

# Gigabit single-mode optical module 80km range 10g



## 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. If the SFP-10G-ER-1310 is connected to a 10Gbase-ER standard optical module (1550nm, 10GE, 40km), the maximum transmission distance is only 20km due to different specifications such as wavelength and receiving sensitivity. This module is designed for single mode fiber and operates at a nominal DWDM wavelength from 1528nm to 1566nm as specified by the ITU-T. The FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service Providers (ISPs) applications.



## Article Content

Jun 11, 2026

10 Gigabit Ethernet

10 Gigabit Ethernet Router with two dozen 10 Gigabit Ethernet ports and three types of physical-layer module 10 Gigabit Ethernet (10GE, 10GbE, or 10 GigE) is a

Oct 23, 2025

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What is an SFP Optical Module? The Complete Guide to

The complete technical guide to SFP optical modules (SFP, SFP+, SFP28). Understand the core function, compare data rates (1G to 25G), learn

Sep 08, 2025

world.taobao : conglu sfp 10g single-mode single-mode single

Conglu Sfp+10G 10g Single-Mode Single-Fiber 20/40/80 Kilometers Optical Module Lc/Sc Port Bidi Single-Core Two-Way 1270/1330Nm Compatible with Full Range of Switch Network Card Huawei

Oct 04, 2025

10GBase SFP Transceiver

Er wurde für Anwendungen mit erweiterter Reichweite (ER) von bis zu 80 km entwickelt und ist mit der NT328G-Serie von N-TRON® und anderen 10-Gigabit-Ethernet-Switches kompatibel und bietet

Mar 27, 2026

What is SFP-10G-ZR? Your Ultimate Guide to Long

The SFP-10G-ZR optical module is an indispensable tool for network engineers designing high-speed, long-distance infrastructure. Its ability to push

Jun 02, 2026

Optic Modules Datasheet

Features and Benefits The following table lists the different pluggable optic modules and supported platforms, along with the technical specifications for each.

Aug 16, 2025

SFP-10G-ER40 Single Mode 10G 40km SFP Transceiver Module 10G

Product Summary SFP-10G-ER40 Single Mode 10G 40km SFP Transceiver Module 10G SFP+ 1550nm 40km Product Description SFP+ ER 40KM fiber optic transceiver is designed for use in 10-Gigabit

Sep 14, 2025

10G SFP+ DWDM Optical Transceiver Module, 80KM, 100GHz LC

This module is engineered for long-haul, high-density 10 Gigabit Ethernet and telecommunications networks, providing a reliable and cost-effective solution for extending bandwidth over existing single

Jan 31, 2026

Dual Fiber Module LC SFP Transceiver Hilinktech 10G SFP+ 1550nm

Optic SFP+ Transceiver Module Mikrotik 1550nm 10G 80Km SFP With DDM Features Compliant with SFF-8413 and IEE802.3ae Data rate selectable  $\leq 4.25\text{Gbps}$  or  $9.95\text{Gbps}$  to  $10.3\text{Gbps}$  bit rates Cooled

Aug 26, 2025

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

Jul 07, 2025

10G SFP+ ZR, 1550nm, 80km, DDM, LC/UPC Duplex, Single Mode,

With this Mini-Gbic you can carry out installations up to 80km away using Single Mode optical fiber (SMF) using two fibers through fused cables and optical cords in Distributors (DIO/DGO).

Mar 02, 2026

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service

Mar 16, 2026

10G SFP+ Optical Transceiver Modules | AscentOptics

AscentOptics' 10G SFP+ modules offer customers a wide variety of 10 Gigabit Ethernet connectivity options that are compact, hot-swappable, and flexible to

Apr 21, 2026

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

Dec 31, 2025

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

SFP Modules vs Fixed-Port Transceivers Unlike fixed-port transceivers, which are permanently integrated into network hardware, gigabit SFP modules are interchangeable and hot-pluggable:

Jun 13, 2026

Gigabit Ethernet

Other, non-standard higher-powered single-strand optics commonly known as "BiDi" (bi-directional) utilize wavelength pairs in the 1490/1550 nm range, and are

Sep 15, 2025

Arista Optics Modules and Cables

25 Gigabit Ethernet SFP25 Optical Specifications ... When connecting 25G-MR-XSR/LR optics to legacy fixed rate 10G optics, attenuation may be required to ensure the optical input power to the 10G

Aug 18, 2025

40KM 1550nm Single Mode Duplex Gigabit Optical Module LC/SC

Key attributes Type Fiber Optic Transceivers Connector Type LC Use FTTX Model Number BT-OC24-40+ Brand Name BTON Place of Origin Guangdong, China Warranty Time 3Years Data Rate

Mar 19, 2026

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

Apr 14, 2026

Wholesale Optical Transceivers Module | 100G

10 Gigabit XFP BIDI Optical Transceiver T1270nm R1330nm 40KM Optical Transceiver Module|SFP+ 10G Single Fiber Optical Transceiver 80km

Sep 18, 2025

Accortec 10GBASE-DWDM 1534.25nm (ITU Channel 54) SFP+ Optics Module ...

Ethernet 10GBase-DWDM Cabling Supports 10 Gigabit Ethernet Networking Data Transfer Speeds up to 10Gbps This Arista Networks SFP-10G-DZ-34.25-ACC compatible SFP+ transceiver provides

Jan 09, 2026

10G SFP+ 80 km DWDM Optical Transceiver Datasheet

10G SFP+ 80 km DWDM Optical Transceiver Datasheet Overview The T1-SFP-10G-DWDM80-Cxx is a high performance, cost effective module supporting data rate of 10Gbps and 80km transmission

Jan 19, 2026

10GE SFP+ Optical Modules

Single-fiber bidirectional (BIDI) optical modules must be used in pairs. For example, SFP-10G-BXU1 must be used with SFP-10G-BXD1.

Oct 10, 2025

TSFP+-10G-120 10Gigabit 120km ZR+ Long Haul Transceiver 10G

Key attributes Type Fiber optic module Use 10GBASE-ZR+ Network Wired LAN Model Number TSFP+-10G-120 Brand Name TOP-TRANS Place of Origin Guangdong, China Warranty Time 3 Years

Dec 04, 2025

SFP+ Optical Transceiver Modules (10G-SR/LR)

Amphenol SFP Optical Modules • SFP+ Optical Modules from Cables on Demand are Now Available in both Short Range (SR) Multimode and Long Range (LR)

May 24, 2026

Sfp Modules

10G BIDI 10/20/40/60/80KM SFP Module SM LC 1270/1330nm Single Mode Single Fiber Optic module Compatible with Cisco Switch ₱1,188.00 62% Off Voucher save 62% 71 sold

## Contact Us

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