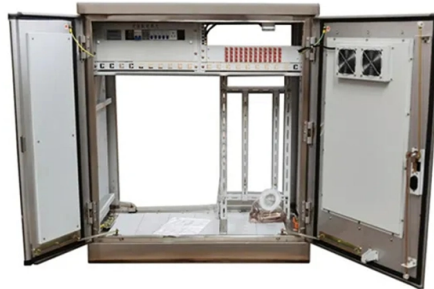


Types of optical module matching heads



Article Overview

Optical module matching heads are primarily defined by their connector types, including LC, SC, MPO, and MTP, which interface the module with fiber optic cables.

Common Optical Module Connector Types

- LC (Lucent Connector)
 - Small form-factor connector widely used in SFP, SFP+, and SFP28 modules.
 - Supports single-mode and multi-mode fibers.
 - Offers high port density and low insertion loss, making it ideal for high-speed networks (10G-25G) .
- SC (Subscriber Connector)
 - Larger, push-pull connector commonly used in older GBIC modules.
 - Provides reliable single-mode and multi-mode connections.
 - Less dense than LC but robust for long-distance applications .
- MPO/MTP (Multi-Fiber Push-On / Multi-Fiber Termination Push-On)
 - Multi-fiber connectors used in QSFP+, QSFP28, OSFP, and CXP modules.
 - Supports parallel optics for high-speed transmission (40G, 100G, 400G).
 - Enables multiple fibers in a single connector, reducing cabling complexity .
- Other Connectors
 - FC (Ferrule Connector): Threaded connector for single-mode fibers, often used in telecom.
 - ST (Straight Tip): Bayonet-style connector, mainly in legacy multi-mode networks.
 - MTRJ: Duplex connector for multi-mode fibers, less common today

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Mode Matching – cavity, resonator

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Optical fiber connector

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