

Single-mode optical module km



Overview

The SMF SFP modules support long-range data transmission, with distances ranging from 2 km to 120 km, depending on the model. They are well-suited for extensive networks that require fast, reliable connectivity across wide areas. Power Consumption CLASS 1 LASER PRODUCT, IEC/EN 60825-1:2014 Do not look into the ends of the fiber optic cable or SFP module while converters are. In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed to carry only a single mode of light - the transverse mode. Modes are the possible solutions of the Helmholtz equation for waves, which is obtained by combining. The Small Form Factor Pluggable (SFP) Transceiver from Intellinet Network Solutions provides a great combination of performance and affordability. Also known as a mini-Gigabit Interface Converter (GBIC), this industrial SFP module's metal housing offers increased durability while reducing. BiDi single-mode SFP optical module, 1Gb speed, SC simplex connector, 20 km range, laser Tx:1310nm Rx:1550nm. Please specify the device model. Several versions of. Our 10G BiDi SFP+ 10km transceiver provides cost-effective single-fiber connectivity with Tx1330nm/Rx1270nm wavelengths. Paired with 10A variant for bidirectional operation, this 10G BiDi module delivers 6.2 dB link budget over 10km single-mode fiber.

Article Content

May 01, 2026

Multi-mode optical module VS Single-mode optical

This tutorial will introduce the differences between these two types of optical modules in detail.

Feb 27, 2026

Single-Mode Fiber Cable Guide: Types, Specs & Selection

This comprehensive guide explores Single-Mode Fiber Optic Cable, covering technical specifications, deployment scenarios, and best practices to help you optimize your fiber infrastructure

Feb 21, 2026

China 2018 Mataas na kalidad na SFP+ Optical Module

2018 Mataas na kalidad na SFP+ Optical Module - 1.25G Single Mode 20Km DDM | Dual Fiber SFP Transceiver JHA3420D - JHA

May 31, 2026

Optics Transceiver Module Market 2025

Key product categories include single-mode optical modules for long-distance communication and multi-mode optical modules for shorter-range applications. Market growth is driven by surging demand for

Sep 11, 2025

1G SFP Transceiver | Difference SMF vs. MMF

In this blog, BlueOptics introduces you to both fiber types of SFP modules, multi-mode and single-mode, and highlights the aspects in which they differ.

Feb 01, 2026

Huawei Optical Transceiver, SFP+, 9.8G, Single-mode Module

This plug-in SFP+ transceiver module ensures high-speed data transfer rates of up to 10 Gbps, meeting the demands of modern data networks. With an optical wavelength of 1310 nm, it supports a

Oct 12, 2025

MikroTik S+31DLC10D 10G SFP+ Single-Mode LC Optical

10G SFP+ single-mode optical transceiver with duplex LC connector, 1310nm wavelength, and up to 10km transmission distance for enterprise and ISP fiber networks.

Nov 05, 2025

Ubiquiti 1 Gbps Bidirectional UACC-OM-SM-1G-S-2 | Cendirect

Ubiquiti 1 Gbps Bidirectional Single-Mode Optical Module - For Data Networking, Optical Network - 1 x LC Simplex 1000Base-BiDi Network - Optical Fiber - Single-mode - Gigabit Ethernet - 1000Base-BiDi

Dec 17, 2025

100G LR4 Single-Mode Optical Module

QSFP28 transceiver that supports 100G connections up to 10 km using single-mode fiber with a duplex LC UPC connector.

Apr 08, 2026

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 with LC/UPC

Feb 18, 2026

Industrial GbE Fiber SFP Optical Transceiver Module Single-Mode 10 km

Small Size For High-Density Fiber Connections Multi-Vendor Compatible Hot-Pluggable Digital Diagnostics Monitoring Equipped Even For Challenging Environment Conditions This transceiver supports standard digital diagnostics monitoring (DDM) functions, also known as digital optical monitoring (DOM). That gives the user the ability to monitor parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage, in real time. See more on [intellinetsolutions](#) Category: Repeaters & Transceivers [fibermarkt](#)

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 03, 2025

What is QSFP & QSFP+ Transceiver: An Ultimate Guide

Single Mode QSFP: The SMF type typically features an LC connector and a WDM laser, suitable for 9/125 single-mode fiber cabling, offering a

Apr 11, 2026

Single-mode optical fiber

Unlike multi-mode optical fiber, single-mode fiber does not exhibit modal dispersion. This is due to the fiber having such a small cross section that only the first mode

Oct 14, 2025

1G SFP LX 1310nm 20km Single mode Transceiver

Featuring a built-in Semtec chip and reliable FP laser / PIN receiver, the SFP module delivers low power consumption and stable optical links for 1G single mode

Aug 31, 2025

SFP+ LR Ultimode module 10 Gbit/s, single mode, 1310 nm, 10 km

This SFP+ module capable of 10 Gbps transmission speed is dedicated for the use of two single-mode fibers (duplex transmission). The maximum transmission distance is 10 kilometers.

Feb 13, 2026

SFP Transceiver

Utilizing LC connectors and operating at a 1310nm wavelength, it enables high-speed data transmission over single-mode fiber for distances up to 10 kilometers. This module provides a reliable long-reach

Sep 02, 2025

CUDY SM100GSA-40 1.25G SFP Single-Mode Optical Module

SFP transceiver that supports 1G connections up to 40 km using single-mode fiber with a duplex LC connector. Max 1.25 Gbps Speed Duplex LC Connector Compatible with SFP Slots 40 km Fiber

Jan 25, 2026

1G Bidirectional Single-Mode Optical Module

SFP transceiver that supports 1G connections up to 3 km using single-mode fiber with a simplex LC UPC connector.

May 14, 2026

SFP Optical Module 1.25G Single Optical Fiber 20km

This is a standard SFP optical module. It uses a single mode optical fiber and the speed rate can up to 1.25Gbps, transmission distance up to 20 km.

Jul 03, 2025

10 Gigabit Fiber SFP+ Optical Transceiver Module

10 Gigabit Connectivity Intellinet Network Solutions 10GBase-LR Fiber SFP+ Optical Transceiver Module, model 507479, is the right choice when it comes to

May 25, 2026

What Is an SFP Module? — Complete Guide to SFP, SFP+ & SFP28

□ What Is an SFP Module? An SFP module (Small Form-factor Pluggable) is a removable, standardized transceiver that plugs into an SFP cage or slot on networking devices such

May 01, 2026

Optical Transceiver Market Insights and Growth Report

A single-mode fiber transceiver is a self-contained optical transceiver module that can receive and send data over single-mode optical fiber cables that enable

Sep 22, 2025

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

Dec 22, 2025

Ubiquiti 10 Gbps UACC-OM-SM-10G-S-2 | Cendirect Canada

Ubiquiti 10 Gbps Bidirectional Single-Mode Optical Module - For Data Networking, Optical Network - 1 x LC Simplex 10GBase-BiDi Network - Optical Fiber - Single-mode - Gigabit Ethernet - 10GBase-X - 10

Oct 16, 2025

Single-mode optical fiber

OverviewCharacteristicsHistoryConnectorsFiber optic switchesQuadruply clad fiberExternal links

Unlike multi-mode optical fiber, single-mode fiber does not exhibit modal dispersion. This is due to the fiber having such a small cross section that only the first mode is transported. Single-mode fibers are therefore better at retaining the fidelity of each light pulse over longer distances than multi-mode fibers. For these reasons, single-mode fibers can have a higher bandwidth than multi-mode fibers. Equipment for single-mod

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