

Belarusian Single-Fiber Bidirectional QSFP



Overview

The QSFP28 transceiver provides 100GBase-BX throughput up to 20km over single-mode fiber (SMF) using a wavelength of 1310nmTx/1280nmRx via an LC connector. This bidirectional unit must be used with another transceiver or network appliance of complimenting wavelengths. 1;Maximum receiver sensitivity (dBm):-16. 2;Fiber Type:Single-mode Simplex Fiber;Temp. Range:C/E;Type:Fiber Optic Transceivers;Network:Wireless. 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. 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. Our QSFP28 Bidirectional (Bidi) transceivers delivers high-speed 100G connectivity over a single strand of fiber, with reach options up to 70km and support for both standard and industrial temperature environments.

Article Content

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.

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 signaling. It sits between traditional SR4 and LR4 modules, offering

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

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

Bidirectional 100Gb on a single fiber 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

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

This product converts XLPI 4x10G signals into two 20G signals and achieves 40G total bandwidth transmission over two single-fiber bidirectional channels. Each

40/100G Four-Channel Small Form (QSFP) Optical Transceivers

OptixCom's 40 Gb/s QSFP+ is a 4-lanel parallel pluggable fiber optics transceiver designed with advanced 850 nm VCSEL laser arrays and high speed electronics to achieve the optimum

Single-Fiber-Bidirectional Module 100G QSFP28 40km BIDI LR1

Distance: 40km Transmit power (dBm): 1.5 to 7.1 Maximum receiver sensitivity (dBm): -16.2 Fiber Type: Single-mode Simplex Fiber

Introduction to 100G QSFP28 Bidirectional Transceivers

TARLUZ 100G QSFP28 Bidirectional transceivers are a cost saving solution for building a network or upgrading an existing network, the transceivers provide

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

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

Comprehensive Guide to 100G BIDI QSFP28

Unlike traditional transceivers that require two fibers (one for transmitting and one for receiving), the 100G BiDi QSFP28 uses bidirectional

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

QSFP28 Single Fiber

QSFP28 BiDi (Bi-Directional) modules are a modern solution designed for data transmission in optical networks. By utilizing bi-directional technology, they enable data to be transmitted in both directions

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.

Explaining 100G Bidirectional (BiDi) Optics

This 100G bidirectional transceiver provides 100Gbps bandwidth over standard duplex multi-mode fiber. The 100G multi-mode BiDi QSFP28 optics

40G QSFP BiDi vs 40G QSFP SR4 vs 40G QSFP UNIV: What Is the

What Is 40G QSFP BiDi SR Optical Transceiver Module The 40GBASE-BiDi SR (Bidirectional Short Reach) module is a type of 40G optical transceiver that utilizes a single pair of

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 Over Single Fiber, Simplified

Introducing the QSFP28 100G BiDi Product Family Last Updated: April 11, 2025
Upgrading from 10G to 100G no longer requires complex fiber

ProductSpecification

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

40G vs. 100G BiDi Transceivers, What is The Difference

This article introduces you to the difference between 40GBASE BiDi and 100GBASE BiDi transceivers, and learns how to choose between QSFP+ 40G

Arista 100G Transceivers and Cables: Q& A

Arista's 100G connectivity solutions include copper cables and Active Optical Cables (AOCs) to enable cost effective short reach options, as well as a wide range of optical transceivers in QSFP form

40G BiDi QSFP+: Single-fiber Bidirectional Transmission

The interfaces of optical modules are mainly divided into single-fiber bidirectional BiDi and dual-fiber bidirectional (Deplx). In the wavelength division multiplexing system, the line transmission

The Latest Research on 100G QSFP28 and SFP112

In application scenarios where fiber resources are relatively tight, single-fiber bidirectional optical modules can save 50% of fiber resources

100G Over Single Fiber, Simplified | ProLabs

Our QSFP28 Bidirectional (Bidi) transceivers delivers high-speed 100G connectivity over a single strand of fiber, with reach options up to 70km

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 a high performance module for short-range duplex data

Understanding 100G Single Fiber QSFP28 Module for

100G single fiber QSFP28 modules enable fast, cost-effective network upgrades using one fiber strand, ideal for scalable modern data centers.

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 applications. This transceiver is a high-performance module for

Walsun 100G QSFP28 Full Range BIDI Solution

To meet the demand for long-distance transmission in scenarios where optical fiber resources are scarce in edge access networks, Walsun has

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