

80km Single-Core Optical Module Divided into Near and Far Ends



Overview

Explore the 100G QSFP28 ZR4 1310nm 80km LC optical module, featuring LWDM4 technology, 100Gbps speed, and up to 80-90km reach. Ideal for data centers, metro networks, and long-distance optical communications. The 80km SFP is a compact, hot-pluggable optical transceiver module standardized for long-distance fiber optical communication, with a maximum single-fiber transmission distance of 80 kilometers as its core performance indicator. It is designed to meet the interconnection needs of medium and long-haul networks. An SFP (Small Form-factor Pluggable) module transmits data over fiber using specific wavelengths and power levels, which directly influence how far the signal can travel before degradation occurs. Think of it as the “translator” for your network equipment, converting electrical signals into optical signals. 100GBASE-ZR4 and Fiber Channel 1x SM-LC-L FC-PI. It is with the SFP 20-pin connector to allow hot plug capability.



Article Content

10G BiDi SFP+ 1490nm-TX/1550nm-RX 80km Transceiver Datasheet

The high performance 1490/1550nm 1550/1490nm cooled EML transmitter and high sensitivity APD receiver provide superior performance for Ethernet applications at up to 80km links. The SFP+

All About the SFP-10G-ZR: Understanding the 1550nm

The SFP-10G-ZR optical module offers 10G data rate, 1550nm wavelength, and 80km reach, perfect for long-haul telecom and enterprise network solutions.

10G SFP+ module SM 20KM 40KM 80KM TX/RX

10G SFP+ module SM 20KM 40KM 80KM TX/RX 1270/1330nm, single fiber Bidi, LC port DDM SFP transceiver The SFP transceivers are high performance, cost

1.25G BiDi SFP 80km Side B | Single Fiber | EDGEOPTIC

EDGEOPTIC 1.25G BiDi SFP Side B: 80km SMF, 1550/1490nm wavelengths, 22dB link budget, 100M-1.25G rates. LC/UPC connector, 0-70°C. Pair with Side A.

1.25G BiDi SFP 80km Industrial Side A

EDGEOPTIC 1.25G BiDi SFP 80km Side A: 1490/1550nm, 22dB link budget, -40 to 85°C. Industrial single-fiber solution, pair with Side B.

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

This guide delves deep into what the SFP-10G-ZR is, its technical specifications, core applications, key advantages, and how choosing a high

OC-3/STM-1 SFP 80km | Ultra Long-Reach | EDGEOPTIC

OC-3/STM-1 SFP 80km Transceiver Description Our EDGEOPTIC 155M-SFP-80D is a multi-vendor compatible OC-3/STM-1 SFP dual-fiber optical module designed for SONET/SDH and Fast Ethernet

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

100 Gb/s QSFP28 ZR4 80 km Transceiver

8 MSA form factor RFC2544 compliant Ascent's QSFP28-100G-LP80 is designed for 80. m optical communication applications. This module contains 4-lane optical transmitter, 4-lane optical

Enabling Long-Reach 10G Connectivity: The 80km

The CC-PII448L-xD 80km SFP+ Transceiver bridges the gap between high-speed performance and long-distance requirements. By integrating cutting

Product Specification SFP 1G 80km LC Transceiver

100GBASE-ZX and Fiber Channel 1x SM-LC-L FC-PI. It is with the S P 20-pin connector to allow hot plug capability. This module is designed for single mode fiber and operates at a nominal wave length

SFP Optical Transceiver Modules for Long Distance: A

Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission. Compare LX, EX, ZX models and

Applications and Development of Multi-Core Optical

Multi-core optical fiber, with its ability to transmit multiple signals simultaneously, has emerged as a promising solution to meet this demand.

100G BiDi 80KM Optical Module for Long-Haul Links

Technological Breakthroughs: Single - Fiber Bidirectional + Long - Distance Optimization to Address Core Industry Pain Points The core

1.25G SFP 80km Single Mode Transceiver specification

The SFP transceivers are high performance, cost effective modules supporting data rate of 1.25Gbps and 80km transmission distance with SMF. The transceiver consists of three sections: a DFB laser

Application and development of the second generation

In the context of the continuous progress of Internet technology and the increasing demand for network transmission speed, 400G FR4 optical module

SFP Distance Explained: Real-World Range, Limits, and Optics

Understand SFP distance, fiber optic range, and real-world limits of SR/LR modules. Learn how wavelength, fiber type, and optics affect performance.

100G QSFP28 ZR4 1310nm 80km LC Optical Transceiver Detailed

Explore the 100G QSFP28 ZR4 1310nm 80km LC optical module, featuring LWDM4 technology, 100Gbps speed, and up to 80-90km reach. Ideal for data centers, metro networks, and

QSFP+ 40G ZR4 Optical Transceiver Module 80km

Asterfusion 40G QSFP+ ZR4 optical transceiver modules support 40GBASE-ZR4 Ethernet. QSFP+ 40G 80km optical modules are designed for Ethernet,

10G BiDi SFP+ 80km | Tx1490/Rx1550 | Single Fiber

Compatible 10G BiDi SFP+ for 80km single fiber. Tx1490/Rx1550nm, 23dB budget, 50% fiber savings. Works with 80+ brands.

80km SFP Modules: Core Applications & Technical Essentials

The 80km SFP is a compact, hot-pluggable optical transceiver module standardized for long-distance fiber optical communication, with a maximum single-fiber transmission distance of 80

High-Speed Optical Module with 80 km Transmission

This optical communication module supports 4-lane transmission over 80 km, ideal for high-capacity, long-distance applications.

Wavelength and Transmission Distance of Optical

The transmission distance of optical transceiver modules is divided into short distance, medium distance, and long distance. Usually, short-distance

The Ultimate Guide to SFP Modules (2026): Types, Speeds

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right transceiver for Cisco, Juniper, and more.

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

Compatible 10G Base ZR SFP+ for 80km single-mode fiber. 1550nm, 23dB budget, IEEE 802.3ae. Works with 80+ brands.

CWDM 80Km Gigabit SFP (1471-1611nm)

Buy the CWDM 80Km Gigabit SFP (1471-1611nm) from ROBOfiber for reliable 1G Ethernet connections over single-mode fiber up to 80Km. Features digital

SFP 80km Modules: Performance Analysis of Premium Optics

Explore how SFP 80km optical modules deliver reliable long-distance fiber connectivity. Learn key specifications, performance metrics, and deployment insights.

Product Specification SFP 1G 80km LC Transceiver

The SFP 1G 80km LC single mode transceivers is small form factor pluggable module for bi-di-rectional serial optical data communications such as Gigabit Ethernet 1000BASE-ZX and Fiber Channel 1x

Contact Us

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