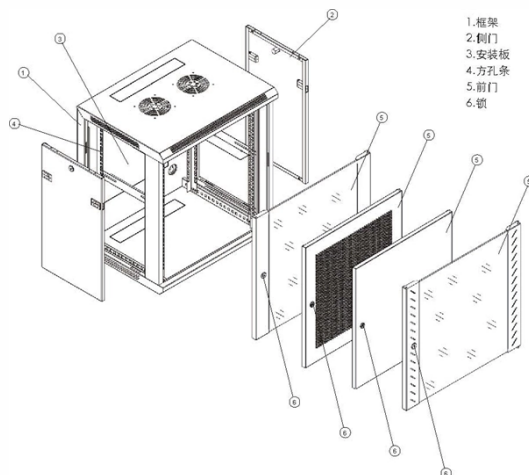


Multimode transceiver fiber optic port



Article Overview

Multimode fiber optic transceiver ports use SFP or QSFP modules with LC or MPO connectors to enable high-speed optical links over short distances, typically using OM3, OM4, or OM5 fiber.

Overview of Multimode Fiber Transceivers

Multimode fiber (MMF) transceivers are hot-pluggable modules that convert electrical signals from network devices into optical signals for transmission over MMF, and vice versa . They are commonly used in switches, routers, and servers to support high-speed Ethernet links in data centers and enterprise networks . MMF transceivers are optimized for shorter distances compared to single-mode fiber, leveraging the larger core diameter of MMF to support multiple light paths (modes) simultaneously .

Common Transceiver Types and Speeds

- SFP/SFP+ Modules: Typically support 1G to 10G Ethernet over MMF. For example, Cisco 10GBASE-SR modules can reach up to 300 meters on OM3 and 400 meters on OM4 fiber .
- QSFP Modules: Support higher speeds such as 40G or 100G Ethernet. The Cisco QSFP-100G-SR4-S module supports up to 70m on OM3 and 100m on OM4 using MPO connectors for parallel fiber links .
- BiDi (Bi-Directional) Modules: Use duplex LC connectors to transmit and receive over a single MMF strand, supporting short-reach applications like 70-150 meters on OM3/OM4/OM5 fibers

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