

Huijue Single-Fiber Bidirectional Optical Module Wavelength

SUPPORTS DIN RAIL INSTALLATION



Overview

Wavelength: TX 1330nm / RX 1270nm Distance: Up to 40km Connector Type: LC (Lucent Connector) Transmitter Receiver Characteristics: Data Rate: 10Gbps Wavelength Tolerance: ± 0.5 nm Output Power: 3 dBm to +3 dBm (typical) Receiver Sensitivity: 21 dBm to 12 dBm (typical) Dispersion. The Huawei 02311BJB SFP 10G ER SM1330 BIDI Optical Module is a high performance SFP+ (Small Form factor Pluggable Plus) transceiver designed for 10 Gigabit Ethernet applications. This module is specifically engineered to support long haul single mode fiber connections, with a transmission distance. 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. BiDi transceivers transmit optical signals at one wavelength and receive them at a different wavelength, allowing for bi-directional. The WDM system supports two transmission modes: single-fiber unidirectional and single-fiber bidirectional. For example, SFP-10G-BXD1 must be used with SFP-10G-BXU1. Wuhan Unique Mechanical And Electrical Equipment Co.

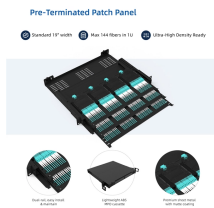
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The 100G QSFP28 BiDi CWDM4 transceiver supports connections up to 2km over single-mode fiber and uses LC connectors. The wavelengths are 1271 nm, 1291 nm, 1311 nm, and ...



The 25G BiDi SFP28 transceivers are designed to enable bi-directional 25G serial optical data communications using either 1270nm/1330nm wavelengths. These modules are ideal for use in 25G ...



Inside the single fiber SFP module, a WDM optical component—often a thin-film filter or prism—is used to combine and split wavelengths. When the module transmits data, the electrical signal from the ...



Wavelength: The module features a bidirectional (BiDi) design with a transmit wavelength of 1310 nm and a receive wavelength of 1490 nm. This allows for simultaneous transmission and reception on a ...



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 ...



BiDi optical module is equipped with a wavelength division multiplexer (WDM) coupler, that is, a duplexer, which converges and separates data transmitted on a single optical fiber based on ...



By using Wavelength Division Multiplexing (WDM), BiDi SFP modules transmit and receive data on two different wavelengths, cutting fiber usage in half without sacrificing performance.



It operates in the 10G BiDi (Bidirectional) Single Mode configuration, which means it can transmit and receive signals over a single fiber strand, thanks to its TX (transmit) wavelength of 1330nm and RX ...



Paired BiDi modules multiplex and demultiplex the two wavelengths onto a single fiber, allowing for simultaneous bidirectional data flow effectively. ...



In the wavelength division multiplexing system, the line transmission methods mainly use single-fiber unidirectional and single-fiber bidirectional. In this article, ETU-LINK will focus on ...



Note: Single-fiber bidirectional (BiDi) optical modules must be used in pairs. For example, SFP-10G-BXD1 must be used with SFP-10G-BXU1.



Paired BiDi modules multiplex and demultiplex the two wavelengths onto a single fiber, allowing for simultaneous bidirectional data flow effectively. This practical design reduces cabling ...



BiDi technology challenges this conventional architecture by using Wavelength Division Multiplexing (WDM) principles to achieve bidirectional communication on a single fiber.

Contact Us

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