

# Enterprise-level switch fiber optic module



## Article Overview

Enterprise fiber optic modules, such as SFP, SFP+, and XFP, enable high-speed, scalable, and hot-swappable connectivity for modern network switches.

### Overview of Fiber Optic Modules

Fiber optic modules are modular transceivers that convert electrical signals into optical signals and vice versa, allowing switches and routers to communicate over fiber networks. Key characteristics include speed, wavelength, connector type, and distance:

- **Speed:** Modules support 1 Gbps, 10 Gbps, 25 Gbps, or higher, depending on network requirements .
- **Wavelength:** Common wavelengths are 850 nm (short-range), 1310 nm (mid-range), and 1550 nm (long-range), .
- **Connector Type:** LC and SC connectors are widely used, determining how the module interfaces with fiber cables .
- **Distance:** Multimode fiber supports hundreds of meters, while single-mode fiber can reach tens of kilometers .

### Common Module Types

- **GBIC:** First-generation Gigabit interface converter, large SC connector, 1 Gbps, legacy support only .
- **SFP (Small Form-factor Pluggable):** Compact, hot-pluggable, supports 1 Gbps, multiple optical reach options (SX, LX, ZX), and LC connectors ....

## Article Content

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Optical Fiber

AOC An active optical cable (AOC) is a fixed-length optical fiber with optical modules at both ends. It can be directly connected to an

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Pluggable Fiber Optic module for the fiber optic switch 583394.11 in 1310 nm multimode. This provide a Fiber Optic cable length up

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