

SC interface connects to optical module



Summary of Content

Yes, an optical module can use the SC interface, which is commonly found in legacy or low-density network deployments.

Overview of SC Interface

The SC (Subscriber Connector) interface is a square snap-in connector with a 2.5 mm ferrule, designed for easy plug-and-play use without rotation, using a latch mechanism for secure fastening . SC interfaces are compatible with single-mode optical fibers and are widely used in older or low-density networks, though they are less common in modern high-density deployments where LC or MPO connectors are preferred .

Types of SC Optical Modules

SC interface modules are mainly found in the following types:

- GBIC Optical Modules: Early hot-swappable modules using SC interfaces, primarily for Gigabit Ethernet. They were valued for easy maintenance and fault location but have largely been replaced by SFP modules .
- XENPAK Optical Modules: First-generation 10G Ethernet modules using SC interfaces. They are large and consume more power, suitable for early high-speed networks .
- X2 Optical Modules: Smaller than XENPAK, designed for high-density networks, but still using SC interfaces. These modules are transitional and less common today .

Article Content

SC interface optical module some knowledge

XENPAK optical module supports all the optical interfaces defined by IEEE 802.3ae standard, the first generation of

Detailed Explanation of FC, ST, SC, and LC Fiber-Optic Interfaces

It is an optical fiber connector that can be configured as duplex, triplex, or quadruplex, and is widely used in local area networks, fiber

Fiber Optic Cable Assembly Guide | LC, SC & ST

Learn how to select and test LC, SC, and ST connectors for reliable fiber optic cable

Common Fiber Connector Types in Optical Transceivers

Fiber optic connectors play a critical role in optical transceivers, linking transceiver modules to fiber optic cables for

SC Fiber Optic Transceivers

These transceivers are designed to interface with SC connectors, which are a type of fiber optic connector known for

ST, SC, FC, LC fiber optic connector interface difference

People who are not often exposed to optical fibers may mistakenly think that the optical fiber connectors of GBIC and SFP modules

SC Fiber Optic Transceivers

Description SC Fiber Optic Transceivers are devices that facilitate the conversion of electrical signals into optical

SFP LC VS SC Connectors for SFP Transceivers Explained in Detail ...

SFP is an abbreviation for small form-factor pluggable transceiver, which is an interface module used for communication applications.

SC Connector Explained

SC fiber connectors are favored for their cost-effectiveness and push-pull mechanism, particularly in PONs, converters,

Everything You Need to Know About Fiber Optic SC

Discover everything about SC fiber optic connectors, essential for linking multimode and

Installing Optical Transceivers and Connecting Optical Fibers

Installing Optical Transceivers and Connecting Optical Fibers This section describes how to install optical transceivers on the SFP or

SC Fiber Connector Guide | Uses and Benefits

SC-APC Fiber Optic Connector: Featuring an angled polish on the end face, optical fiber SC-APC connectors are tailored for

10G BiDi SFP+ Optical Module Interface Comparison: SC Vs LC

With the increasing demand for high-speed optical communications in data centers, enterprise networks, and carrier

SC and ST connectors

Learn all about SC and ST fiber optic connectors, their differences, and other connector types in our guide to optical

Fiber Optic Connectors: Difference between LC and SC

Fiber optic connectors allow cables to interface with network devices, ensuring reliable signal transfer. They come in

SFP Fiber Optic Connector Types: LC, SC, MPO Explained

Most SFP fiber optic modules use LC connectors, while SC connectors are mainly found in legacy networks and MPO/MTP

Fiber Connectors

CommScope offers a variety of low-loss LC, SC, SN and MPO fiber optic connectors that deliver superior mechanical and optical

Comparison of Optical Module Connectors: SC vs LC vs MTP/MPO

Compared with SC fiber optic connectors, you may be familiar with LC connectors. Because LC connectors have an

Optical Transceiver with SC Interface

XENPAK optical transceivers support all optical interfaces defined in the IEEE 802.3ae standard, and are the first-generation 10G

Knowledge related to SC interface optical modules

What is an SC interface optical module? The SC interface optical module refers to the optical module with an interface type of SC,

How to distinguish between LC and SC interfaces of optical modules?

In the entire system, the optical module plays a very important role. Its most common interface types are LC and SC

LC vs SC vs MU Connectors: What is the Difference?

Discover the differences between LC, SC, and MU connectors with our comprehensive

Differences Between SFP LC and SC Connectors

Within this context, terms like SFP LC connector and SFP SC connector refer to the specific types of fiber interfaces

Fiber Optic vs Ethernet Port Differences: Connectors

Learn key differences between fiber optic connectors (SC, ST, SFP+) and Ethernet ports. Fiber supports

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