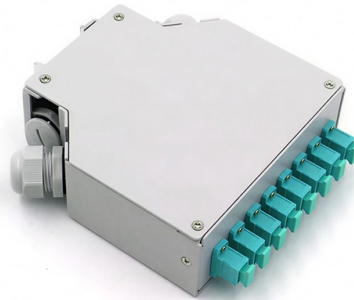


Rapidly Select an Optical Module



Article Overview

Choose an optical module by matching form factor, data rate, transmission distance, fiber type, and compatibility with your network equipment.

Step 1: Identify Your Network Requirements

Determine the data rate (e.g., 1Gbps, 10Gbps, 40Gbps, 100Gbps) and transmission distance. For short distances within a building, multimode fiber (MMF) with SFP or SFP+ modules is suitable. For long-distance links, use single-mode fiber (SMF) with LX, ER, or ZR modules to minimize optical loss.

Step 2: Choose the Appropriate Form Factor

Select a module form factor compatible with your equipment:

- SFP: Gigabit Ethernet, up to 100m MMF or 10km SMF
- SFP+: 10Gbps, common in data centers
- QSFP+, QSFP28, OSFP: 40Gbps, 100Gbps, or 400Gbps for high-bandwidth applications

Step 3: Consider Module Type and Compatibility

- Original modules: Branded by switch/router manufacturers (e.g., Cisco, Huawei)
- Third-party modules: Compatible with multiple brands, sometimes higher quality but require verification
- Second-hand modules: Used modules, cost-effective but may have reduced lifespan...

Article Content

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Contact Us

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