

Price of a single-mode single-fiber 80km optical module

Article Overview

The price of an 80 km single-mode, single-fiber SFP module typically ranges from \$80 to \$250 per unit, depending on data rate, brand, and features.

Overview

Single-mode, single-fiber SFP transceivers are designed for long-distance optical communication over distances up to 80 km using a single strand of fiber. They are commonly used in Gigabit Ethernet, Fast Ethernet, and Fibre Channel networks and employ DFB lasers for reliable transmission at 1550 nm wavelength (). These modules are compatible with standard SFP slots and often support digital diagnostics for real-time monitoring ().

Price Factors

The cost of an 80 km SFP module depends on several factors:

- o Data rate: Modules supporting 1 Gbps (1000BASE-ZX) are generally less expensive than higher-speed 1.25 Gbps or 10 Gbps modules ().
- o Brand and OEM compatibility: Generic or third-party modules (e.g., OptoSpan, Optcore) are more affordable, typically \$80-\$150, while OEM-branded modules compatible with Cisco, Juniper, or Brocade can cost \$200-\$250 or more ().
- o Connector type: LC, SC, or FC connectors may slightly affect pricing ().
- o Additional features: Enhanced diagnostics, RoHS compliance, and extended warranty options can increase the price ().

Example Modules

- o OptoSpan SFP-11D-K080B55: 1G single-fiber bidirectional, 80 km, LC connector, cost-effective for data center and core networks ().
- o Optcore OSP155-5580xCR: 155 Mbps, 80 km, single-mode fiber, factory-priced with 5-year warranty ().
- o Optcore OPT1250-5580xxCR: 1.25 Gbps, 80 km, SC/FC/ST connectors, suitable for Gigabit Ethernet and Fibre Channel ().
- o Primus TRC-4685-GLCZ: 1G 1000BASE-ZX, 80 km, Cisco-compatible, hot-swappable SFP ().

Summary

For a single-mode, single-fiber 80 km SFP module, expect a price range of approximately \$80 to \$250 per



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unit, with lower prices for generic modules and higher prices for OEM-branded or feature-rich transceivers. When selecting a module, consider data rate, connector type, brand compatibility, and diagnostic features to ensure both performance and cost efficiency.

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

In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed

Good Price 10G Single Mode Single Fiber XFP Module 20KM 40KM 60KM 80KM SFP Module Price Compatible Fiber

Discover single mode single core SFP transceivers with 1.25G speed, SC/LC connectors, up to 80km reach, CE

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

BIDI-1.25G-SFP-120-BD SFP Single Fiber optical transceiver is multi-purpose module used in number of different places of today"s

Why Optical Transceiver Manufacturers Listed Below are for SFP Price Comparison First, pick up the most relevant

The GIGALIGHT's 10G BiDi SFP+ series of optical transceiver modules are widely used in 10G Ethernet and Optical Transport

Generic SFP-10G-ZR Compatible 10GBASE-ZR SFP+ Transceiver Module (SMF, 1550nm, 80km, LC, DOM) This Generic SFP-10G

10G SFP+ Bi-Directional optical transceivers enable integrated duplex data transmission up to 100km distance over single-mode

The module data link up to 80km in 9/125um Single-mode fiber. This compatible optical transceiver meets the Small Form Pluggable

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

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transceiver for single-mode

Optcore's OSP155-5580xCR is a high-performance small form factor pluggable (SFP) transceiver module for duplex optical data

The module data link up to 80km in 9/125um single mode fiber. The optical output can be disabled by a LVTTL logic high-level input

Buy 10Gb/s SFP+ BiDi 1550nm-TX/1490nm-RX 80km Optical Transceiver from Manufacturer at Affordable Factory Price,5-Year

This DWDM SFP+ ZR transceiver module is designed for 10 Gigabit Ethernet links up to 80km over single-mode fiber. It features a

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