How much does a pair of optical modules cost



Overview

This post hence illustrates the SFP module price comparison by researching top competitors'' SFP price of our brand.

Key Takeaways

Optical modules are typically priced per single unit, not per pair.

Optical transceivers, such as SFP, SFP+, QSFP, and other modules, are generally sold and priced individually. Each module functions as a standalone device that can be inserted into a network switch, router, or other compatible equipment. While network links require a pair of modules—one at each end of a fiber connection—the pricing listed by vendors usually reflects the cost of a single module, not the combined cost of a matched pair .

Factors Affecting Optical Module Pricing

The price of an optical module depends on several factors:

• Technology and Speed: Higher-speed modules (e.g., 10G, 25G, 100G) are more expensive due to advanced components and engineering .

• Brand and OEM vs. Third-Party: OEM modules from Cisco, Juniper, or Arista often carry a premium for guaranteed compatibility, warranty, and support, while third-party compatible modules are usually cheaper .

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• Module Type: Single-mode, multimode, copper, or bidirectional (BiDi) modules have different costs based on materials and manufacturing complexity .

• Market and Supply Factors: Bulk purchases, supply chain conditions, and demand surges can influence pricing .
Practical Implications

When planning a network deployment, it is important to remember that although each link requires two modules, the unit price is per module. Therefore, for budgeting purposes, you should multiply the single-unit price by the number of modules needed for both ends of each fiber link. Additionally, considering OEM versus compatible modules, warranty, and support can affect the total cost of ownership . In summary, optical modules are priced individually, and buyers should account for the number of modules required per link when calculating total procurement costs.

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