

Iranian Single-Fiber Bidirectional 100G



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. This. 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. The QSFP-100G-B20U4-I and QSFP-100G-B20D4-I transceivers provide. 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. Designed for service providers, data center operators, and access networks, our Bidi. 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.



Article Content

Nov 01, 2025

Bidirectional 100G-PAM4 transceiver for 60-km O-band transmission

We experimentally demonstrate a real-time 100G PAM4 bidirectional optical transceiver suitable for 60km links (ER+). The transceiver design is based on a O-Band EML, commercial DSP and do not

Apr 12, 2026

QSFP-100G-SR1.2 QSFP28 100GBASE-SR BiDi 850nm

QSFP-100G-SR1.2 BiDi is a parallel Quad Small Form-factor Pluggable (QSFP28) Bi-Direction optical module that supports 100 Gbps bit rates. The module

Sep 08, 2025

100G and 100G BIDI | Syrotech

Our 100G QSFP28 transceivers, including BIDI variants, provide high-speed, low-latency connectivity for data centers, enterprise networks, and telecom applications. Designed for efficiency and reliability,

Mar 09, 2026

P/N:QSFP-BX20-100G

The QSFP28 transceiver provides 100GBase-BX throughput up to 20km over

Jun 27, 2025

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

The QSFP-100G-B20U4-I and QSFP-100G-B20D4-I transceivers provide single-fiber, full-duplex, 100Gbps connectivity as network traffic continues to grow driven by new wireline and wireless

Jul 26, 2025

100G QSFP28 Transceivers: LR, ER, ZR Complete Guide

Explore 100G QSFP28 transceivers: SR4, LR4, ER4, ZR4 variants. Compare double fiber, single lambda PAM4, and BIDI options for optimal network

Mar 09, 2026

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

Feb 20, 2026

Overview of 100G SFP Types

100G BiDi (Bidirectional) modules are worth mentioning here. These are specialized optical transceivers that transmit and receive data over a single fiber strand, effectively doubling the

Aug 02, 2025

Coherent interference reduction in single-fiber bidirectional system ...

We propose bidirectional transmission on same wavelengths in a single fiber for 100-Gb/s short distance applications. By utilizing alternate-mark inversion coding, coherent interference

Aug 28, 2025

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.

Jan 03, 2026

FiberMall Launches 100G QSFP28 ZR4 BIDI | FiberMall

FiberMall's 100G QSFP28 BIDI (20km/40km/80km) series optical module products
The 100G QSFP28 ZR4 BIDI product for 100G BIDI adopts

Jan 28, 2026

100G BiDi QSFP28 80km Side B | €1,802 | EDGE

100G BiDi QSFP28 80km, Side B: LAN WDM Tx 1295-1309 nm, O-Band Rx, 30 dB budget, host RS-FEC. Pair with Side A. €1,801.80. EU stock + lifetime warranty.

May 21, 2026

100G and 100G BIDI | Syrotech

Designed for efficiency and reliability, these compact modules support both bidirectional and standard fiber or copper connections, ensuring smooth integration with your network.

Apr 30, 2026

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

Dec 31, 2025

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 02, 2025

The Ins and Outs of Bidirectional Fiber (BiDi) for 100G

Bidirectional Fiber (BiDi): Ins & Outs of Optics Standard fiber connections use two strands: one to transmit and one to receive. BiDi transceivers change the math by utilizing WDM

Jun 20, 2026

Coherent releases industry's first dual laser QSFP28-DCO chip ...

The new module allows network operators to deploy bi-directional 100G coherent links over a single fiber, an essential capability for routes where fiber availability is limited or costly to expand.

Jul 29, 2025

The Complete Guide to BiDi Transceiver

What Is BiDi Transceiver? BiDi transceivers have become synonymous with reliable and high-performance networking, which can achieve

Oct 08, 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

Aug 19, 2025

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.

Mar 22, 2026

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.

Jun 13, 2026

How to Use 100G BIDI QSFP28 to Transmit 10km with Single-Core Fiber ...

It utilizes a bidirectional design that allows for communication over a single fiber by using two different wavelengths, typically 1271nm for transmission (Tx) and 1331nm for reception (Rx).

Apr 01, 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

Aug 24, 2025

100G QSFP28 SR BiDi 100m LC Optical Transceiver

100G QSFP28 SR BiDi LC Transceiver – A breakthrough single-fiber bidirectional solution for 100G Ethernet, enabling 100m transmission over duplex OM4

Dec 10, 2025

100G Over Single Fiber, Simplified

Upgrading from 10G to 100G no longer requires complex fiber builds. Our QSFP28 Bidirectional (Bidi) transceivers delivers high-speed 100G

Jun 05, 2026

100G BIDI QSFP28 Optical Transceiver: Single Fiber, Duplex Solution ...

Discover how the Svelol 100G QSFP28 BIDI optical module solves data center fiber challenges. Leverage single-fiber bidirectional (BIDI) technology to save 50% fiber, reduce costs & simplify high

Contact Us

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