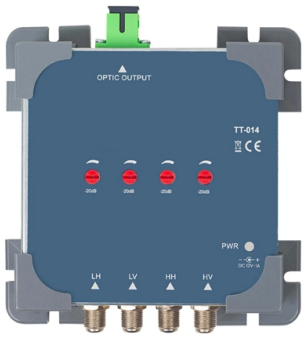
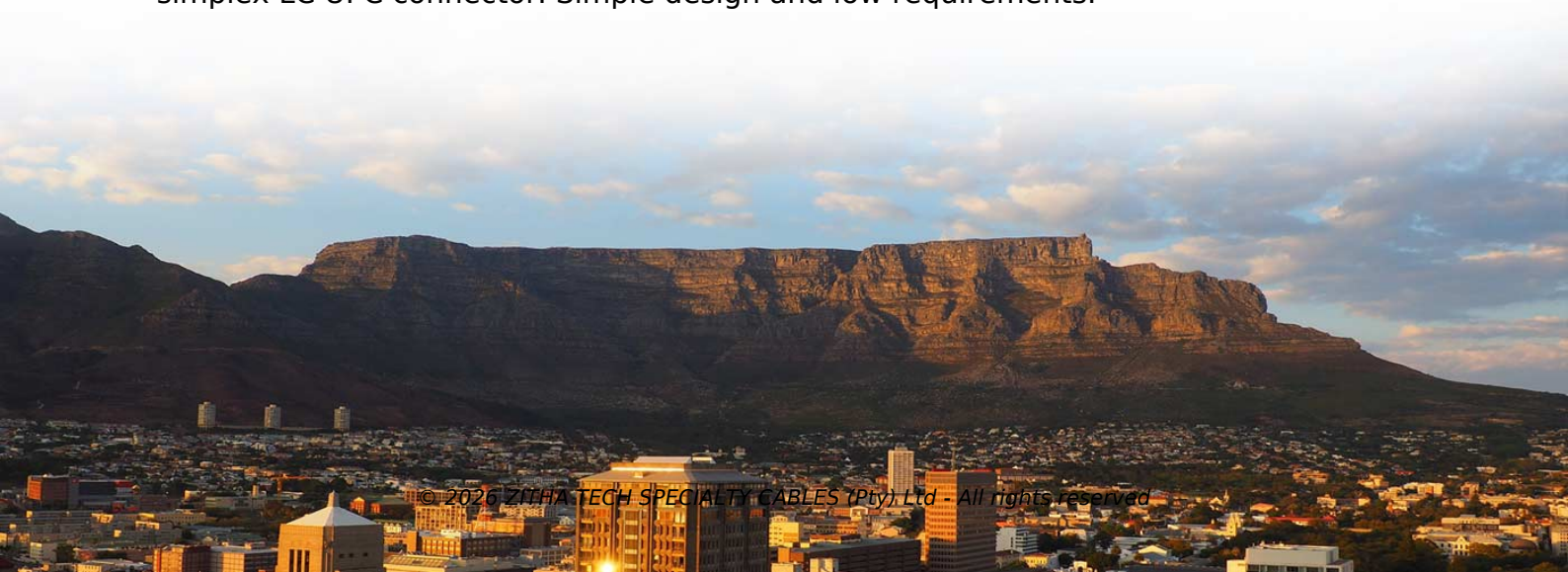
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Single-fiber bidirectional wide-beam module



Overview

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. 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. 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. BiDi optical modules can do this by utilizing full-duplex communication over a single fiber strand via two wavelengths. The HighPower BIDI® components consist of a FP of DFB laser and PIN diode or APD digital receiver as well as integrated WDM filter for dual wavelength Tx/Rx operation. The emitter. SFP transceiver that supports 1G connections up to 3 km using single-mode fiber with a simplex LC UPC connector. Simple design and low requirements.



© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Article Content

Bi-directional optical modules (BIDIs)

The HighPower BIDI® is a bi-directional optical component designed for full duplex communication over a single fiber. The HighPower BIDI® components consist of

Single-Fiber Bidirectional Transmission and Single-Fiber

Convenient O&M, and flexible networking that facilitating upgrading and capacity expansion. In this mode, multi-wavelength optical signals are transmitted through only one fiber in both receive and

100G QSFP28 BiDi Optical Module: Features, Benefits, and Use Cases

The 100G QSFP28 BiDi optical module enables 100G high-speed interconnects via single-fiber bidirectional transmission without adding more fibers, making it an ideal solution that balances

BWN 1x9 Module BIDI ST

The BWN-BIDI-ST is a compact fiber optical transceiver module that enables bidirectional data transmission over single-mode fiber with distances up to 80KM using WDM technology for efficient

Single Fiber (BiDi)

Teroline single fiber bidirectional SFP module for Gigabit Ethernet applications over single mode optical fiber. The module can be used with any network device that accepts standard MSA transceivers -

BiDi Optical Module: Features And Applications

What is a BiDi Optical Module? A BiDi (Bidirectional) optical module adopts WDM (Wavelength Division Multiplexing) bidirectional transmission technology, enabling simultaneous

Comprehensive Guide to FS 10G BiDi SFP Modules

Enter the 10G BiDi (bidirectional) SFP+ module —an elegant solution that enables full-duplex communication over a single fiber strand using wavelength division multiplexing (WDM). FS

BiDi Single-Fiber Bidirectional Optical Module Details

The interface of optical module is mainly divided into single-fiber bidirectional BiDi, dual-fiber bidirectional (Deplux) and other types. In WDM system, the line transmission method mainly

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

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

Understanding BIDI SFP Optical Transceiver Module:

A BIDI SFP optical transceiver module, one of the key elements of this field, facilitates the simultaneous sending and receiving of data over a single

Single Fiber vs Dual Fiber in WDM Systems: Which Architecture Is

□□ What Is Single-Fiber WDM and How Does It Work? Single-fiber WDM (also known as bidirectional or BiDi WDM) uses one physical optical fiber strand to transmit and receive signals

BiDirectional Single mode fiber SFP

2-channel 1000BASE-BX10-D for Single-Fiber Bidirectional Applications The 2-channel 1000BASE-BX-D SFP module, also known as Compact SFP, integrates two IEEE 802.3ah

Single Fiber vs Dual Fiber Transceivers Understanding

Single fiber transceivers, like the Bidi Transceiver, use one fiber for bidirectional data, while dual fiber transceivers require two fibers for separate TX

High Power, Monolithic, PM Fiber Amplifiers for Coherent Beam

Beam combining schemes have been demonstrated with the intention of taking these fiber laser building blocks to the level of 10''s of kilowatts [6,7]. These systems will require field-deployable, monolithic,

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Contact Us

Continue your research online:

Website: https://zithatech.co.za
Technical inquiry: https://zithatech.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved