

# Quality Guaranteed Single-Fiber Bidirectional 40G



## Overview

T1-QSFP-40G-SR-BD is a four-channel, pluggable, LC Duplex, fiber-optic QSFP+ transceiver for 40 Gigabit Ethernet applications. The Cisco ® 40GBASE QSFP (Quad Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 40 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider. FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for high-density switching, routing and data center applications. It enables 40GbE transmission with only two fibers, making it a practical alternative to QSFP-40G-SR4 in environments where fiber resources are limited or MPO. FIBERSTAMP 40G QSFP+ SR BiDi optical transceiver is designed for short-distance interconnection between devices within data centers. It complies with the 40G Ethernet transmission protocol. When upgrading the network architecture from 10G to 40G, it can directly utilize the existing LC duplex. QSFP+ Optical Transceiver Module is designed for use in 40GBASE Ethernet throughput up to 150m over OM4 multimode fiber (MMF) using a wavelength of 832nm to 918nm via an LC connector. 2Gbps per channel bandwidth Aggregate bandwidth of > 40Gbps Duplex LC connector Compliant.



## Article Content

Jun 26, 2025

SFP Single Fiber 40 km transceiver | Cisco Compatible

40 km Single Fiber SFP | PSFP-11DB55K040 PSFP-11DB55K040 40 km Single Fiber SFP Platinum transceiver for 1G Ethernet. Cisco Compatible single strand

Dec 29, 2025

40G SR BIDI 850nm 150m | HEYOPTICS

QSFP+ Optical Transceiver Module is designed for use in 40GBASE Ethernet throughput up to 150m over OM4 multimode fiber (MMF) using a wavelength of

Jul 05, 2025

Cisco QSFP-40G-SR-BD Datasheet

Cisco QSFP-40G-SR-BD (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

Mar 28, 2026

Fiber-Optic Cabling Connectivity Guide for 40-Gbps Bidirectional and ...

Cabling Options for 40-Gbps Two-Fiber Bidirectional Optics (QSFP-40G-SR-BD) Since the introduction of 40 Gigabit Ethernet with the IEEE 802.3ba standard in 2010, the only multimode solution on the

Feb 22, 2026

40G QSFP+ Duplex LC SM Fiber Transceiver

The QSFP+ module is specifically designed for efficient use in 40GBASE Ethernet applications that require data transmission up to 10km over single mode fiber

Oct 24, 2025

Experimental demonstration of 100 Gb/s single-fiber bidirectional ...

Abstract We experimentally demonstrate 100 Gb/s bidirectional transmission over 40 km using a multi-wavelength bidirectional optical sub-assembly (BOSA) based on a single bidirectional multi

Sep 28, 2025

QSFP+ 40G Optical Transceivers,40G Fiber Optic Transceiver

40G QSFP+ BIDI optical transceiver module is a pluggable optical transceiver with a duplex LC connector interface for short-reach data communication and interconnect applications using Multi

Nov 25, 2025

100G BiDi QSFP28 150m | Single Fiber MMF

EDGEOPTIC 100G BiDi QSFP28: 150m OM5 MMF single fiber, 850/900nm, 1.9dB budget, 106.25 Gbps. LC simplex connector, also supports 40G QSFP operation.

Oct 02, 2025

40G QSFP+ SR BIDI 850nm/910nm 100m Module

Ascent Optics'' QSP-40BD89-1HCL is a Four-Channel, Pluggable, LC Duplex, Fiber-Optic QSFP+ Transceiver for 40 Gigabit Ethernet Applications. This transceiver is

Oct 15, 2025

40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for high-density switching, routing and data center applications.

Nov 30, 2025

40G QSFP Optical Transceiver

T1-QSFP-40G-SR-BD is a four-channel, pluggable, LC Duplex, fiber-optic QSFP+ transceiver for 40 Gigabit Ethernet applications. It is a high-performance module

Jul 11, 2025

MGBIC-BX40-D

This Extreme Compatible MGBIC-BX40-D, 1 Gb, 1000Base-BX40-D Single Fiber SM, Bidirectional, 1490nm Tx / 1310nm Rx, 40 Km, Simplex LC SFP (must be paired with MGBICBX40-U), -40°C to

Jan 26, 2026

Datasheet 40GBASE-SR Bi-Directional QSFP LC Duplex Transceiver

Datasheet Description I,Pluggable, LC Duplex, Fiber-Optic QSFP+ Transceiver for 40 Gigabit Ethernet Applications. This transceiver is a high performance module for short-range duplex data

Oct 09, 2025

Cisco 40GBASE QSFP Modules Data Sheet

It enables high-bandwidth 40G optical links over 12-fiber parallel fiber terminated with MPO/MTP multifiber female connectors. It can also be used in a 4x10G mode for interoperability with

Aug 23, 2025

Discover the Power of Cisco® QSFP-40G-SR-BD

The introduction of QSFP-40G-SR-BD modules into the fiber infrastructure involves specific strategies to guarantee that the current structure

Mar 12, 2026

QSFP-40G-SR-BD Transceiver Module | High

The QSFP-40G-SR-BD Quad Small Form-Factor Pluggable (QSFP) bi-directional transceiver module is one of Cisco's most innovative products to date. The

Feb 10, 2026

40G QSFP+ SR BiDi VCSEL 850nm/900nm 150m MMF

FIBERSTAMP 40G QSFP+ SR BiDi optical transceiver is designed for short-distance interconnection between devices within data centers. It complies with the 40G

Apr 05, 2026

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

Feb 01, 2026

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

Mar 14, 2026

Bidi single fiber bidirectional optical module, all you want

40G QSFP + bidi dual fiber bidirectional optical module is a special bidi optical module, which is designed with LC duplex interface. As shown in

Dec 01, 2025

40G vs. 100G BiDi Transceivers, What is The Difference

The Application of QSFP 40G SR BD and QSFP28 100G SR BD The adoption of 40G and 100G BiDi transceivers is rising, particularly in data centers. This trend

May 07, 2026

25G SFP28 ITEMP bidirectional transceivers extend single fiber reach

Maximize single fiber value with bidirectional (1270nm/1310nm) SFP28 25G signals. Extended signal reach of up to 40km is perfect for use in 5G wireless radio heads Industrial

Jan 29, 2026

40G QSFP BIDI vs 40G QSFP SR4 vs 40G QSFP UNIV: What Is the

Discover the differences between 40G BIDI SR, 40G SR4, and 40G UNIV modules. Explore their compatibility, transmission modes, and fiber types for optimal performance in your 40G

Oct 30, 2025

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

Feb 06, 2026

40GBASE-ER4 QSFP+ Transceiver | 40km SMF

Our 40GBASE-ER4 QSFP+ transceiver enables ultra-long-reach connectivity for service provider networks. Supporting 40km transmission over single-mode fiber

Jul 08, 2025

Fiber Optic Transceiver 40G QSFP+ Single Mode Optic

The transmission distance capabilities of 40G transceivers depend on the type of fiber optic cable used. They can support short-range links of a few

Sep 10, 2025

Cisco SFP-10G-BX40D-I Datasheet

Cisco SFP-10G-BX40D-I and SFP-10G-BX40U-I (for 40Km single-fiber bidirectional applications) The Cisco SFP-10G-BX40D-I and SFP-10G-BX40U-I SFPs operate on a single strand of standard SMF.

Nov 25, 2025

QSFP 40G SR BD: 40G QSFP+ BiDi Transceiver Explained

Summary: QSFP-40G-SR-BD is a fiber-saving 40G solution that combines short-reach multimode operation with bidirectional signaling. It sits between traditional SR4 and LR4 modules, offering

## Contact Us

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