

Price quote for fiber optic modules for switches

Article Overview

Fiber optic modules for switches typically range from \$20 to \$300 or more, depending on speed, distance, and type.

Pricing Overview

- o 1G SFP Modules: These are generally the most affordable, with prices ranging from \$20 to \$50 for short-range multi-mode modules and \$40 to \$80 for single-mode long-range modules .
- o 10G SFP+ Modules: High-speed modules for 10Gbps connections cost more, typically \$70 to \$150 for short-range multi-mode and \$100 to \$300 for long-range single-mode modules capable of distances up to 10 km or more .
- o Specialty Modules: Modules designed for very long distances (40 km to 120 km) or rugged outdoor environments can exceed \$300, reflecting advanced optics and environmental protections .

Factors Affecting Price

- o Fiber Type: Single-mode modules are more expensive than multi-mode due to longer distance capabilities and precision optics .
- o Distance: Modules supporting longer transmission distances (10 km, 40 km, 120 km) cost more than short-range modules (up to 500 m) due to higher-quality lasers and components .
- o Brand and Compatibility: Modules from Cisco, Ubiquiti, MikroTik, and other major vendors may carry a premium, while third-party compatible modules are often cheaper but require careful verification for switch compatibility .
- o Features: Hot-swappable modules, DDM (Digital Diagnostic Monitoring), and ruggedized designs for industrial or outdoor use can increase the price .

Where to Buy

- o Online Retailers: Amazon and WLAN-Shop24 offer a wide range of SFP and SFP+ modules with prices and shipping options .
- o Specialized Networking Suppliers: DigiKey and FiberOptics4Sale provide modules for professional networking setups, including high-end and industrial-grade options .

Recommendation

When selecting fiber optic modules, ensure compatibility with your switch, match the fiber type (single-mode or multi-mode), and choose the appropriate distance rating for your network. For cost efficiency, short-range multi-mode modules are suitable for most office environments, while single-mode long-range modules are



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necessary for data centers or campus networks. By considering these factors, you can budget effectively and select modules that meet both performance and cost requirements.

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