

# Single-mode fiber optic transceiver gigabit speed 80km



## Overview

Our 10G Base ZR SFP+ transceiver provides ultra-long 80km transmission over single-mode fiber for wide area networks and carrier applications. Operating at 1550nm wavelength with robust 23 dB link budget, this 10G Base ZR module supports multi-rate operation from 1. This module provides a reliable long-reach fiber optic connection. The Cisco 100GBASE Quad Small Form-Factor Pluggable (QSFP) portfolio offers customers a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider. The QSFP28-100G-ZR4 transceiver helps connect devices far away. This module is small and easy to swap. You can change it without turning off your network. The QSFP28-100G-ZR4 uses LAN-WDM technology. It. D-Link's new line of Gigabit Interface Converters (GBICs) and Small Form-Factor Pluggables (SFPs) transceivers represent an industry leading combination of performance and affordability. SFP+: For higher speeds from 8.

## Article Content

### 100G Optical Transceiver, Optical Transceiver Module

The 100G FR1 SFP56-DD optical transceiver, 100G SFP56-DD FR1 is designed for using in 100-Gigabit Ethernet links up to 2km over Single-Mode Fiber (SMF). It is

Dell networking transceivers and cables

Our newest family of optical transceivers are 400GbE QSFP56-DD. These transceivers may be short-reach (SR4.2-ON, SR8, and VR4) over multimode fiber or intermediate-reach (FR4, EDR4, LR4,

### XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM

The XG-SFP-LR-SM1310 is aligned to IEEE 10GBASE-LR optical specifications and supports a link length of up to 10 kilometers over a single-mode fiber (SMF) with an LC connector. It adopts the

### SFP 1000Base-LX Single-mode Fibre Transceiver

The DEM-315GT is a high performance 1550nm singlemode SFP (mini-GBIC) transceiver. Supporting full duplex, Gigabit speeds on singlemode fiber for

Singlemode transceiver modules buy online

Discover our diverse selection of singlemode transceiver modules, which have been specially developed for long-lasting, reliable and powerful fibre optic communication.

### SFP Optical Transceivers: How Pluggable Optics Are Reshaping

1. Introduction: The Pluggable Revolution In the era of hyperscale AI computing and always-on global connectivity, the optical transceiver module has quietly become one of the most

### QSFP+ 40G Optical Transceivers, 40G Fiber Optic Transceiver

40G QSFP+ BIDI optical transceiver module is a pluggable optical transceiver with a duplex LC connector interface for short-reach data communication and interconnect applications using Multi

### datacenter optical transceiver laser: 2026 Guide

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### A Deep Dive into the QSFP28-100G-ZR4 Optical

QSFP28-100G-ZR4 transceiver enables 100G data transmission up to 80km using single-mode fiber, ideal for long-distance, high-speed network

## Single Mode vs Multimode Fiber, What is The

Learn the key differences between single mode vs multimode fiber cables and choose the right one for your fiber optic system.

## 100G QSFP28 Transceiver Modules | Optical

FS offers a growing portfolio of 100G QSFP28 modules. The 100G QSFP28 module solution provides high-performance 100GbE connectivity for data centres,

## Cisco SFP Modules for Gigabit Ethernet Applications

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit Ethernet Applications.

## Gigabit SFP Module: A Complete Guide to 1G SFP Transceivers

A gigabit SFP module is a hot-pluggable transceiver designed to deliver 1Gbps Ethernet connectivity over fiber or copper, and it remains one of the most widely deployed networking components in

## How to tell the difference between single mode and multimode fiber ...

It works with copper Ethernet cables or fiber optical cables. On the fiber optics side, there are single mode SFP module and multimode SFP module, which allows users to select the

## SFP Transceiver Optical Fiber Single-Mode LC 1000Base-BX

One 1000Base-BX single-mode LC fiber port Fiber distance support: up to 80 km (50 mi.) Wavelengths: receive (RX), 1550 nm; transmit (TX), 1490 nm Standard SFP format Supports hot-plugging

## Gigabit Ethernet

Gigabit Ethernet was the next iteration, increasing the speed to 1000 Mbit/s. The initial standard for Gigabit Ethernet was produced by the IEEE in June 1998 as

## What is QSFP & QSFP+ Transceiver: An Ultimate Guide

LR4 usually supports a 10km distance via single-mode fiber. 40GBASE-ER4: Very similar to the 40GBASE-LR4, ER4 supports extended

## Juniper SFPP-10GE-ZR 10GBASE-ZR SFP+ Transceiver - 80km Single-Mode ...

The Juniper SFPP-10GE-ZR 10GBASE-ZR SFP+ Transceiver Module is a high-performance optical solution designed for ultra long-distance 10 Gigabit Ethernet connectivity over single-mode fiber.

## OPT1250-55803xxR V160608 1000BASE-ZX 3.3V 1X9 SC& ST& FC Single Mode ...

Description The OPT1250-55803xxR series are high performance and cost-effective fiber optical transceiver modules for high-speed communication applications such as 1000Base-ZX Gigabit

100G Optical Transceiver

Explore the details, specifications and video of our 100G Optical Transceiver, and order high-quality 100G Optical Transceiver from our factory directly at

Single Mode Fiber: OS1 vs OS2 Fiber

This means they are physically compatible with standard single-mode connectors (LC, SC, FC, ST) and crucially, with the same optical transceivers.

SFP optical transceivers

The SFP-7080-55 is a 1000Base-ZX single-mode Gigabit Ethernet rate SFP transceiver using 1550nm wavelength and reaching up to 80Km distance on

SFP Optical Transceiver | SFP Optical Module | Perle

By eliminating the need to maintain surplus units/ devices of various fiber types for network repairs or upgrades Small Form Pluggable Optical Transceivers reduce

10G Base ZR SFP+ Transceiver | 80km SMF | 1550nm

Our 10G Base ZR SFP+ transceiver provides ultra-long 80km transmission over single-mode fiber for wide area networks and carrier applications. Operating at

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP100 ZR4 supports link lengths of up to 80km # over a standard pair of G.652 single-mode fiber with duplex LC connectors. The 100

1G BiDi SFP

GIGALIGHT's 1G BiDi SFP series optical transceiver modules support a speed of 1.25Gbps, widely used in Gigabit Ethernet, 1G fiber channel, and SDH. They can

10 Gigabit Ethernet

Optical fiber A Foundry Networks router with 10 Gigabit Ethernet optical interfaces (XFP transceiver). The yellow cables are single-mode duplex fiber optic

1 Gigabit Singlemode SFP Fiber Optic Transceivers

Our 1 Gigabit Singlemode SFP Transceivers offer high-performance, reliable connectivity for singlemode fiber optic networks. These transceivers are

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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 80 kilometers.

## Contact Us

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