

# BIDI optical module types



## Overview

In this guide, we focus on how BiDi SFP modules work, the differences between 155M, 1G, and 10G BiDi SFP types, and the real-world trade-offs that determine when BiDi optics are the right choice—and when a traditional dual-fiber SFP design may be more appropriate. □ What Is a. BiDi transceiver, a compact optical transceiver with WDM (wavelength division multiplexing) technology and SFP multi-source protocol (MSA) compliance, allows fast data transmission using a single fiber optic for both sending and receiving signals, saving resources and cutting infrastructure costs. It achieves simultaneous bi-directional communication by using different. BiDi optical modules can do this by utilizing full-duplex communication over a single fiber strand via two wavelengths. In other words, this means that it allows for simultaneous two-way data flow.

## Article Content

Transceiver Optical Module Cisco 10G SFP+ TX1330/RX1270nm

Fiber Optical Transceiver|Optical Module Cisco Compatible 10G SFP+ BiDi TX1330nm RX1270nm 20km LC/UPC Single Mode Specifications With TX wavelength of 1330nm and an RX wavelength of

What Is a BiDi Transceiver? — The Ultimate Guide (2025)

Because BiDi modules include extra optics (filters, sometimes different lasers/receivers), their link budgets can differ from duplex modules. That affects maximum distance—always check the

BiDi Optical Modules: Unlocking Single-Fiber

Comprehensive guide on BiDi Optical modules, detailing single-fiber bidirectional connectivity, deployment tips, troubleshooting, and multi-speed

Transceiver Optical Module Cisco 10G SFP+ TX1330/RX1270nm

Buy Transceiver Optical Module Cisco 10G SFP+ TX1330/RX1270nm with 40km transmission, 1330nm wavelength. top-tier connector for networking. Available.

High Quality 1000BASE BiDi Optical Transceiver Module 1310nm

High Quality 1000BASE BiDi Optical Transceiver Module 1310nm-TX/1550nm-RX 20km DOM Simplex LC Connector for SM Fiber

What Is a BiDi Transceiver? — The Ultimate Guide (2025)

a BiDi Transceiver (short for bidirectional transceiver) is an optical module that sends and receives data over a single strand of optical fiber by using two different

LC vs SC Connectors in BiDi SFP+ Modules: How to Pick the Right

When it comes to the two, the main difference is more about how they're used than how well they work. Selection Strategies for LC vs. SC in BiDi SFP+ Modules The type of interface on BiDi optical

What is a Bidi Transceiver? A Complete Guide

In this article, we will give you a complete introduction of Bidi Transceivers, so that you can better understand and make a proper choice of

Understanding BIDI SFP Optical Transceiver Module:

Explore the world of BIDI SFP optical transceiver modules! Learn about their bi-directional capabilities, applications, and how they enhance LC

What is BiDi Transceiver: A Beginner's Guide

What is a BiDi Transceiver? BiDi transceiver, or Bidirectional or simplex optical transceiver, is an optical module that uses Wavelength Division

TOP-BIDI-1.25G-120AD/BD 1.25G BIDI SFP Module 120km

Key attributes Network Wired LAN Use switch Type optical module, Fiber Optic Transceivers Model Number TOP-BIDI-1.25G-120AD/BD Brand Name Top-trans Place of Origin Guangdong, China Rate

The Essential Guide to BiDi Transceivers: Everything

BiDi transceivers are available at varying speeds, transmission rates, and wavelengths. The following provides a thorough explanation of the various

Optical Transceivers / SFP Modules - High-Performance Compatible

LINK-PP also provides specialized DWDM, CWDM, and BiDi SFP module for optical networking flexibility. We ensure long-term reliability with 100% optical and electrical testing, strict quality control,

Optical Transceiver Guide 2026 EP4 SFP Module Selection Tips

☐☐ Optical Transceiver Guide 2026 — EP.4/7 is now available Choosing the right SFP module is not only about transmission distance anymore. In real deployment scenarios, System Integrators also ...

The Complete Guide to BiDi Transceiver

Explore more about the BiDi transceiver's working principles, types, applications, and how to choose the right BiDi fiber cables for BiDi modules.

Buy Cisco 40G Optical Modules | Price, Stock & Compatibility

Shop Cisco 40G optical modules for QSFP+, BiDi, CFP, and 40G uplink deployments. Check compatibility, stock, and request pricing for your project.

Bi-directional optical modules (BIDIs)

The HighPower BIDI® is a bi-directional optical component designed for full duplex communication over a single fiber. The HighPower BIDI® components consist of

XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM

XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM Duplex LC SMF Optical Transceiver Module Applicable to data center and campus networks, enabling cost-effective, efficient, and high

The Ultimate Guide to SFP Modules (2026): Types,

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right

The Essential Guide to Bidi Transceivers: Everything

Discover all you need to know about SFP Bidi modules, including how they work and the different types available. Learn about the essential guide to

### 1.25G SFP BIDI OPTICAL TRANSCEIVER MODULE

1.25G SFP BIDI Tx1550/Rx1490nm 120KM SMF DDM LC CISCO JUNIPER HUAWEI COMPATIBLE SFP OPTICAL TRANSCEIVER MODULE The SFP-BIDI transceivers are high performance, cost

### BiDi SFP Module: A Complete Guide for Fiber Networks

In this guide, we focus on how BiDi SFP modules work, the differences between 155M, 1G, and 10G BiDi SFP types, and the real-world trade-offs that determine when BiDi optics are the right choice—and

### SFP Optical Transceivers: How Pluggable Optics Are Reshaping

Discover how SFP optical transceivers are driving AI data centers and FTTX networks in 2026. Weunion's expert guide covers 400G, 800G, BiDi, DAC vs AOC, and compatibility strategies

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

Learn everything about BiDi SFP and BiDi fiber, including working principles, 1310nm/1550nm wavelength design, single fiber advantages, wiring diagrams, and key differences

### Transceiver Optical Module Cisco 10G SFP+ TX1330/RX1270nm

Fiber Optical Transceiver|Optical Module Cisco Compatible 10G SFP+ BiDi TX1330nm RX1270nm 10km LC/UPC Single Mode Specifications As a professional transceiver module supplier, AOFPlus is

### What is BiDi Transceiver: A Beginner's Guide

This article will explain the BiDi optical transceiver, analyze its advantages and disadvantages, discuss applicable application scenarios, and

### 400G Optical Modules Explained: SR4 Vs. DR4 Vs. FR4

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

### Accessories 2.5G-SFP-LX03-SM1310-BIDI-I 2.5G BiDi SFP ...

2.5G-SFP-LX03-SM1310-BIDI-I 2.5G BiDi SFP 1310nm-TX/1550nm-RX 3-km DOM Simplex LC SMF Transceiver Module Applicable to data center and campus networks, enabling cost-effective,

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.charratcommunication.fr>

Email: [sales@charratcommunication.fr](mailto:sales@charratcommunication.fr)

Phone: +33 1 42 68 93 17

Address: 15 Rue de la Paix, 75002 Paris, France

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