

Three-year warranty single-fiber bidirectional QSFP-DD



AI Overview

Single-fiber bidirectional QSFP-DD transceivers enable high-speed 100G or 400G connectivity over a single fiber strand, with warranty coverage varying by vendor, typically ranging from one to three years.

Overview of Single-Fiber Bidirectional QSFP-DD Technology

Single-fiber bidirectional (BiDi) QSFP-DD modules transmit and receive data simultaneously over a single optical fiber, effectively doubling the capacity of existing fiber infrastructure. These modules are available in multiple speeds, including 100G QSFP28 BiDi and 40G QSFP+ BiDi, and are compatible with both multimode and single-mode fibers. Each fiber port contains both a transmitter and receiver, allowing full-duplex communication without requiring separate fibers for transmit and receive signals.

Key Features

- **High-Speed Connectivity:** Supports 100G or 400G Ethernet over a single fiber strand, with 50Gbps per direction for 100G BiDi modules.
- **Reach:** Depending on the module and fiber type, reach can extend up to 70km for 100G single-mode fiber or 150m for multimode fiber.
- **Compatibility:** Tested for interoperability with major OEM switches and routers, including Cisco, Arista, Juniper, and Mellanox.
- **Environmental Tolerance:** Many modules support standard (0°C to 70°C) and indu...

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Double Density Flyover® QSFP Cable System

The FQSFP-DD series has a CPM of 56 Gbps NRZ/112 Gbps PAM4. FQSFP-DD products are capable of protocols whose channel

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100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP-100G-FR-S Module supports link lengths of up to 2 km over a standard pair of G.652 Single-Mode

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QSFP-DD Optical Module Overview: What is the differ?

This article will introduce the next generation optical module in detail, QSFP-DD, also known as quad small factor

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Quadwire® QSFP-DD Active Optical Cables | Coherent

Networking Quadwire® QSFP-DD Active Optical Cables Drive high-speed connectivity enabled by multiple

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QSFP-DDVSQSFP+/QSFP28/QSFP56/OSFP:What Are the Differences?

The QSFP-DD, heralded as the most compact form factor for 400G transceivers, is gaining traction among fiber optic

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Double Density Flyover® QSFP Cable System

Features FQSFP-DD Evaluation Kits available Up to 400 Gbps aggregate (56 Gbps PAM4) PCIe® 6.0/CXL® 3.2 capable 8 channels

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Cisco Optics Product Information

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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

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Dual to Single Fiber Solutions | RAD BiDi QSFP28 DD Adaptor

Simple to deploy, this compact adaptor doubles fiber capacity while avoiding costly new fiber/transceiver deployments and frees up

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Comprehensive Guide to QSFP – MapYourTech

QSFP transceivers combine four independent electrical channels into a single compact form

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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

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The Ultimate Guide to QSFP Cables: What You.

For example, a QSFP-100G-LR4-S transceiver uses four 25G lanes multiplexed over single

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Tripp Lite Eaton Series 400GBase-SR8 QSFP-DD Transceiver

This QSFP-DD transceiver allows you to connect a multimode fiber optic cable to a 400 Gbps network router, server or switch. It

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What is QSFP & QSFP+ Transceiver: An Ultimate Guide

In recent years, with the increasing demand for data centers and cloud computing, QSFP transceivers have become

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How to Choose QSFP-DD: Step-by-Step Selection Guide

Learn how to choose QSFP-DD transceivers for 400G/800G networks, including reach, compatibility, power, and

May 15, 2026

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

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Ultimate QSFP Transceiver Guide: Types (40G/100G) & Compatibility

Confused by QSFP types? Decode the differences between QSFP+, QSFP28 (100G), and QSFP-DD. Learn how to select the right

Jan 21, 2026

SFF-8679 Specification for QSFP+ 4X Hardware and Electrical ...

Figure 6-2 and Figure 6-3 provide example host board schematics for an optical QSFP+ module and for a QSFP+ copper cable plug

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QSFP-DD vs OSFP vs QSFP56 vs QSFP112 | FiberMall

QSFP-DD is the mainstream module of 400G transceivers which is different than other form

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QSFP-DD CONNECTORS & CABLE ASSEMBLIES PRODUCT

The QSFP-DD portfolio's backwards compatibility allows existing QSFP modules to be plugged into QSFP-DD ports. Our QSFP-DD

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QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year

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Small Form-factor Pluggable

Quad Small Form-factor Pluggable (QSFP) transceivers are available with a variety of transmitter and receiver types, allowing users

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

The Coherent 100G ZR QSFP-DCO is the industry's first dual laser QSFP28 digital coherent optics (DCO) module for

Sep 17, 2025

Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that

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QSFP+ Explained (40G): Types, Distances, and How to Choose

Learn QSFP+ 40G optics: SR4/CSR4, BiDi, UNIV, LR4/ER4; LC vs MPO, distances, 4×10G breakout, link-budget

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Understanding Pluggable Optical Modules

QSFP-DD (Quad Small Form-Factor Pluggable-Double Density) optical module: It is a double-density four-channel small pluggable

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Optical Transceiver Buying Guide: SFP/QSFP Explained for

Understanding Fiber Compatibility: Single-Mode vs Multimode The choice between single-mode fiber (SMF) and

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