

Sc fiber optic module



AI Overview

An SC fiber optic module is an SFP transceiver with an SC connector, primarily used to connect to legacy SC-based fiber networks.

Overview

An SC SFP module is a Small Form-factor Pluggable transceiver that uses an SC (Subscriber Connector) as its fiber interface, unlike the more common LC SFP modules which use LC connectors. The SC connector features a 2.5 mm ferrule and a simple push-pull locking mechanism, making it robust and easy to handle, especially in field deployments. SC SFP modules are typically single-fiber (BiDi) transceivers, meaning they transmit and receive data over a single fiber strand, which is different from standard duplex LC SFPs.

Key Differences from LC SFP Modules

- **Connector Size:** SC connectors are larger (2.5 mm ferrule) compared to LC connectors (1.25 mm ferrule), which limits their use in high-density switch ports.
- **Density:** LC SFPs allow more ports per switch due to their smaller size, while SC SFPs are less suitable for high-density environments.
- **Applications:** SC SFPs are mainly used in legacy networks, GPON/EPON FTTH deployments, and simplex BiDi modules, whereas LC SFPs dominate modern enterprise LANs and data centers.
- **Availability:** SC SFP modules are less common and usually only available as bidirectional transceivers, while LC SFPs have a wide range of standard duplex options

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LC vs SC Fiber Connectors: Key Differences Explained

Want to learn about the key differences between LC and SC fiber optic connectors? Continue reading the article to get

Contact Us

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