

## Finland Single-Fiber Bidirectional 10G



### Overview

Enter the 10G BiDi (bidirectional) SFP+ module —an elegant solution that enables full-duplex communication over a single fiber strand using wavelength division multiplexing (WDM). FS offers a comprehensive range of 10G BiDi modules tailored for diverse scenarios. This guide takes a deep dive into how the 10G BiDi SFP+ supports fiber savings, lessens complexity. SFP+ BiDi 10G is a 10-gigabit optical transceiver technology designed to transmit and receive data over a single strand of single-mode fiber, making it an efficient solution for modern fiber-constrained networks. By using bidirectional (BiDi) wavelength division, these modules send and receive. The GIGALIGHT's 10G BiDi SFP+ series of optical transceiver modules are widely used in 10G Ethernet and Optical Transport Networks (OTN OTU2e), and are compatible with 10G CPRI, Synchronous Optical Networks (SONET OC-192 / SDH STM-64), and 10G Fibre Channel, with transmission distances ranging from. Our 10G BiDi SFP+ 10km transceiver provides cost-effective single-fiber connectivity with Tx1330nm/Rx1270nm wavelengths. 2 dB link budget over 10km single-mode fiber. Supporting multi-rate transmission from 1. In this guide, we dive into Fibrecross's portfolio of 10G SFP+ Optical Transceivers, explain how BiDi optics work, compare module.



## Article Content

### SFP+ BiDi 10G Guide: Single Fiber 10G Optical Transceivers

Learn what SFP+ BiDi 10G is, how single-fiber 10G transceivers work, key specs, use cases, and how to choose the right BiDi module.

### UniFi 10G Bidirectional Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a simplex LC UPC connector.

### What is 10G BIDI SFP+ Single-fiber Bidirectional ?

10G BIDI SFP+ optical module is packaged in SFP+, with a transmission rate of 10G, LC simplex interface, and a transmission distance of up to 80 kilometers when used with single-mode

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

Paired with 10A variant for bidirectional operation, this 10G BiDi module delivers 6.2 dB link budget over 10km single-mode fiber. Supporting multi-rate transmission from 1.25 to 11.32 Gbps

### 10G SFP+ BiDi Optical Transceiver | Single Fiber 20-80km

A 10G SFP+ BiDi Optical Transceiver is an optical module that supports 10Gbps bidirectional data transmission over a single fiber using distinct wavelengths (e.g.,

### SFP-1040-WB

The SFP-1040-WB is a BiDirectional single fiber strand 10G SFP+ optical module using Tx:1330nm and Rx:1270nm wavelengths. The transceiver supports all 10G

### The Complete Guide to BiDi Transceiver

BiDi variants are also available in the XFP form factor for 10G. The 25G BiDi transceiver provides 25GBase-BX throughput up to 40km over single

### What is a 10G SFP+ Switch and How to Use It?

This 8-port SFP+ managed switch comes with eight high-speed 10G SFP+ ports and a 10G fiber-to-copper module, making it easier to integrate with

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

This category includes all types of SFP+ 10G transceivers for 10G rate data connections over one strand of SMF, BiDirectional operation (two wavelengths on same fiber).

### SFP-1100-WB SFP+ 10G BiDirectional Optical Module

The SFP-1100-WB is a BiDirectional single fiber strand 10G SFP+ optical module using Tx:1550nm and Rx:1490nm wavelengths and supporting links up to 100Km

[Learn About 10G BiDi SFP+ Optical Transceivers | Carritech Optics](#)

As the demand for high-speed and efficient data transmission grows, 10G BiDi SFP+ (Bidirectional Small Form-factor Pluggable Plus) optical transceivers have emerged as an innovative

[Guide to 10G BiDi SFP+ Optical Transceivers Modules 2025](#)

Our 10G BiDi SFP+ Optical Transceivers Modules deliver full 10 Gb/s over a single strand of single-mode fiber, halving fiber count and simplifying cable management.

[10G single fiber - Alphabridge - Network Infrastructure for India's ...](#)

Overview The Alpha Bridge Technologies 10G Single Fiber SFP (Small Form-factor Pluggable) module is designed to meet the ever-growing demand for high-speed data transmission. Our module

SFP+ 10G transceivers

This category includes all types of SFP+ 10G transceivers for 10G rate data connections, including SR multi-mode, LR single-mode, ER single-mode, ZR, BiDirectional, CWDM and DWDM models.

[10G SFP+ BiDi 10-80km Single-fiber Bidirectional](#)

The GIGALIGHT's 10G BiDi SFP+ series of optical transceiver modules are widely used in 10G Ethernet and Optical Transport Networks (OTN OTU2e), and are

[Guide to 10G BiDi SFP+ Optical Transceivers Modules 2025](#)

How does the Fibrecross 10G BiDi SFP+ module provide 10Gb/s speed through single-mode fiber and support a transmission distance of up to 80 kilometers.

[Cisco 10GBASE SFP+ Modules Data Sheet](#)

A SFP-10G-BX40D-I device is always connected to a SFP-10G-BX40U-I device with a single strand of standard SMF with an operating

[10G BiDi XFP 10km Side A | Single Fiber | EDGEOPTIC](#)

10G BiDi XFP Side A: 1270/1330nm, 10km single fiber, 8dB budget. Cost-effective WDM solution, multi-rate 1.24-11.32 Gbps. Pair with Side B.

[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+ 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.

How to Choose a 10G SFP+ Optical Module

Support for BIDI Technology: Walsun offers optical modules that support BIDI technology, allowing for bidirectional communication over a single fiber, reducing the overall fiber infrastructure

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+ Fiber Transceiver SM 10km

diagnosointiominaisuksilla. Tekniset tiedot: • Complies with the IEEE 802.3ae 10 Gigabit Ethernet Standard • SFP+ multi-source agreement compliant • SFF-8472 diagnostic monitoring interface for

SFP+ BiDi 10G Guide: Single Fiber 10G Optical Transceivers

SFP+ BiDi 10G is a proven and efficient solution for delivering 10-gigabit connectivity over a single strand of single-mode fiber. By using bidirectional wavelength transmission, it helps organizations

Single Strand Mastery: BiDi SFP Architecture

Demystifying the BiDi SFP Working Principle & Wavelengths The architectural brilliance of a Bidirectional (BiDi) SFP lies in its ability to abandon the traditional "dual-highway" fiber model in

10G BIDI XFP Optical Transceivers Explained | Carritech Optics

10G BIDI XFP optical transceivers are compact, hot-pluggable modules that enable 10Gbps bidirectional communication over a single optical fiber. They achieve this by transmitting and

SFP+ 10G BiDirectional optical module, single strand

The SFP-1020-WB is a BiDirectional single fiber strand 10G SFP+ optical module using Tx:1330nm and Rx:1270nm wavelengths. The transceiver supports all 10G

## Contact Us

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