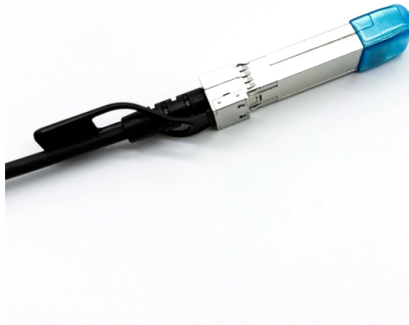


Optical Switch SC Port



AI Overview

Most modern optical switches do not have native SC ports; they primarily use LC ports, while SC connectors are mostly found in legacy or specialized applications.

SC vs LC on Optical Switches

Modern optical switches, especially those using SFP, SFP+, or QSFP transceivers, primarily feature LC ports due to their smaller size, higher port density, and compatibility with contemporary high-speed optics (1G, 10G, 25G, and beyond). The LC connector uses a 1.25 mm ferrule and a push-pull latch, allowing dense port arrangements on 1U or 2U switches.

SC connectors, on the other hand, use a larger 2.5 mm ferrule with a simple push-pull locking system. They are less common on modern switches because their larger size limits port density. SC ports are still widely used in:

- FTTH/ISP networks: GPON/EPON OLT and ONU modules often use SC connectors for field robustness.
- Legacy or industrial networks: Older simplex or bidirectional transceivers may use SC ports.
- Test equipment or specialized applications: Some lab or industrial switches may include SC ports for compatibility with existing infrastructure.

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

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

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

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