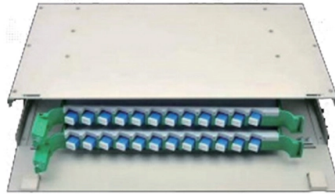


# How much does a fiber optic interface module for a switch cost



## Overview

Amazon.com: Sfp Module Upgrade your network infrastructure with versatile SFP modules. Discover options for 1G, 10G, and fiber optic standards to meet your.

## Key Takeaways

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

## Pricing Overview<sup>1</sup>

### G SF

**P 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. **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. **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



**Fiber Type:** Single-mode modules are more expensive than multi-mode due to longer distance capabilities and precision optics. **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. **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.

**Features:** Hot-swappable modules, DDM (Digital Diagnostic Monitoring), and ruggedized designs for industrial or outdoor use can increase the price.

## Where to Buy

**Online Retailers:** Amazon and WLAN-Shop24 offer a wide range of SFP and SFP+ modules with prices and shipping options. **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 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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