

SC Single-core Optical Module



AI Overview

A single-core SC optical module is a bidirectional SFP transceiver that transmits and receives data over a single fiber using SC connectors, often employing WDM technology. Overview Single-core optical modules, commonly referred to as BiDi SFP modules, allow bidirectional communication on a single optical fiber. This is achieved using wavelength division multiplexing (WDM), where different wavelengths carry transmit and receive signals simultaneously, effectively doubling network throughput without laying additional fiber. SC (Subscriber Connector) interfaces are typically used in legacy or low-density networks, providing a square snap-in design with a 2.5 mm ferrule. SC Connector Characteristics Structure: Square snap-in interface with a 2.5 mm ceramic ferrule. Size: Larger than LC connectors, making it less suitable for high-density environments. Compatibility: Works with single-mode fiber and is widely used in early-stage or low-density networks. Deployment: Often paired with LC SFP modules via SC-LC patch cables for hybrid network setups. Advantages of Single-Core SC Modules Fiber Resource Efficiency: Uses a single fiber for bidirectional communication, saving 50% of fiber resources compared to traditional dual-fiber setups. Flexibility: Compatible with existing SC cabling infrastructure, allowing integration into legacy networks. Cost-Effective: Reduces the need for additional fiber installation while maintaining gigabit or higher speeds. Distance Support: Many modules support distances up to 10 km, depending on wavelength and fiber type. Comparison with LC Modules While SC and LC connectors perform the same function, they differ in size and density: SC: Larger, easier to handle, suitable for low-density or legacy networks. LC: Smaller (1.25 mm ferrule), ideal for high-density deployments like data centers. Choosing between SC and LC depends on network density, existing cabling, and deployment requirements. Practical Considerations Ensure the connector type matches the fiber patch cable or use adapters to avoid insertion loss. Maintain...

Article Content

SFP Module – Optcore

Our transceiver modules are available for commercial and industrial applications, supporting varying distances from 500m to 160km, depending on multimode or single-mode fiber. Explore our SFP

SFP BiDi 1000BASE-BX 1.25Gbps

The 1G SFP BiDi optical module is designed for data transmission using a single single-mode (SM) fiber. It transmits data at speeds of up to 1.25 Gbps, over

XGSPON ONU SFP+ 1270nm-TX/1577nm-RX 9.953G-TX/9.953G-RX

It functions as an integrated Optical Network Unit (ONU) by embedding a MAC controller and OMCI stack directly into an SFP+ form factor. This allows the module to handle bidirectional data

Explanation of Optical Module Parameters

Considering that some newcomers to optical modules may not understand the letters on the optical module or the specific meanings of the parameters on the optical module, the following is

Gigabit single-mode single-core fiber optic module

Gigabit single-mode single-core optical fiber modules usually have the following specifications: multi-mode 550m, single-mode 15km, 40km, 80km, 120km, etc. In addition to the

Optic Modules Datasheet

Features and Benefits The following table lists the different pluggable optic modules and supported platforms, along with the technical specifications for each.

SC SFP – Optcore

With the SC SFP, users can connect to the corresponding LC SFP using a simple SC-LC patch cable. Hence, it provides considerable flexibility to the hybrid network cabling. Optcore offers a wide range

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The Key Differences Between 1-core, 2-core, Single Mode, and

Understanding 1-core, 2-core, Single Mode, and Multi-mode optical modules helps you design efficient networks. Whether you're working on long-distance telecom systems or setting up

The Key Differences Between 1-core, 2-core, Single

Single Mode fibers have a smaller core, allowing light to travel in a single, straight path, ideal for long distances with less signal loss. Multi-mode

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SC SFP – Optcore

Optcore offers a wide range of SC SFP BiDi modules at a great price. These bidirectional modules can transmit and receive signals using WDM technology

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Find high-quality fiber optic pigtailes for reliable network termination. We offer a full range of single mode and multimode pigtailes with SC, LC, ST, and FC connectors.

SFP-GE-CS-SM 1.25Gbps 1310nm Single-mode

Compatible with optical fiber equipment from Huawei, ZTE, H3C, Cisco, TPLINK, Ruijie, Dell, HP, Intel, NETGEAR, Juniper, AMD and other brands. Small Form

SFP Module 1 PAIR SC or LC 1.25Gbps Single mode single core fiber

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