

Jordan Single-Fiber Bidirectional QSFP



Overview

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. 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 SMF (Single Mode Fiber). (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. ZR4 BiDi, using four. To meet the demand for long-distance transmission in scenarios where optical fiber resources are scarce in edge access networks, Walsun has launched the 100G QSFP28 ZR4 BIDI product, and will demonstrate 100G 80km single-fiber bidirectional service transmission at OFC 2024. QSFP28 stands for Quad Small Form-factor Pluggable 28, with “Quad” referring to the four independent channels, each.



Article Content

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

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.

QSFP single -mode and multi -mode fiber jump line

QSFP (Quad Small Form-factor Pluggable) modules are commonly used in networking devices to provide high-speed connectivity over optical fiber. QSFP

100G BiDi QSFP28 SR1.2 150m | Single Fiber | EDGEOPTIC

By using wavelength division for full-duplex 100G transmission on a single multimode fiber strand, the module delivers up to 106.25 Gbps throughput while reducing fiber count by 75% compared to

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 and

QSFP28 100G SR Bidi Optical Transceivers

The QSFP28 100G SR Bidirectional transceiver supports transmission distances of up to 100 meters over multimode (50/125) fibre, utilizing two wavelengths for bidirectional data transmission on a

Understanding the Cisco QSFP-40G-SR-BD

Q: What is the Cisco QSFP-40G-SR-BD Transceiver Module? A: The QSFP-40G-SR-BD is the optical transceiver module towards high performance

The Ultimate Guide to QSFP Cable: Everything You

QSFP56: Data Rates: Supports up to 200Gbps Cable Length: Supports distances up to 10km with single-mode fiber Connector Type: Similar to

Cisco 40GBASE QSFP Modules Data Sheet

Cisco QSFP 40G BiDi The Cisco QSFP 40-Gbps BiDirectional (BiDi) transceiver (Figure 1) is a pluggable optical transceiver with a duplex LC connector interface for short-reach data

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

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 builds.

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

What is QSFP & QSFP+ Transceiver: An Ultimate Guide

What is a QSFP & QSFP+ Transceiver? QSFP stands for Quad Small Form-factor Pluggable. By integrating four-lane signals into a single module, it

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

Features and Applications of the 100G QSFP28

It utilizes a bidirectional (BiDi) transmission scheme, allowing data to be transmitted and received over a single fiber strand. Operating at a wavelength

Comprehensive Guide to QSFP - MapYourTech

QSFP transceivers combine four independent electrical channels into a single compact form factor, enabling scalable bandwidth from 40 Gbps to 1.6

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

Fiberworks Data Sheet

QSFP-40G-LR4 40G Ethernet QSFP+ for singlemode fiber DESCRIPTION The QSFP-40G-LR4 transceiver is a Quad Small Formfactor Pluggable module for bi-directional serial optical 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 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

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

40G QSFP+ Cable and Transceiver Modules Data Sheet | FS

QSFP-PLR4L-40G The QSFP-PLR4L-40G module is designed for use in 40GBASE Ethernet throughput up to 2km over single mode fiber (SMF) using a wavelength of 1310nm via a

100G QSFP28 / SFP-DD Modules and Cables FAQ | FS

The 100G BiDi transceiver refers to the QSFP28 single-mode fiber bidirectional optical module applied to 100G Ethernet. Each optical port on the QSFP28 BiDi contains both a transmitter and receiver,

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 short for

Arista QDD-400G-SRBD1 | 400G QSFP-DD BiDi Transceiver, MMF,

The Arista QDD-400G-SRBD1 is a 400GBASE-SR4.2 BiDi QSFP-DD optical transceiver designed for high-speed data center connectivity. Using bidirectional wavelength technology over four pairs of

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

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 easy.

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

Single fiber QSFP28 modules (commonly called BiDi transceivers) enable full-duplex 100G communication over a single optical strand. They do this by using Wavelength Division

Contact Us

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