# 80km Optical Module Product Introduction



## Overview

Explore Svelol's 25G SFP28 ZR 80KM optical modules—dual-fiber & single-fiber BIDI—enabling high-speed, long-haul transmission for 5G, data centers & metro networks. Discover key differences & applications. BIDI for Long-Haul Networks | Svelol Driven. With its leading technology, ETU-LINK has launched 25G SFP28 ZR 80KM dual-fiber optical module and 25G SFP28 BIDI ZR 80KM single-fiber optical module, which have become the preferred solutions for data centers, metropolitan area networks and 5G fronthaul fields with their 80km long-distance. Among the optical solutions designed for extended reach, SFP 80km modules are widely used to support stable Gigabit Ethernet transmission over single-mode fiber across long spans without intermediate amplification. The Cisco QSFP28 100G ZR module expands the portfolio of digital coherent optics (DCO) modules to connect QSFP28. Tokyo, Japan, September 26, 2025 - NEC Corporation (NEC; TSE: 6701) has expanded its lineup of optical transceivers for 25Gb/s transmission with the commencement of sales for the "25G SFP28 80km BiDi" capable of 80km transmission. This product enables bi-directional data transmission over a single.

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## Article Content

25G 80km Dual Fiber & BiDi SFP28 Transceivers: Technical

Svelol''s 25G SFP28 ZR 80KM dual-fiber and BIDI optical modules represent a significant advancement in long-haul optical communication, combining distance, efficiency, and reliability.

25G 80km Dual Fiber & BIDI Optical Module Introduction

Driven by 5G, cloud computing and digital transformation, optical modules, as core components of high-speed communications, are evolving

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.

25G 80km Dual Fiber & BIDI Optical Module

The launch of 25G 80km dual-fiber and BIDI optical modules marks a double breakthrough for ETU-LINK Optical Communications in the fields of long

Cisco QSFP28 100G ZR Digital Coherent Optics Module Data Sheet

Cisco QSFP28 100G ZR extends 100GbE coherent links from QSFP28 ports reaching up to 80km over dark fiber and up to 300km over amplified DWDM links.

NEC Launches 25Gb/s SFP28 Bi-directional Optical

NEC Corporation (NEC; TSE: 6701) has expanded its lineup of optical transceivers for 25Gb/s transmission with the commencement of sales for

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

SFP-GE-ZX80-SM1550/SM1490 BIDI 1.26G 80KM LC

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

100Gb/s QSFP28 ZR4 BIDI 80km

Reversely on the receiver side, the module de-multiplexes a 100Gb/s optical input into 4 channels of LAN WDM optical signals and then converts them to 4 output

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100G QSFP28 ZR4 80km Optical Module

HTFuture''s 100G QSFP28 ZR4 Optical Module offers 80km SMF transmission at 100Gbps, perfect for high-speed data centers.

Boost your 80km links to 100G with QSFP-100G-ZR4-S

Conclusion Cisco''s broad portfolio of 100G optical modules provides network operators and service providers with a comprehensive solution for their

25G SFP28 BIDI ZR 80km Optical Module: The New

As an optoelectronic device with high performance and long-distance transmission capability,optical modules play a crucial role in modern data

QSFP28-100G-ZR4 80km Optical Transceiver Module

TARLUZ QSFP28-100G-ZR4 optical transceivers are high-performance, pluggable, four-channel QSFP28 optical modules designed for linkage of 100Gbps Ethernet

NEC Launches 25Gb/s SFP28 Bi-directional Optical

Tokyo, Japan, September 26, 2025 - NEC Corporation (NEC; TSE: 6701) has expanded its lineup of optical transceivers for 25Gb/s transmission with the

QSFP28 100G BIDI ZR4 80KM Optical Module

QSFP28 100G BIDI ZR4 80KM optical module,extending the transmission distance to 80 km,using a single core fiber to achieve upstream and downstream two-way data transmission.

Enabling Long-Reach 10G Connectivity: The 80km

In today''s data-driven world, the demand for high-speed, reliable, and long-distance optical connectivity continues to grow. The CC-PII448L-xD 10Gb/s

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

100G BIDI 80KM optical module delivers cost-effective long-distance transmission for DCI, 5G, and backbone networks with high reliability.

100G BIDI 80KM Optical Module for Data Center and Telecom Networks

High-performance 100G BIDI QSFP28 ZR4 optical module for 80km single-fiber transmission. Ideal for data center interconnection, 4G/5G base station backhaul, and IoT networks.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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