

Inquiry for Single-Fiber Bidirectional QSFP



Overview

The QSFP28 BiDi transceivers are 100 Gbit/s pluggable modules for data communications such as 100GBASE Ethernet on one single mode fiber. 25 Gbps, using different wavelengths in each direction. It enables 40GbE transmission with only two fibers, making it a practical alternative to QSFP-40G-SR4 in environments where fiber resources are limited or MPO. Single fiber QSFP28 modules (commonly called BiDi transceivers) enable full-duplex 100G communication over a single optical strand. Tx wavelength — one. SAXONBURG, PA, September 26, 2025 (GLOBE NEWSWIRE) – Coherent Corp. (NYSE: COHR), a global leader in photonics, announces the industry's first QSFP28 Dual Laser 100G ZR solution that enables broadband providers to efficiently maximize capacity on existing fiber infrastructure. By enabling bidirectional transmission over a single fiber, this module enhances fiber utilization efficiency and can reduce fiber costs. ZR4 BiDi, using four. This document provides an overall description of the CE5800&6800&7800&8800 series switches hardware that versions earlier than V200R020C00, helping you obtain detailed information about each chassis, power module, fan module, card, cable, and pluggable modules for ports.

Article Content

BiDi Transceivers For Beyond 100G Fiber Infrastructure

RAD has developed the patented BiDi QSP adaptor to solve the issue of making the transition from dual-fiber optical transceivers to single-fiber

QSFP-100G-SR1.2 vs. QSFP28-BIDI-100G: Choosing

Explore the key differences between the QSFP-100G-SR1.2 and QSFP28-BIDI-100G. Learn how to select the best module based on fiber

Fiberworks Data Sheet

The QSFP28 BiDi transceivers are 100 Gbit/s pluggable modules for data communications such as 100GBASE Ethernet on one single mode fiber. The transceivers operates with one PAM4 data

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

Understand 100G QSFP28 single fiber (BiDi) modules—how they work, benefits vs. duplex 100G, deployment considerations, and recommended LINK-PP solutions. Practical guide for

QSFP28 100G BiDi Optics: Halve Your Fiber Capacity,

QSFP28 100G BIDI modules enable 100G Ethernet over duplex LC fiber, offering bidirectional transmission, compact size, and simplified cabling.

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 150m over OM3 and OM4 multi

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

Whether it's building a network or upgrading an existing network, the Cisco® QSFP-100G-B20U4-I and QSFP-100G-B20D4-I transceivers provide 100G connectivity for platforms at up to 20km on single

Cisco 400G Digital Coherent BiDi CFP2 Data Sheet

Cisco is now offering the new Cisco 400G Digital Coherent BiDi CFP2 capable of supporting single-fiber bidirectional coherent transmission.

Optical Transceiver Buying Guide: SFP/QSFP Explained for

Understanding Fiber Compatibility: Single-Mode vs Multimode The choice between single-mode fiber (SMF) and multimode fiber (MMF) directly impacts the optical transceiver type: Multimode

Introduction of QSFP-40G-SR-BD Modules

QSFP-40G-SR-BD operates on two different wavelengths, enabling stable transmission over a single fiber strand for both directions. It utilizes duplex OM3 or OM4 MMF connections for a 40

QSFP-40G-SR-BD (Single-Fiber-Bidirectional Module)

This document provides an overall description of the CE5800& 6800& 7800& 8800 series switches hardware that versions earlier than V200R020C00, helping you obtain detailed information about

Product Specification

Description The 40G-QSFP-SR-BD is a high-performance, four-channel, pluggable QSFP+ transceiver designed for short-range duplex data communication and interconnect applications in 40 Gigabit

100G QSFP28 ZR4 Bidi Make 100G/40G Single Fiber 80km Distance

This product is an improved version of the dual-fiber 100G QSFP28 ZR4 transceiver that uses two fibers, and it achieves bi-directional data transmission in both the upstream and

Introduction of QSFP-40G-SR-BD Modules

QSFP-40G-SR-BD, part of the QSFP optical transceiver module family, facilitates high-speed data transmission in networking environments. It's

Introduction About BiDi SFP and BiDi Fiber

How Does BiDi SFP Work? As the above-mentioned introduction about BiDi SFP, we have learned the modules separate different transmission

100G BiDi QSFP28 Modules

100G BiDi QSFP28 modules enable 100G Ethernet over a single fiber by using bidirectional wavelengths, reducing fiber use, cutting costs, and simplifying high-speed network deployment.

100G QSFP28 BIDI 30KM

The STC-QSFP28-BIDI-30KM is a high-performance 100G transceiver module using BiDi (Bidirectional) transmission technology, enabling simultaneous sending and receiving over a single fiber strand.

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

QSFP-40G-SR-BD achieves 40GbE full-duplex transmission over a single pair of multimode fibers by using bidirectional (BiDi) optical signaling, where two separate wavelengths carry transmit and

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 single fiber, bi-directional applications – a breakthrough for

40G BiDi QSFP+ 150m MMF | Two-Fiber | EDGEOPTIC

EDGEOPTIC 40G BiDi QSFP+ transceiver: 150m OM4 multimode fiber, 850/900nm wavelengths, 2dB link budget, 41.25 Gbps. Two-fiber 40G solution, 0-70°C.

QSFP-40G-BiDi vs QSFP-40G-SR4, which to choose?

Unlike QSFP-40G-SR4, QSFP-40G-SR-BD has four 10Gbps signal channels which are converted to two bidirectional channels of 20Gbps signals.

100G QSFP28 BiDi : Optical Transceiver Module | NEC

NEC's 100G QSFP28 BiDi optical transceiver enables the transmission and reception of 100Gb/s high-speed data over a single optical fiber. By enabling bidirectional transmission over a single fiber, this

What is BiDi Transceiver: A Beginner's Guide

What is a BiDi Transceiver? BiDi transceiver, or Bidirectional or simplex optical transceiver, is an optical module that uses Wavelength Division

The Ultimate Guide to QSFP Cables

For example, a QSFP-100G-LR4-S transceiver uses four 25G lanes multiplexed over single-mode fiber to achieve 100G line rate, as explained in

Contact Us

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