

India Single-Fiber Bidirectional QSFP



Article Overview

Single-fiber bidirectional QSFP transceivers enable high-speed 40G and 100G connectivity over a single optical fiber, optimizing fiber usage and supporting both short- and long-distance network deployments.

Overview

Single-fiber bidirectional (BiDi) QSFP transceivers allow simultaneous transmit and receive signals over a single fiber, reducing cabling requirements and enabling network upgrades without installing additional fiber. These modules are widely used in data centers, enterprise networks, and edge access networks where fiber resources are limited.

100G Single-Fiber BiDi QSFP

- Cisco QSFP-100G-B20U4-I / QSFP-100G-B20D4-I: Provides 100Gbps full-duplex connectivity over single-mode fiber up to 20 km. Operates in the O-band to minimize fiber dispersion and uses NRZ modulation. Each transceiver has 4 transmitters and 4 receivers, and they operate in pairs for full-duplex communication. Using two pairs can achieve 200Gbps bandwidth and network resiliency .
- Walsun 100G QSFP28 ZR4 BIDI: Supports single-fiber bidirectional transmission up to 80 km using a 4x25G NRZ scheme. Designed for long-distance, low-latency applications, including interconnection between cities, regional data centers, and 5G convergence rooms. Power consumption is under 6.5W, and it supports industrial-grade temperature ranges .

40G Single-Fiber BiDi QSFP

Article Content

Cisco 40/100Gb QSFP100 BiDi Pluggable Transceiver

The Cisco QSFP 40/100 Gb dual-rate BiDi transceiver can function as a 40Gb BiDi, matching its reach of 100m and

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

100G QSFP28 Single Fiber (BiDi) Modules: Technology, Benefits ...

Understand 100G QSFP28 single fiber (BiDi) modules—how they work, benefits vs. duplex 100G, deployment

What is BiDi Transceiver: A Beginner's Guide

What is a BiDi Transceiver? BiDi transceiver, or Bidirectional or simplex optical transceiver,

QSFP28 Transceiver: Complete 100G Connectivity

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment.

Turning Dual to Single Fiber for 50% Fiber Savings

RAD's BiDi QSFP adaptor is a passive, small-factor dual to single fiber adapter that can be plugged into existing SFPs, providing

Cisco QSFP-40G-SR-BD 40GBASE-SR-BiDi QSFP+ Optical

Cisco QSFP-40G-SR-BD – 40GBASE-SR-BiDi QSFP+ Optical Transceiver Module Short Description: The Cisco QSFP-40G-SR-BD

Ultimate QSFP Transceiver Guide: Types (40G/100G)

Confused by QSFP types? Decode the differences between QSFP+, QSFP28 (100G), and QSFP-DD.

Cisco SFP & QSFP Transceivers India | Next Gen Networks

Buy Cisco optical transceivers in India including CFP2-100G-LR4, QSFP-40G-UNIV & CWDM-SFP-1570. Bulk pricing. Get a quick

40G BiDi QSFP+: Single-fiber Bidirectional Transmission

The interfaces of optical modules are mainly divided into single-fiber bidirectional BiDi and dual-fiber bidirectional

QSFP-40G-SR-BiDi vs QSFP-40G-SR4, Which to Choose?

The short-distance transmission solution of the QSFP-40G-SR-BD optical module can reuse the existing 10G fiber

ETU-LINK 100G QSFP28 BiDi Optical Module Overview-ETU-LINK

ETU-LINK 100G QSFP28 BiDi optical module came into being. It uses single-fiber bidirectional transmission

Comprehensive Guide to 100G BiDi QSFP28 Transceivers | FiberMall

The demand for high-speed, cost-effective, and fiber-efficient optical transceivers has surged with the growth of data

40G QSFP+ SR BiDi for Cisco QSFP-40G-SR-BD, Meraki MA-QSFP

Fiber Mall for Cisco QSFP-40G-SR-BD-CM compatible QSFP+ Optical Transceiver Module is designed for use in 40GBASE

Cisco QSFP-100G-B20U4-I and QSFP-100G-B20D4-I 100G 20km

Whether it's building a network or upgrading an existing network, the Cisco® QSFP-100G-B20U4-I and QSFP-100G-B20D4-I

SFP Optical Transceiver Products | Syrotech Networks

Syrotech Networks is market leader in manufacturing and supplier of sfp module, optical transceiver, sfp port, sfp optical

40G QSFP+ SR BiDi VCSEL 850nm/900nm 150m MMF

FIBERSTAMP 40G QSFP+ SR BiDi optical transceiver is designed for short-distance interconnection

The Ultimate Guide to BiDi Transceiver

The full name of BiDi is Bi-Directional. BiDi transceiver (Bi-Directional transceiver) is a kind of special optical

Dual to Single Fiber Solutions | RAD BiDi QSFP28 DD Adaptor

RAD offers dual to single fiber solutions for high-speed, reliable networks. Explore our BiDi QSFP28 adaptors for seamless connectivity.

100G Over Single Fiber, Simplified | ProLabs

Our QSFP28 Bidirectional (BiDi) transceivers deliver high-speed 100G connectivity over a single strand of fiber, with

QSFP 40G SR BD: 40G QSFP+ BiDi Transceiver Explained

Summary: QSFP-40G-SR-BD is a fiber-saving 40G solution that combines short-reach multimode operation with bidirectional

Finisar QSFP MODULE FTLC1154RDPL, Fiber Type: Single Mode,

Finisar FTLC1154RDPL is a high-performance 100G QSFP28 optical transceiver designed for long-reach 100 Gigabit Ethernet links.

40GBASE-SR Bi-Directional QSFP+ 832nm

It is a Four-Channel, Pluggable, LC Duplex, Fiber-Optic QSFP+ Transceiver for 40 Gigabit Ethernet Applications. This transceiver is

Industry's First 100G ZR QSFP28 for Bi-Directional Application

The Coherent 100G ZR QSFP-DCO is the industry's first dual laser QSFP28 digital coherent optics (DCO) module for

40G BiDi QSFP+: Single-fiber Bidirectional Transmission

The YXF-QP-M85L-01D is a four-channel pluggable LC duplex QSFP+ fiber optic transceiver for 40 Gigabit Ethernet

Bidi single fiber bidirectional optical module, all you want to know is ...

40G QSFP + bidi dual fiber bidirectional optical module is a special bidi optical module, which is designed with LC

Contact Us

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