

Dual-fiber bidirectional pigtail type optical transceiver module



Article Overview

A dual-fiber bidirectional pigtail type optical transceiver module uses two separate fibers for transmitting and receiving data, offering stable, high-bandwidth communication with reduced insertion loss and improved coupling efficiency.

Overview

Dual-fiber bidirectional pigtail type optical transceivers are designed to transmit and receive optical signals over two separate fibers—one dedicated to transmission (Tx) and the other to reception (Rx). Unlike single-fiber BiDi transceivers, which use wavelength division multiplexing (WDM) to send and receive data over a single fiber, dual-fiber modules provide higher stability and minimal signal interference, making them ideal for backbone networks, data centers, and enterprise environments where reliability and bandwidth are critical ().

Design and Structure

These modules typically include:

- Casing: Provides mechanical protection and EMI shielding.
- Steel ladle needle connecting seat: Ensures secure coupling between the pigtail fiber and the module.
- Optic fiber lock pin: Maintains precise alignment and stable connection with the tail fiber....

Article Content

Difference Between Single vs Dual Fiber Optical Transceivers

1-From the appearance: They differ in the number of ports. The dual type has two ports, while the single type has just one. 2-About

OptoIC Products Brochure

This design guide provides the information needed to incorporate OptixCom's fiber optics transceiver products in the customer's

Arista 400G Transceivers and Cables: Q& A

What is the reach, fiber type, connector, and optical modulation for each 400G transceiver type? The table and block diagrams below

Bidirectional SFP Modules/Transceivers

We manufacture a range of bidirectional SFP transceivers for applications supporting data transfer rates of 10/100/1000Mbps,

Understanding BIDI SFP Optical Transceiver Modules

Discover BIDI SFP optical transceivers, the single-fiber bidirectional modules that optimize fiber usage. Learn how they

Double-fiber bidirectional tail fiber type digital optical transceiver ...

The utility model discloses a two-way tail optical fiber type digital optical transceiver module of double fiber, this two-way tail optical

BiDi SFP Module: A Complete Guide for Fiber Networks

A BiDi SFP module is a bidirectional fiber optic transceiver that enables simultaneous transmit and receive over a single strand of

Optical Transceiver Module

The deployment of BiDi optical transceivers instantly doubles the bandwidth capacity of the existing optical fiber infrastructure. The

Contact Us

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