

SC Interface Optical Module Single Mode



Article Overview

SC single-mode optical modules are fiber transceivers designed for long-distance, low-density networks, featuring a square push-pull SC connector and supporting single-mode fiber transmission.

Overview

SC (Subscriber Connector) single-mode optical modules are SFP transceivers that use a 2.5mm ceramic ferrule square push-pull interface to connect to single-mode fiber (SMF) networks . They are widely used in legacy networks, industrial applications, and low-density deployments, where high port density is not a primary concern . Unlike LC connectors, which are smaller and suited for high-density environments, SC connectors occupy more space but provide robust and reliable connections for long-distance optical links.

Key Features

- **Transmission Type:** Single-mode fiber, typically supporting distances from 10 km up to 80 km depending on wavelength and module type .
- **Data Rate:** Commonly available in 1.25G SFP modules for Gigabit Ethernet and 10G BiDi SFP+ modules for higher-speed applications .
- **Connector Structure:** Square push-pull design with a 2.5mm ferrule, ensuring precise alignment and low insertion loss .
- **Compatibility:** Works with a wide range of switches and network devices from vendors like Cisco, Huawei, D-Link, Mikrotik, ZTE, and TP-Link .

Article Content

SFP Optical Module Industrial 1.25G Single-mode 1xSC Optical

OVERVIEW This is an Industrial SFP optical module. It uses a single mode optical fiber and the speed rate can up to 1.25Gbps,

SC Single Mode Connectors: A Comprehensive Guide

SC single mode connectors are an indispensable component of modern fiber optic communication systems. Their precise design,

Single-mode optical fiber

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

SC APC SFP Module Guide for Optical Network Selection

An SC APC SFP module is a pluggable optical transceiver that integrates a standard fiber SFP form factor with an SC APC fiber

Singlemode SC Connectors Fiber Optic Connectors – Mouser

Singlemode SC Connectors Fiber Optic Connectors are available at Mouser Electronics. Mouser offers inventory, pricing, &

SC Singlemode Adapters Fiber Optic Connectors – Mouser

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1.25G SFP Module, Single Mode SC, TX1550nm, DDM 10KM

This optical module offers a reliable and durable solution for professional installations. Designed for fiber optic technicians and

Contact Us

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