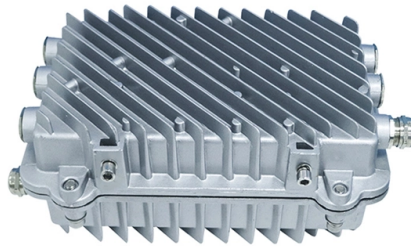


Single-mode single-core optical module 1550



Overview

The 1G SFP BiDi optical module is designed for data transmission using a single single-mode (SM) fiber. It transmits data at speeds of up to 1. It operates at TX 1310 nm/ RX 1550 nm wavelength and has SC/UPC duplex optical connector type. Mouser offers inventory, pricing, & datasheets for Singlemode 1550 nm Fiber Optic Transmitters, Receivers, Transceivers. This blog explores what a 1550nm transceiver is, its. The F-SMF-28 Single-Mode Fiber from Corning (SMF-28e+) is all-glass and supports single-mode light propagation for a 1310/1550 nm operating wavelength. Optimized for access and metro networks, this fiber is compliant with Recommendation ITU-T G. The receiver section uses an integrated InGaAs detector preamplifier (IDP) mounted in an optical header and a limiting post-amplifier IC. With a bend loss considerably lower than SMF-28TM, 1550B-HP is ideal for the video leg in FTTH CWDM and applications such as smaller form factor C and L-band components and low NA ge without notice.



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Single-Mode Fibers 1550 nm Select Cutoff

tight bend radii. With a bend loss considerably lower than SMF-28™, 1550B-HP is ideal for the video leg in FTTH CWDM and applications such as smaller form factor C and L-band components and low

Dec 05, 2025 Hot

huawei-optical-module-supplier-list

Matching products MWD Module, 1310/1550-wideband Other products PACKETpro Embedded Single Core Processor, with SLIMpro Accelerator Low-noise amplifier front-end module with

Jan 10, 2026 Hot

How to check sfp module is single mode or multimode?

When working with fiber optic networks, understanding the type of SFP (Small Form-factor Pluggable) module—whether it is single-mode or multimode—is crucial for ensuring compatibility with your

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Set Up a Fiber-Optic Network in Your Home or Office

Learn about the various fiber-optic components used for running fiber in your house, office, or between buildings. Find out how to use fiber optics for

Feb 04, 2026 Hot

SFP BiDi 1000BASE-BX 1.25Gbps

The 1G SFP BiDi optical module is designed for data transmission using a single single-mode (SM) fiber. It transmits data at speeds of up to 1.25 Gbps, over

Nov 10, 2025 Hot

SFP-1310T-20-SMF

SFP-1310T-20-SMF Fast Ethernet Optical Module > Single mode single fiber > LC port > 1310 nm sending, and 1550 nm receiving > Transmission distance up to 20 km

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1.25G SFP Module, Single Mode SC, TX1550nm/RX 1310nm | Elfcam

This optical module offers a reliable and durable solution for professional installations. Designed for fiber optic technicians and demanding network environments.

Sep 09, 2025 Hot

Polarization-Maintaining Single Mode Optical Fiber

Thorlabs offers both PANDA and Bow-Tie Single Mode Polarization-Maintaining (PM) fiber. These two fibers are named based on the stress rods used. Stress rods run

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What Is a 1550nm Optical Transceiver and How Does It

Operating at a wavelength near 1550 nanometers, it enables high-speed data transmission across single-mode fiber (SMF), especially suited for

Dec 02, 2025 Hot

SFP-10G-ER 1550nm 40km DDM Optical Transceiver

In order to use different type of fiber, we also classify optical transceiver modules into single-mode optical modules and multi-mode optical modules. Single-mode

May 17, 2026 Hot

SFP 1.25G 1550nm/1310nm Single mode Optical Transceiver

8. Digital Diagnostics / Digital Optical Monitoring The transceiver provides serial ID memory contents and diagnostic information about the present operating conditions by the 2-wire serial interface (SCL,

Jan 11, 2026 Hot

Top Optical Modules for POTN Deployment: SFP, QSFP, and OSFP

Connector interface: LC duplex, MPO, or MTP, depending on whether the fiber is single-mode or multi-mode. Power and thermal envelope: The heat generated by high-speed optics affects

Nov 07, 2025 Hot

The Key Differences Between 1-core, 2-core, Single

Understanding 1-core, 2-core, Single Mode, and Multi-mode optical modules helps you design efficient networks. Whether you're working on long

Jun 11, 2026 Hot

What is single mode and multi-mode?

Definition and Structure Single-mode fiber (SMF) is an optical fiber designed to carry light directly down the fiber with minimal dispersion. It has a very small core diameter, typically around 9 microns, which

Jun 01, 2026 Hot

Single-Mode vs Multi-Mode Transceivers: How to choose Correctly

Single-Mode Transceivers: Wavelength and Core Size Operating wavelength. Single-mode transceivers commonly operate at 1310 nm and 1550 nm; the broader single-mode range spans roughly

Mar 10, 2026 Hot

Fiber Optic Transceiver: The Simple Guide to What It Is

What Is a Fiber Optic Transceiver? A fiber optic transceiver (also called an optical transceiver) is a compact module that both transmits and

Jul 09, 2025 Hot

1000BASE-ZX SFP 1550nm 80km Transceiver Datasheet | FS

1G SFP transceiver module is individually tested on corresponding equipment such as Cisco, Arista, Juniper, Dell, Brocade and other brands, and passes the monitoring of FS intelligent quality

Oct 24, 2025 Hot

F-SMF-28 Optical Fiber

The F-SMF-28 Single-Mode Fiber from Corning (SMF-28e+) is all-glass and supports single-mode light propagation for a 1310/1550 nm operating wavelength.

Mar 25, 2026 Hot

Singlemode 1550 nm Fiber Optic Transmitters, Receivers, Transceivers

Mouser offers inventory, pricing, & datasheets for Singlemode 1550 nm Fiber Optic Transmitters, Receivers, Transceivers.

Apr 25, 2026 Hot

12 Core Single Mode Fiber Optic Cable

Shop high-quality 12 core single mode fiber optic cables for reliable communication. Enjoy durable, efficient, and cost-effective solutions for your needs.

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Single Mode SFP vs Multimode SFP: What the

A single-mode SFP is specially used with the 9/125µm single-mode fiber (SMF) but can not be used with multimode fiber cable. It utilizes ultra-low

May 13, 2026 Hot

Cisco 10GBASE SFP+ Modules Data Sheet

When shorter distances of single-mode fiber are used (<40km), an inline optical attenuator must be used to avoid overloading and damaging the

Jan 27, 2026 Hot

The Technological Evolution and Application Trends of

Future optical modules will continue evolving toward greater density, higher speeds, affordability, extended reach, and ease of maintenance. With

Dec 23, 2025 Hot

Recommendation ITU-T G.652 (08/2024)

This document outlines the specifications for a single-mode optical fiber and cable designed for use around the 1310 nm zero-dispersion wavelength, suitable for

Nov 13, 2025

Contact Us

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