

What waveband does the BX optical module use



Overview

The 1000BASE-BX-D SFP module operates at wavelengths of 1490 nm TX/1310 nm RX, and the 1000BASE-BX-U SFP module operates at wavelengths of 1310 nm TX/1490 nm RX. As networks continue to expand across campuses, access networks, and metro infrastructure, efficient use of fiber resources has become increasingly important. These two SFP modules are used together to permit a bidirectional GE (Gigabit Ethernet) connection using a single strand of SMF cable and LC connectors. It. BX-D and BX-U (BiDi) – These optical transceivers use one optical fiber instead of two for the standards which are mentioned above. Their main differences lie in transmission distance, wavelength. Media (fiber vs copper), wavelength, reach, connector, temperature grade, and even application domain (Ethernet, SONET/SDH, PON, Fibre Channel) all matter. Use the tables below to pick the exact 1G SFP you need—then sanity-check with the ordering checklist at the end.



Article Content

Hot

2.5GBASE-BX BiDi SFP 20km Optical Transceiver - Holight

The 2.5GBASE-BX BiDi SFP is a hot-swappable SFP BiDi transceiver module designed for 2.5Gb/s duplex optical data communications. Provide a transmission distance of 20 km over a

Jun 17, 2026 Hot

Optical Transceivers Guide: SFP, QSFP, CFP Modules

Electrical connection of the CFP modules uses 10×10 Gbps lanes in each direction (Tx and Rx), and optical connection supports 10×10 Gbps for

Jul 16, 2025 Hot

Comprehensive Guide to Optical Splitters

An optical splitter is a crucial passive fiber optic device that splits and combines optical signals. It can distribute the optical energy transmitted through a

Oct 08, 2025 Hot

SFP-GE-BX Optical Transceiver Overall Introduction | FS

In this video, we take an in-depth look at the SFP-GE-BX optical transceiver, focusing on its key specifications and applications in short-distance transmission.

Feb 19, 2026 Hot

SFP Types Explained: 1G Modules, Distances & Selection

Use BiDi to halve fibers, CWDM/DWDM to scale wavelengths, and industrial-temp SKUs for outdoor/harsh sites. With these tables and the checklist,

Mar 14, 2026 Hot

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Aug 20, 2025 Hot

directory-list-2.4.txt/directory-list-2.4.txt at main

Customer stories Events & webinars Ebooks & reports Business insights GitHub Skills

...

Jun 08, 2026 Hot

1000BASE-SX, 1000BASE-LX, 1000BASE-ZX& BX SFP:

This post will focus on several standards for transmission over fiber optic media, especially for SFP modules, including the most commonly

Jun 13, 2026 Hot

Pluggable Transceivers Installation Guide

Transmission distances are provided as a nominal guide only. To determine achievable distances, refer to the device's optical specifications and to the specific characteristics of your fiber installation.

May 15, 2026 Hot

SO-SFP-1000BASE-BX10D-34 & -43

The SO-SFP-1000BASE-BX10D is a bi-directional transceiver solution operating directly on a single-fiber without the need for a separate optical filter. This is achieved by having two transceivers that inject

Nov 08, 2025 Hot

1000BASE-BX SFP 1490TX/1550RX 160km Transceiver Datasheet | FS

This is an optional input used to control the receiver bandwidth for compatibility with multiple data rates (most likely Fiber Channel 1x and 2x Rates). If implemented, the input will be internally pulled down

Aug 05, 2025 Hot

Understanding Optical Modules: Working Principles,

Explore the working principles, structures, and performance metrics of optical modules, essential components of optical fiber communication systems.

Aug 06, 2025 Hot

A Comprehensive Guide to Understanding 1G Optical

1G optical modules play a vital role in modern networking, offering high-speed, reliable, and scalable data transmission. By understanding the

Apr 17, 2026 Hot

Overview of 1000BASE-BX SFP Bidi Transceiver

The GLC-BX-D is a small form factor pluggable module for Gigabit Ethernet 1000BASE-BX and Fiber Channel communications. The GLC-BX-D transceiver operates at 1490Tx/1310Rx

Jan 13, 2026 Hot

Everything You Need to Know About Optical Modules

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules convert electrical signals into optical

Sep 21, 2025 Hot

Pluggable Transceivers Installation Guide

The 1000BASE-BX-D SFP module operates at wavelengths of 1490 nm TX/1310 nm RX, and the 1000BASE-BX-U SFP module operates at wavelengths of 1310 nm TX/1490 nm RX.

Dec 09, 2025 Hot

Differences Between 1000BASE-SX, LX, BX, and ZX SFP Modules

For 1 Gigabit Ethernet, common SFP types include 1000BASE-SX, 1000BASE-LX, 1000BASE-BX, and 1000BASE-ZX. Their main differences lie in transmission distance, wavelength,

Jul 23, 2025 Hot

Differences Between 1000BASE-SX, LX, BX, and ZX SFP Modules

SFP (Small Form-factor Pluggable) modules are widely used in Ethernet, Fibre Channel, and other communication protocols. For 1 Gigabit Ethernet, common SFP types include 1000BASE

Jun 16, 2026 Hot

What Is an Optical Transceiver? Complete Guide to

What metrics denote optical transceivers' performance? To evaluate an optical transceiver's performance, let's use a metaphor: observing the

Nov 18, 2025 Hot

The Differences of 1G Optical Modules: LX vs SX

Uncover the key differences between 1G LX and SX modules, aiding you in making the right choice for your network needs. Embrace the power of 1G

Oct 28, 2025 Hot

Generic Compatible 1000BASE-BX-D CSFP 2-Channel BiDi 1490nm

2-Channel 1000BASE-BX CSFP Transceiver Module (SMF, 1490nm-TX/1310nm-RX, 10km, LC Duplex, DOM) The 2-Channel 1000BASE-BX SFP transceiver provides up to 10km of 1000Base-BX

Apr 02, 2026 Hot

[such/ignore.txt at main · yeerma/such · GitHub](#)

aasdadasda. Contribute to yeerma/such development by creating an account on GitHub.

Feb 11, 2026 Hot

A Guide To Bidi Optical Transceivers

How Does BiDi Works Before delving further into the importance of fiber selection, it is necessary to understand how BiDi optical transceivers work.

Mar 08, 2026 Hot

1G SFP BXU Bi-Directional, Tx1310/Rx1550nm, 10km,

The Miljet MJ-SFPGE-BXU-10, SFP 1000BASE-BX transceiver uses a longer wavelength FP laser combined at 1310nm/1550nm for Single Mode fiber (SMF),

Jul 13, 2025 Hot

Broadcom Compatible 1000BASE-BX-D SFP BiDi

The Broadcom-compatible SFP transceiver provides up to 10km of 1000Base-BX

Aug 14, 2025 Hot

Optical Transceivers Guide: SFP, QSFP, CFP Modules

Complete optical transceiver reference: SFP, SFP+, QSFP28, CFP specifications. Distance ranges, wavelengths, applications for data centers.

Jul 14, 2025 Hot

1000BASE-BX10-D SFP: Downstream Specs Guide

Instead of dedicating one fiber for transmitting and another for receiving, the module uses different optical wavelengths for each direction of traffic. This approach allows both signals to share the same

Apr 07, 2026 Hot

10GBASE-BX BiDi SFP+ 1330nm-TX/1270nm-RX 60km

10GBASE-BX BiDi SFP+ 1330nm-TX/1270nm-RX 60km DOM Simplex LC/UPC SMF Optical Transceiver Module for FS Switches, Product Specification:Part Number -

Nov 11, 2025

Contact Us

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

Website: <https://eedenmarketing.co.za>

Email: info@moletenare-ew.co.za

Phone: +86 138 1658 3346

Address: Ningbo, China

This document is for informational purposes only. Specifications subject to change without notice.

