

In Stock Single Fiber Bidirectional 10G



AI Overview

10G BiDi SFP+ modules enable full-duplex 10 Gigabit Ethernet over a single strand of single-mode fiber, with in-stock options supporting distances from 10 km up to 80 km.

Overview 10G BiDi (bidirectional) SFP+ modules use Wavelength Division Multiplexing (WDM) to transmit and receive data simultaneously over a single fiber strand. Each module typically integrates a DFB laser transmitter, a PIN or APD photodiode receiver, and an internal WDM coupler to separate inbound and outbound signals, reducing fiber usage by 50% and simplifying cabling infrastructure. These modules are hot-swappable, standards-compliant (SFP+ MSA, IEEE 802.3ae), and compatible with a wide range of switches and NICs.

Key Specifications

- Data Rate:** Up to 10–11.3 Gbps, supporting 10G Ethernet, Fibre Channel, and SONET/SDH applications.
- Fiber Type:** Single-mode fiber (SMF) with simplex LC connectors.
- Wavelength Pairs:** Common configurations include: Tx1270nm / Rx1330nm (20 km reach) and Tx1330nm / Rx1270nm for the matched pair. Tx1490nm / Rx1550nm and Tx1550nm / Rx1490nm for long-reach 80 km modules.
- Reach:** Options range from 10 km to 80 km, depending on module type and fiber quality.
- Power Consumption:** Typically ≤ 1.5 W, reducing heat and energy costs.
- Temperature Range:** Commercial (-10°C to 70°C) and industrial (-40°C to 85°C) options available.
- Digital Diagnostic Monitoring (DDM):** Provides real-time feedback on optical power, temperature, bias current, and voltage.

Benefits

- Fiber Savings:** Halves fiber requirements by using a single strand for bidirectional communication.
- High Density & Easy Deployment:** Reduces cabling complexity in space-constrained racks.
- Interoperability:** Tested with multiple vendors' switches and NICs for reliable operation.
- Long Reach Options:** Supports metro, campus, and enterprise networks with distances up to 80 km.
- Hot-Swappable:** Allows easy replacement or upgrades without network downtime.

Available In-Stock Options

FS 10G BiDi SFP+ Modules: Hi...

Article Content

Optical Connectivity for AI Infrastructure, Data Center

Optimize your AI infrastructure, data center & telecom networks with Optcore. Premier source for high-speed transceivers, DAC/AOC & fiber solutions

Comprehensive Guide to FS 10G BiDi SFP Modules

Optimize your fiber utilization with FS 10G BiDi SFP+ modules. Single-fiber 10G transmission, lower costs, high compatibility—ideal for data centers and telecom networks.

10G BiDi SFP+ Optical Transceiver Modules | FiberMall

The 10G BiDi SFP+ optical module has only one port and transmits and receives signals on one optical cable through an integrated bidirectional coupler.

MikroTik 10G Single-Mode SFP+ Module Pair, 10 km | Getic

BiDi Fiber Modules The MikroTik S+2733LC10D is a pair of industrial-grade 10G SFP+ modules designed for single-mode fiber links over distances of up to 10 km. The modules are intended for

Syrotech 10G Single Mode Single Fibre Bidirectional 20

Syrotech, SFP+, 10G, BiDi, 1270/1330 NM, 20KM, SMF GOXP-BI2396-20 & GOXP-BI3296-20 is hot pluggable 3.3V Small-Form-Factor transceiver module. It

10G BiDi SFP+ Modules: A Guide to Single-Fiber 10G

Explore how 10G BiDi SFP+ modules enable high-speed, bidirectional data over a single fiber, cutting costs, saving fiber, and simplifying network deployment.

10G BiDi SFP+ TX1550nm/RX1490nm 70KM LC Optical Transceiver

Product Description □ 10G BiDi SFP+ 1490nm/1550nm 70KM LC Optical Transceiver This high-performance bidirectional SFP+ transceiver delivers 10Gbps connectivity over 70km single-mode

Cisco 10GBASE SFP+ Modules Data Sheet

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

Comprehensive Guide to FS 10G BiDi SFP Modules

FS 10G BiDi SFP+ modules are a powerful tool for network engineers seeking to boost bandwidth without doubling fiber investment. With their compact form factor, reduced power draw,

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service

10G SFP+ BiDi 10-80km Single-fiber Bidirectional

The modules are fully compatible with 10G CPRI, SONET OC-192 / SDH STM

TVA Shifts to AVOID on DC Hub Power Index

Franklin (TVA) just shifted to AVOID on the DC Hub Power Index. That's typically a 12-18 month signal: the interconnect queue + transmission constraints have tipped past the point where new MW can ...

10G BiDi SFP+ 20km Tx1270/Rx1330 | €16.33 | EDGE Optical Solutions

The EdgeOptic BIDI-10G-SFP-20A is a multi-vendor 10G BiDi SFP+ single-fiber optical module built for long-reach 10 Gigabit Ethernet over single-mode fiber using bidirectional transmission.

10G BiDi SFP+ 10km | Tx1330/Rx1270 | Single Fiber Compatible

Compatible 10G BiDi SFP+ for 10km single fiber. Tx1330/Rx1270nm, 6.2dB budget, 50% fiber savings. Works with 80+ brands.

Network Transceiver Modules

Ubiquiti 10G Single-Mode Optical Module (2-Pack) BH # UBCOMSM10GD2 MFR # UACC-OM-SM-10G-D-2 2 Reviews Key Features Duplex LC Connector Up to 10

CBO SFP-10G-BX-D-40KM-BC-BO fiber SFP+ 10G | AiO.lv

Buy CBO SFP-10G-BX-D-40KM-BC-BO fiber SFP+ transceiver 10 Gbit/s for 40 km links — suitable for single-mode networks. Delivery available in Riga, Latvia and the EU.

10G BiDi SFP+ 80km Tx1490/Rx1550 | €144.59 | EDGE

It carries a 23 dB average link budget and supports serial data rates from 1.25 to 11.32 Gbps, covering 10GbE, Gigabit Ethernet, 1G to 10G Fibre Channel, and

Cisco 25GBASE SFP28 Modules Data Sheet

Cisco SFP-25G-BX40D-I and SFP-25G-BX40U-I (single-fiber bidirectional applications)
The Cisco 25GBASE-BR40 Modules support link

US Data Center Load Hits 610 GW, Cheyenne a Top-10 Build

NESO's interconnection queue holds 610 GW of requested load, 35% of all US queued load. new large loads in this ISO face a long energization wait — price the delay into the site decision ...

AJA 1-Channel 12G-SDI/LC Single-Mode LC Fiber Transceiver

The AJA 1-Channel 12G-SDI/LC Single-Mode LC Fiber Transceiver allows up to 10 km (32,808 ft) of standard single-mode fiber optic cable. AJA 1-Channel 12G-SDI/LC Single-Mode LC Fiber

SFP+ 10G transceivers BiDirectional, 10Km to 60Km range

The SFP-1060-WB is a 10G BiDirectional single strand multi-rate SFP+ transceiver using Tx:1330/Rx:1270nm wavelengths and reaching up to 60Km distance on 9/125um fiber.

10G Bidi SFP+ Modules Selection Guide

Bidirectional (Bidi) optical modules are the ingenious solution, allowing data transmission and reception over a single fiber strand. This guide cuts

AddOn Networks Brocade (Formerly) 10G-XFP-BXD-20 Compatible

This Brocade® (Formerly) 10G-XFP-BXD-20 compatible XFP transceiver provides 10GBase-BX throughput up to 20km over single-mode fiber (SMF) using a wavelength of 1330nmTx/1270nmRx via

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

10G BIDI SFP+

6COM offers 10G BIDI modules with transmission distances ranging from 10 to 80 kilometers. These modules are ideal for medium to long-distance transmissions,

Contact Us

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