

Tanzania Single-fiber Bidirectional QSFP28



Overview

These modules are designed to transmit 100G Ethernet signals across single-mode fiber over distances up to roughly 80 kilometers. The FS® 100GBASE Quad Small Form-Factor Pluggable (QSFP28) portfolio offers customers a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider. 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 module enhances fiber utilization efficiency and can reduce fiber costs. 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. This article briefly introduces the key features and core advantages of 100G BiDi. Our 100G BiDi QSFP28 SR1. 25 Gbps using single-lambda PAM4. LC/UPC simplex. This is where 100G QSFP28 80km BiDi optical modules start to make sense.

Article Content

Feb 20, 2026

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.

Jul 27, 2025

100G QSFP28 BiDi : Optical Transceiver Module | NEC

100G QSFP28 LR1 BiDi/ER1 BiDi /ZR4 BiDi NEC's 100G QSFP28 BiDi optical transceiver enables the transmission and reception of 100Gb/s high-speed data

Sep 12, 2025

Understanding 100G QSFP28 80km BiDi Optical Modules in Long

These modules are designed to transmit 100G Ethernet signals across single-mode fiber over distances up to roughly 80 kilometers. The “BiDi” concept, short for bidirectional transmission, means that a

Feb 09, 2026

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%

Apr 12, 2026

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

Mar 25, 2026

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

Mar 01, 2026

100Gb/S QSFP28 ZR4 BIDI 80km Transceiver Price

BIDI-100G-QSFP28 is a B side 100G BIDI ZR4 Multi-Vendor MSA Compatible Bidirectional QSFP28 (Quad Small Form-Factor Pluggable 28) Transceiver designed for operation over Single-Mode Fiber

Dec 03, 2025

What Is an SFP Module? — Complete Guide to SFP, SFP+ & SFP28

BiDi (Bidirectional) — single-fiber solutions using different wavelengths for transmit and receive CWDM / DWDM — wavelength-multiplexed SFPs designed for carrier-grade and high

Mar 09, 2026

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

Jul 02, 2025

Exploring 100G Single Mode QSFP28 Transceiver Types

Explore 100G single mode QSFP28 module types by distance, cost, and use case to select the best fit for data center, metro, or long-haul networks.

Jul 28, 2025

100G QSFP28 BiDi Optical Module: Features, Benefits, and Use Cases

The 100G QSFP28 BiDi optical module enables 100G high-speed interconnects via single-fiber bidirectional transmission without adding more fibers, making it an ideal solution that balances

Nov 10, 2025

A Closer Look at 100G QSFP28 Single Lambda

100G QSFP28 optical module, as a mainstream solution for high-speed data center interconnects, has been widely adopted in various high

Jan 21, 2026

NEC begins sale of 100G QSFP28 ZR4 single-fiber bi

NEC begins sale of 100G QSFP28 ZR4 single-fiber bi-directional optical transceiver
Menu Tokyo, December 9, 2024 - NEC Corporation (NEC;

Oct 20, 2025

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.

May 17, 2026

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

May 15, 2026

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

Jan 31, 2026

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

Mar 04, 2026

What Is QSFP28? A Clear Explanation of 100G Transceivers

QSFP28 (Quad Small Form-Factor Pluggable 28) enables 100G transmission by aggregating four parallel 25G electrical lanes, delivering an optimal balance of bandwidth efficiency, power

Dec 27, 2025

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

EDGEOPTIC 100G BiDi QSFP28 SR1.2: 150m OM5 MMF single fiber, 850/900nm, 1.9dB budget, 106.25 Gbps PAM4. LC simplex connector for fiber-efficient data centers.

Jan 10, 2026

Our wide range of bidirectional QSFP28 100G

Our range of bidirectional QSFP28 100G transceivers Until recently, drop-in upgrades from 10G to 100G were primarily possible in traditional duplex

Dec 07, 2025

Features and Applications of the 100G QSFP28

In contrast to its SR4 counterpart, the 100G QSFP28 SR BiDi (Bidirectional) module adopts an innovative approach, harnessing WDM

Sep 03, 2025

QSFP28 Transceiver: The Ultimate 100G Optical

The QSFP28 LR4 (Long Reach) can also be considered for medium to long-distance transmissions where it employs a bidirectional wavelength division

Apr 08, 2026

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

Feb 21, 2026

100G BIDI QSFP28 Optical Transceivers for Long-Reach Networks

It's a 100GbE QSFP28 module that transmits and receives over one single-mode fiber using two different wavelengths (one for Tx, one for Rx). This allows full-duplex 100Gbps communication on a

Jul 16, 2025

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

It uses single-fibre bi-directional technology to transmit different wavelengths over a single fiber. Multiplexing and demultiplexing of the eight wavelengths are managed within the device.

Jan 27, 2026

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,

Nov 13, 2025

Single Fiber Transceiver QSFP28-100G

The QSFP28-100G BiDi single fibre transceiver is the latest addition to DWDM.ME's portfolio of solutions The QSFP28-100G BiDi (Quad Small Form-Factor Pluggable 100G

Jun 16, 2026

Understanding 100G Single Fiber QSFP28 Module for

As bandwidth demands explode, 100G QSFP28 modules have become the backbone of modern data centers and 5G networks. But traditional

Dec 28, 2025

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

Etern Optoelectronics has expanded its lineup of transceivers for 100Gbps transmission, and has started selling the new model 100G QSFP28 ZR4 BiDi, which extends transmission distance

Contact Us

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