

Single-fiber bidirectional QSFP after-sales service



Overview

100G QSFP28 BiDi : Optical Transceiver Module | NECNEC's 100G QSFP28 BiDi optical transceiver enables the transmission and reception of 100Gb/s high-speed.

Key Takeaways

After-sales service for single-fiber BiDi QSFP transceivers typically includes warranty coverage, technical support, and replacement options, with vendor-specific programs ensuring compatibility and reliability.

Warranty and Replacement

Most vendors, including Cisco, ProLabs, NEC, and RAD, provide limited warranties for BiDi QSFP modules, generally covering defects in materials and workmanship for a defined period (commonly 1-5 years depending on the manufacturer). If a transceiver fails within the warranty period, customers can usually request a replacement or repair through the vendor's authorized support channels. Some vendors also offer advanced replacement programs, where a replacement unit is shipped before the faulty module is returned, minimizing network downtime.

Technical Support After-sales technical support typically includes: Installation guidance and compatibility verification with existing network equipment, such as switches and routers. Troubleshooting assistance for link issues, signal integrity, or interoperability with multimode or single-mode fiber. Firmware or configuration support for dual-rate or multi-wavelength BiDi modules, ensuring proper operation in 40/100G or 100G networks.

Vendors often provide online resources, including datasheets, application notes, and compatibility matrices, to assist with deployment and maintenance. Maintenance and Lifecycle Management Single-fiber BiDi QSFP modules are hot-swappable, reducing the need for network downtime during replacement. After-sales service may also include: End-of-life notifications and upgrade recommendations for newer BiDi modules.

Compatibility checks for duplex LC or CWDM4 single-fiber deployments, ensuring smooth migration from 10/40G to 100G or higher. Environmental support, including industrial temperature ranges for modules used in harsh conditions.

Vendor-

Specific Considerations

Cisco: Offers certified and tested QSFP BiDi modules with interoperability guarantees and support through Cisco TAC for troubleshooting and replacement.

Pro

Labs: Provides single-fiber 100G BiDi transceivers with OEM compatibility and extended reach options, supporting both standard and industrial temperature environments.

NE

C: Focuses on long-reach single-fiber BiDi solutions with ZR4 LWDM technology, offering vendor support for high-speed optical networks.

RA

D: Supplies dual-to-single fiber BiDi adaptors compatible with multiple QSFP/SFP form factors, with after-sales guidance for deployment and SLA-based service management. Summary After-sales service for single-fiber BiDi QSFP transceivers generally includes warranty coverage, technical support, replacement or repair options, and guidance for deployment and maintenance. Customers should verify the specific warranty terms, support channels, and compatibility guarantees with the vendor to ensure reliable operation and minimal network disruption.

Proper after-sales support is critical for maintaining high-speed, single-fiber optical links in data centers, service provider networks, and enterprise environments.

Article Content

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

100G Over Single Fiber, Simplified | ProLabs

Delivers 100G over a single fiber up to 70km, avoiding costly construction or leasing. Ideal for network operators looking to scale quickly without breaking the bank.

Cisco 40/100Gb QSFP100 BiDi Pluggable Transceiver

When the popular QSFP+ 40Gb bi-directional (BiDi) transceiver was released, it enabled data center operators, for the first time, to upgrade from 10Gb to 40Gb without the need to replace

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

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

Explore the key differences between the QSFP-100G-SR1.2 and QSFP28-BIDI-100G. Learn how to select the best module based on fiber resources, distance, cost, and scalability for your

Comprehensive Guide to 100G BIDI QSFP28 Transceivers | FiberMall

Unlike traditional transceivers that require two fibers (one for transmitting and one for receiving), the 100G BIDI QSFP28 uses bidirectional technology to transmit and receive data over a

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

If you already own an FS 100G optical transceiver module, it comes with the same 5-year warranty as top brands, along with a 30-day return and exchange policy, ensuring you the most reliable after

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.

Reduce fiber count for 10G backhaul traffic using QSFP+ 40G 40km

ProLabs'' new QSFP+ 40G 40km 4x10G Bidi transceivers extend the life of legacy QSFP ports in the field while providing flexibility for service upgrades over existing fiber infrastructure. The

Cisco 40 Gigabit Modules

Cisco offers a broad range of 40 Gigabit Ethernet interfaces to meet the high-performance connectivity requirements of campus, data center, and cloud deployments. Our latest innovation, the QSFP BiDi

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

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 connectivity over a single strand of fiber,

7m (23ft) 40G QSFP+ to 4 x 10G SFP+ Active Optical Breakout Cable

The Vchung 40G QSFP+ to 4 SFP+ Breakout Active Optical Cable operates over Multi-Mode Fiber (MMF). This breakout cable is compliant with SFF-8436, SFF-8431 and SFP+ & QSFP MSA standards.

FiberMall Launches 100G QSFP28 ZR4 BIDI | FiberMall

The 100G QSFP28 ZR4 BIDI product for 100G BIDI adopts 4*25G NRZ solution to achieve single-fiber bidirectional transmission, and the overall design maintains the consistency with

Understanding 100G Single Fiber QSFP28 Module for Modern Networks

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

QSFP+ Port Operations and Switch Fabric Mode

The quad small form-factor pluggable plus (QSFP+) is a transceiver module that offers high-density 40 Gigabit Ethernet connectivity options for datacenter and high-performance computing networks. The

Bi-Directional Single Fibre Digital Transceivers

Bi-directional (Bi-Di) transceivers allow a physical capacity doubling of existing installed legacy single mode fibre links. Using special Bi-directional Optical Sub Assembly (BOSA) components inside of the

What is QSFP & QSFP+ Transceiver: An Ultimate

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

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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