

Single-mode fiber optic transceiver gigabit speed 80km



AI Overview

Single-mode SFP transceivers can deliver gigabit Ethernet over distances up to 80 km using 1310nm or 1550nm wavelengths with LC connectors.

Key Features

- Data Rate: Supports 1 Gbps (Gigabit Ethernet) for high-speed network communication .
- Distance: Capable of transmitting data over up to 80 km on single-mode fiber, suitable for long-haul connections .
- Wavelength: Commonly operates at 1310 nm (e.g., GSFIBER-SFP-80K) or 1550 nm (e.g., D-Link DEM-315GT), which are standard for long-distance single-mode fiber .
- Connector Type: Typically uses LC duplex connectors, ensuring compatibility with most networking equipment .
- Form Factor: Available in SFP (Small Form-Factor Pluggable) modules, which are hot-pluggable for easy installation and maintenance .
- Durability: Many models feature metal housings to reduce EMI and enhance reliability .

Applications

- Enterprise Networks: Connecting switches, routers, and servers across campuses or multiple buildings.
- Telecommunications: Long-distance point-to-point links between network nodes....

Article Content

Aug 11, 2025

Optical Modules for Huawei S Series Switches

A multi-mode optical module cannot use a single-mode optical fiber. This is because a single-mode optical fiber is thin and may

Dec 29, 2025

1000BASE-ZX SFP 1550nm 80km Industrial Transceiver Datasheet | FS

Description The SFP1G-ZX-55 series single-mode transceiver is small form factor pluggable module for serial optical data

Feb 27, 2026

ipolex Gigabit Single-Mode LC Fiber to Ethernet Media ...

About this item Seamless Conversion of LC Fiber to Copper – This fiber optic to ethernet media converter kit includes a single mode

Nov 13, 2025

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

Cost-effective Small Form-factor Pluggable (SFP) transceivers for Gigabit Ethernet applications Product overview The

Apr 17, 2026

1 Gigabit Singlemode SFP Fiber Optic Transceivers | Long-Distance

1 Gigabit Singlemode SFP Transceivers Our 1 Gigabit Singlemode SFP Transceivers offer high-performance, reliable connectivity for

Apr 04, 2026

10GBASE-ZR SFP+ 80km DOM | €80.33 | EDGE Optical Solutions

10GBASE-ZR SFP+ for 80km single-mode fiber. 1550nm, 23 dB link budget, DOM, STM-64. EU stock + lifetime warranty. €80.33.

Apr 24, 2026

1.25G SFP 80km Single Mode Transceiver specification

Description The SFP transceivers are high performance, cost effective modules supporting data rate of 1.25Gbps and 80km

Mar 20, 2026

SFP optical transceivers

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

Aug 25, 2025

1.25G SFP 550m~120km Optical Modules (Industrial Grade Optional)

Gigalight's 1.25G SFP series transceiver modules are widely utilized in Gigabit Ethernet, concurrently compatible with 1G Fiber

Apr 03, 2026

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

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

Sep 18, 2025

Single-Mode Gigabit Fiber Transceiver SFP/Mini-GBIC

Cisco Compatible Gigabit Fiber SFP Transceiver Module SM LC w/ DDM – 80 km (Mini-GBIC)

Nov 21, 2025

Gigabit 1.25G Singlemode SFP Transceiver – LC 80km

Specifically designed to operate up to distances of 80km in Singlemode fiber optic networks. These SFPs are mostly used in Gigabit

May 23, 2026

Single Fiber 80 km SFP Optical Transceiver: Ciena...

Ciena XCVR-080U55 is SFP Single Fiber Transceiver supporting 1.063-1.25Gbps data rate in 80 km distance over Single-Mode

Jul 26, 2025

SFP Single Mode LC Module (80km)

Fiber Mode/Distance Single mode SFP transceiver spans distances up to 80km (49.7 mi.) at gigabit speeds.

Jun 17, 2026

SFP Transceiver

The 1000BASELX SM SFP 80KM is a Gigabit single-mode SFP (mini-GBIC) transceiver with an LC style connector. Operating at a

Feb 22, 2026

1G 1550nm 80km SFP ZX Transceiver Module

Featuring a built-in Semtec chip and reliable DFB laser / PIN receiver, the SFP ZX module delivers low

Apr 23, 2026

SFP Optical Transceiver Modules for Long Distance: A Complete

Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission.

Jun 25, 2026

SFP Transceiver

Bestellnummer GSFIBER-SFP-80K Der GSFIBER-SFP-80K ist ein Gigabit-Ethernet-Singlemode-SFP-Transceiver. Durch die

Apr 22, 2026

SFP Transceiver

Utilizing LC connectors and operating at a 1310nm wavelength, it enables high-speed data transmission

Apr 22, 2026

SFP-7080-WB: Gigabit Single-Strand BiDi SFP Transceiver 80Km

Product description The SFP-7080-WB is a BiDirectional single strand fiber Gigabit Ethernet / 1.25G rate SFP transceiver using a

Mar 17, 2026

SFP-Transceiver

Bestellnummer NTSFP-LX-80 Der 1000BASELX SM SFP 80KM ist ein Gigabit-Singlemode-SFP-Transceiver (Mini-GBIC) mit LC

Jul 14, 2026

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

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

Oct 10, 2025

10GBASE-ZR SFP+ 1550nm 80km Fiber Optical Transceiver

GLSUN SFP-10G-ZR cisco compatible SFP+ transceiver module provides 10GBase-LR throughput up to 80km over single-mode

Jan 14, 2026

SFP Single Mode LC Module (80km)

TRENDnet's SFP Single Mode LC Modules are compatible with standard SFP slots found on network switches and fiber converters.

Mar 02, 2026

The SFP-1G-ZX Transceiver: Your Ultimate Guide to 80km Long

The SFP-1G-ZX is a hot-swappable, 1 Gigabit optical transceiver that operates on a single wavelength of 1550nm.

Jun 22, 2026

SFP Single Fiber 80 km transceiver | 1G ZX Ethernet

OptoSpan 80 km Single Fiber SFP transceiver for 1G ZX Ethernet. 1Gb single strand bidirectional SFP transceiver for single-mode

Apr 18, 2026

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

Aug 22, 2025

1G 1550nm 80km SFP ZX Transceiver Module

This Generic SFP-1G-ZX compatible SFP module supports 1000BASE-ZX Gigabit Ethernet connectivity and 1G fiber channel

Dec 31, 2025

Gigabit 1.25G Singlemode SFP Transceiver - LC 80km

Gigabit 1.25G Singlemode SFP Transceiver - LC 80km is specifically designed to operate up to distances of 80km in Singlemode

Feb 18, 2026

10G BiDi SFP+ 80km Transceiver (Tx1490Rx1550)

10G BiDi SFP+ 80km, Tx1490/Rx1550, single fiber, 23 dB budget, DOM. Pairs with the Tx1550 unit. EU stock + lifetime warranty.

Feb 28, 2026

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Sep 17, 2025

Single Fiber 80 km SFP Optical Transceiver: PLANET MGB-LB80

PLANET MGB-LB80 is SFP Single Fiber Transceiver supporting 1.063-1.25Gbps data rate in 80 km distance over Single-Mode Fiber

Mar 07, 2026

100GBASE QSFP-100G Modules Data Sheet

QSFP-100G-SL supports 100GBase Ethernet rate. Cisco QSFP-100G-SR1.2 The Cisco QSFP 100-Gb SR1.2 Bi

May 03, 2026

SFP 1000Base-LX Single-mode Fibre Transceiver (80km)

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

Jan 05, 2026

SFP Fiber Transceiver Modules, 80KM 1000BASE-ZX - Primus Cable

Extend your network up to 80km with this 1550nm single-mode fiber transceiver. Hot-swappable design works with Cisco switches

Apr 18, 2026

SFP optical transceivers

SFP optical transceivers are most used optical interface in telecommunications these days. Our Gigabit speed SFP transceiver

May 31, 2026

SFP-Transceiver

Der 1000BASELX SM SFP 80KM ist ein Gigabit-Singlemode-SFP-Transceiver (Mini-GBIC) mit LC-Stecker. Er arbeitet bei einer

Contact Us

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