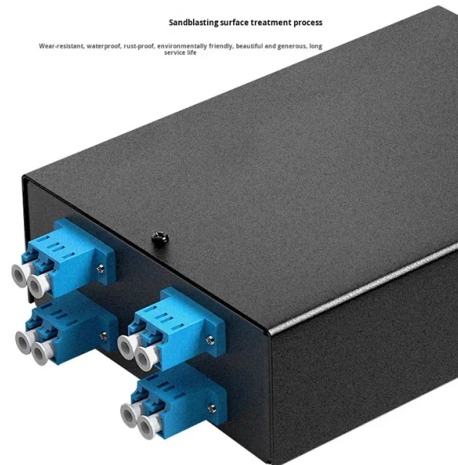


What types of Cisco optical modules are there



Article Overview

Cisco optical modules include GBIC, SFP, SFP+, QSFP, and higher-speed pluggable optics, each designed for specific data rates, distances, and network applications.

Overview of Cisco Optical Modules

Cisco optical modules are pluggable transceivers that convert electrical signals into optical signals and vice versa, enabling high-speed fiber communication between network devices. The choice of module affects data rate, transmission distance, and network topology, making it essential to select the right type for your operational needs .

Common Cisco Optical Module Types

1. GBIC (Gigabit Interface Converter)

- First-generation pluggable module for 1 Gbps Ethernet and Fibre Channel.
 - Uses SC connectors and supports multimode or single-mode fiber.
 - Hot-swappable but large in size, limiting port density.
 - Mostly used in legacy Cisco Catalyst 4000/4500 series switches .
- #### 2. SFP (Small Form-Factor Pluggable)
- Compact “mini-GBIC” module supporting up to 1 Gbps.
 - Uses LC connectors and supports multiple optical reaches:
 - SX (850 nm, up to 550 m, multimode fiber).

Article Content

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Contact Us

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