

Wavelength of Dual-Fiber Optic Module



Overview

Dual 1G SFP fiber module operates at 850nm, 1310nm, and 1550nm wavelengths. All SFP transceivers must be used by pairs. For common SFPs, we should connect the two SFPs which have the same wavelength together. 850nm, 1310nm, 1550nm are the common wavelengths of 1G dual fiber modules. This fiber port utilizes a Bidi Transceiver, short for bidirectional transceiver, operates by transmitting and receiving data over a single fiber using two distinct wavelengths. Common wavelength of BIDI optical module SFP BIDI:TX1310nm/RX1550nm; TX1550nm/RX1310nm;TX1490nm/RX1550nm; TX1550nm/RX1490nm;TX1310nm/Rx1490nm; TX1490nm/Rx1310nm. The front panel is usually labeled TX and RX, and you cross-connect TX→RX, RX→TX with a duplex patch cord. Use one fiber strand for both directions simultaneously.

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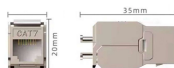
Length:14.5mm
Small-end inner diameter:2.0mm
Large-end inner diameter:3.5mm
Outer diameter:5.2mm



The 1310nm LC Interface 10G Singlemode Dual-fiber Optical Module is the workhorse of the modern network. It combines speed, distance, and reliability into a compact package.



Both sides transmit and receive at the same wavelength (common values: 850 nm MM, 1310 nm/1550 nm SM). The front panel is usually labeled TX and RX, and you cross-connect ...



Dual fiber: Both ends of the equipment use 10G SFP+ dual fiber optical modules with a wavelength of 1310nm. Single fiber: One end device uses 1270/1330nm module, and the other end ...



Single Fiber: Typically shorter reach compared to dual fiber, ranging from 2km to 120km, depending on the specific module. Dual Fiber: Generally offers longer transmission distances, reaching up to ...



In fiber optic networks, accurately identifying the wavelength of an optical transceiver module is essential for ensuring optimal network performance and reliability. One of the most ...



Both sides transmit and receive at the same wavelength (common values: 850 nm MM, 1310 nm/1550 nm SM). The front panel is usually labeled TX ...



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 their differences, advantages, and how to ...



What is a Dual Fiber Optical Transceiver? A dual fiber optical transceiver uses two separate fibers—one for transmitting and the other for receiving data. This design ensures higher ...



Enables full-duplex communication over dual fibers or bidirectional (BiDi) transmission over a single fiber using different wavelengths. Extends data transmission over long distances, from ...



Dual fiber: Both ends of the equipment use 10G SFP+ dual fiber optical modules with a wavelength of 1310nm. Single fiber: One end device uses ...



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



Both transmitting and receiving need one optical fiber to connect. 850nm, 1310nm, 1550nm are the common wavelengths of 1G dual fiber modules. Simplex SFP modules, also known as BIDI ...



Enables full-duplex communication over dual fibers or bidirectional (BIDI) transmission over a single fiber using different wavelengths. Extends data ...

Contact Us

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