

Single-mode fiber optic transceiver with square port



Summary of Content

A single-mode SFP transceiver with a small square port is a hot-swappable optical module designed for long-distance, high-speed data transmission over single-mode fiber.

Overview

Single-mode SFP (Small Form-factor Pluggable) transceivers are compact optical modules that convert electrical signals into optical signals and vice versa, enabling network devices such as switches, routers, and servers to communicate over single-mode fiber (SMF) with minimal signal loss. The "small square port" typically refers to the LC (Lucent Connector) interface, which is standard for SFP modules and allows for duplex fiber connections in a compact form factor.

Key Specifications

- Fiber Type: Single-mode fiber with a core size of approximately $9/125\ \mu\text{m}$.
- Wavelengths: Commonly 1310 nm or 1550 nm for long-distance transmission.
- Link Distance: Ranges from 10 km to over 80 km depending on the module type and optical power budget.
- Data Rates: Standard SFP modules support 1 Gbps, while SFP+ and SFP28 can support 10 Gbps and 25 Gbps respectively.
- Port Type: Small square LC duplex connector, which is compact and widely used in modern networking equipment.

Article Content

Fiber Optic Transceiver Modules | Optoelectronics | DigiKey

Shop DigiKey's large in-stock selection of Fiber Optic Transceiver Modules. View inventory, pricing and order now for same day

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

The 1000BASE-EX SFP operates on standard single-mode fiber-optic link spans of up to 40 km in length. A 5-dB

Singlemode: Transceiver Lösungen & Einsatzbereiche

Entdecken Sie unsere vielfältige Auswahl an Singlemode Transceivermodulen, die speziell für langlebige, zuverlässige und

Single Mode Fiber Transceivers – Fiber Savvy

By carefully selecting Fiber Savvy's SMF transceivers based on specific requirements, network administrators can harness the power

1G SFP Transceivers | Mini-GBIC SFP Modules

FS gigabit ethernet transceiver solutions provide fibre or copper options including 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-T

SEL-2830 Single-Mode Fiber-Optic Transceiver/Modem

Improve safety, signal integrity, and reliability by using two optical fibers instead of wire to transfer bidirectional serial data using

[Product Hub] Single Mode SFP Transceiver | Optcore

Equip with a long wavelength single mode optical transmitter and receiver, this SFP is suitable for single mode fiber systems. It is

Single Mode SFP Transceiver: Complete Guide Explained

In this guide, you will learn what a single mode SFP transceiver is, how it works, the key specifications and types available, and

Amazon : Single Mode Sfp

Discover high-performance single mode SFP modules for your network. Compatible with major brands like Cisco, Ubiquiti, and more.

1 Gigabit Singlemode SFP Fiber Optic Transceivers | Long-Distance

Our 1 Gigabit Singlemode SFP Transceivers offer high-performance, reliable connectivity for singlemode fiber optic networks. These

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

