2-ch 10G Ethernet, over SMPTE, one 2U rack with SMPTE FXW, 4 stand alone

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 guide from ETU-Link explains

RF over Fiber (RFoF) Converter and RF Bands | RFOptic

RF over Fiber Converter modules convert RF signals to optical signals and vice versa for applications in 5G, GPS, broadcast & more.

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

Contact Us

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