

Huawei Single-Fiber Bidirectional Technology



Overview

The WDM system supports two transmission modes: single-fiber unidirectional and single-fiber bidirectional. Simple design and low requirements. Easy fault isolation. Huawei Takes The Lead In Passing The Industry's First 50GE Single Fiber Bidirectional Transmission Technology Test Recently, China Mobile Research Institute organized a 50GE single-fiber two-way new technology test, and Huawei took the lead in passing the test. High-level modulation formats such as 32QAM and 64QAM, have been. BiDi SFP means bidirectional small form-factor pluggable transceiver. The most distinct characteristic of the bidirectional SFP transceiver is that it is able to achieve bidirectional fiber optic communication by operating on a single fiber. Based on WDM (Wavelength-Division Multiplexing).



Article Content

Feb 18, 2026

SFP-10G-ER-SM1270-BIDI (Single-Fiber-Bidirectional Module)

This module can only be used on a switch running V200R009C00 or a later version. A switch running an earlier version may fail to obtain information about this module.
Single-fiber bidirectional (BIDI)

Feb 14, 2026

Huawei SFP-GE-LX-SM1310-BIDI (Single-Fiber-Bidirectional Module)

This compact SFP transceiver delivers cost-effective Gigabit Ethernet connectivity over single-mode fiber using innovative bidirectional technology. Operating at 1310nm wavelength, it transmits and

Jul 05, 2025

SFP-GE-LX-SM1490-BIDI (Single-Fiber-Bidirectional Module)

Single-fiber bidirectional (BIDI) optical modules must be used in pairs. For example, SFP-GE-LX-SM1490-BIDI must be used with SFP-GE-LX-SM1310-BIDI.

Dec 29, 2025

BiDi SFP: The Complete Guide to Bidirectional SFP Transceivers and ...

A BiDi SFP is a specialized optical transceiver that enables bidirectional communication over a single strand of optical fiber. Unlike standard duplex SFPs that require two fibers—one for

Sep 25, 2025

SFP-GE-LX-SM1490-BIDI (Single-Fiber-Bidirectional Module)

AR100, AR120, AR150, AR160, AR200, AR1200, AR2200, AR3200, and AR3600
Hardware Description This document describes hardware components of the AR, including the cabinet, chassis, power

Sep 18, 2025

HUAWEI SBM OSN1800 TNF1SBM2 TNF1SBM4

Transmission of all services over a single network: the OptiX OSN 1800

Nov 29, 2025

Custom 40G QSFP+ and 50G SFP56/QSFP28 Modules

Custom 50G SFP56 BiDi Optical Transceivers The ultimate solution for 5G cell site rollouts where dark fiber is severely constrained. This highly requested BiDirectional SFP56 module pushes 50Gbps

Sep 10, 2025

Single-Fiber Bidirectional Transmission and Single-Fiber

Convenient O& M, and flexible networking that facilitating upgrading and capacity expansion. In this mode, multi-wavelength optical signals are transmitted through only one fiber in both receive and

Dec 18, 2025

Huawei 02311BJB SFP-10G-ER-SM1330-BIDI Optical Module-SFP

It operates in the 10G BIDI (Bidirectional) Single Mode configuration, which means it can transmit and receive signals over a single fiber strand, thanks to its TX (transmit) wavelength of 1330nm and RX

May 05, 2026

SFP-10g-Bxd1 (Single-Fiber-Bidirectional Module)

Note: Single-fiber bidirectional (BIDI) optical modules must be used in pairs. For example, SFP-10G-BXD1 must be used with SFP-10G-BXU1.

Jun 19, 2026

Huawei Original SFP-GE-LX-SM1310-BIDI 02315285

BiDi SFP means bidirectional small form-factor pluggable transceiver. The most distinct characteristic of the bidirectional SFP transceiver is that it is

May 13, 2026

FAQ: What Is Single-Fiber Bidirectional

In Single-Fiber bidirectional mode, multi-wavelength optical signals are transmitted through only one fiber in both receive and transmit directions. This mode is mainly used on the client

Dec 04, 2025

SFP-10G-BXD1 (Single-Fiber-Bidirectional Module)

This document provides an overall description of the CE5800& 6800& 7800& 8800 series switches hardware that versions earlier than V200R020C00, helping you obtain detailed information about

Sep 23, 2025

SFP-10G-ER-SM1330-BIDI (Single-Fiber-Bidirectional Module ...

This document provides an overall description of the CE5800& 6800& 7800& 8800 series switches hardware that versions earlier than V200R020C00, helping you obtain detailed information about

Feb 10, 2026

100 Gbit/s Bidirectional Transmission in a Single Fiber with Twin bidi ...

100 Gbit/s Bidirectional Transmission in a Single Fiber with Twin bidi Transceivers
Theo Huguenin, Fabienne Saliou, Gael Simon, Jeremy Potet, Philippe Chanclou, Mokhtar Korti, and Ronald Heron

Jun 10, 2026

Huawei Takes The Lead In Passing The Industry's First

The single-fiber bidirectional technology uses one optical fiber to transmit and receive optical signals in two directions through different optical

May 07, 2026

SFP-1GB-BX-U-I-HW2-AO | Huawei® | Transceivers

Specifications This Huawei® compatible SFP transceiver provides 1000Base-BX throughput up to 10km over single-mode fiber (SMF) using a wavelength of 1310nmTx/1490nmRx via an LC connector. This

Feb 14, 2026

High Capacity Coherent Systems Using Same-Wavelength

G.652 SSMF fiber spools were used to configure single- and multiple-span links. The testing channel at 1548.5 nm along with the fully loaded WDM channels were coupled on to the spans from both ...

Nov 21, 2025

SFP-10g-Bxd1 (Single-Fiber-Bidirectional Module)

SFP-10g-Bxd1 (Single-Fiber-Bidirectional Module) Huawei Industrial Optical Modules 02310qdt, Find Details and Price about SFP-10g-Bxd1 02310qdt from SFP-10g

Mar 21, 2026

Huawei's SingleFAN Pro Solution Awarded Fibre Access

Huawei's SingleFAN Pro solution has been awarded Fibre Access Solution of the Year at the Broadband World Forum 2021 (BBWF 2021) award

Sep 19, 2025

Huawei Takes The Lead In Passing The Industry's First

Huawei Takes The Lead In Passing The Industry's First 50GE Single Fiber Bidirectional Transmission Technology Test Recently, China Mobile

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