

Price of Single-Mode Fiber Optic Interface Module

Article Overview

Single-mode fiber optic modules typically range from \$20 to \$200+ per unit, depending on speed, distance, and brand.

Typical Price Ranges

- o SFP (1G): Basic single-mode SFP modules for 1 Gbps connections usually cost \$20-\$50 per unit, suitable for distances up to 20 km using LC connectors .
- o SFP+ (10G): Single-mode 10G SFP+ modules are priced around \$50-\$150, depending on the transmission distance (LR, ER, ZR) and vendor compatibility . LR modules (10 km) are generally cheaper, while ER (40 km) and ZR (80 km+) modules are more expensive.
- o SFP28 (25G): Modules for 25 Gbps networks typically range from \$100-\$200, designed for modern data centers and high-speed enterprise networks .
- o QSFP/QSFP28/OSFP (40G-400G): High-speed modules for backbone or data center applications can cost \$200-\$800+, depending on speed, distance, and form factor .

Factors Affecting Price

- o Transmission Distance: Longer-distance modules (ER, ZR) cost more due to higher-quality optics and laser components .
- o Brand and Compatibility: OEM modules from Cisco, Juniper, or Ubiquiti are typically more expensive than third-party or LINK-PP compatible modules, which offer cost savings without compromising standards compliance .
- o Form Factor: SFP, SFP+, SFP28, QSFP, and OSFP modules differ in speed and density, influencing price. Higher-speed modules generally cost more .
- o Environmental Specifications: Modules rated for wide temperature ranges or outdoor use may carry a premium .

Cost-Saving Tips

- o Consider third-party compatible modules for long-distance 10G links to reduce costs while maintaining reliability .
 - o Match the module type to your network requirements; avoid overpaying for higher-distance or higher-speed modules if not needed.
 - o Take advantage of hot-swappable SFP/SFP+ modules to minimize downtime and reduce operational costs .
- In summary, single-mode fiber optic modules are available across a wide price spectrum, from budget-friendly 1G SFPs to high-performance 400G OSFPs, with cost influenced by speed, distance, brand, and environmental specifications. Choosing the right module for your network needs can optimize both performance and budget.



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Here you can find SFP, GBIC and all other types of modules for multi-mode as well als single-mode fiber

TRENDnet"s single mode fiber SFP, model TEG-MGBS20, features a duplex LC fiber interface, supporting high-speed data rates for

Multi-mode and single-mode fiber-optic modules are plug-in fiber loop modules that work as a single channel to transmit or receive

Discover high-performance single mode SFP modules for your network. Compatible with major brands like Cisco, Ubiquiti, and more.

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit

Single-Mode MiniGBIC module, Supports full-duplex Wave Length: 1310nm. Data Rate: 1.25Gbps. Port Type:

Singlemode Fiber Optic Connectors are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for

Industrial Gigabit Fiber SFP Optical Transceiver Module, 1000Base-EX (LC) Single-Mode Port, 40 km (25

The transceiver is available as a mini-GBIC form factor, making it ideal for environments that require many fiber connections by

Discover high-quality single mode fiber optic cables for data centers, telecom, and enterprise networks. Find LC, SC, and ST

Conclusion: In conclusion, single-mode and multi-mode optical modules and fibers serve distinct purposes in sfp optical module

An optical fiber connector is a device used to link optical fibers, facilitating the efficient transmission of light

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5 Pairs 10G BIDI SFP+ Single Mode Fiber Module Network Transceiver, LR SM 1270nm 1330nm 10km, Simplex LC

Amazon.com: sfp single mode 4Pack SFP+ 10GBase-LR LC Module, SingleMode 1310nm, SMF Dual LC Fiber Optic Transceiver for

Web: <https://www.supremeacademicresearch.co.za>

