

How much does a 10G single-mode optical module cost



Overview

10G SFP Price Guide: How Much Does a 10G SFP Module Cost The average 10G SFP price typically falls between \$10 and \$300, depending on the module type, trans.

Key Takeaways

A 10G single-mode SFP+ module typically costs between \$50 and \$300, depending on type, distance, and brand. Price Range Overview

The cost of a 10G single-mode optical module varies widely based on transmission distance, module type, and manufacturer. For most enterprise and data center deployments, 10GBASE-LR modules, which support distances up to 10 km, are the most common and cost-effective, generally priced around \$50 to \$150 . 10GBASE-ER modules, designed for longer distances beyond 10 km, are more expensive due to higher optical power and stricter performance requirements, often ranging from \$150 to \$300 or more . 10GBASE-ZR modules, intended for ultra-long-haul links, are at the top of the price spectrum.

Factors Affecting Cost

- **Transmission Distance:** Longer-distance modules (ER, ZR) require higher optical power and tighter tolerances, increasing cost .
- **Brand and Vendor:** OEM modules from major vendors like Huawei or Cisco are priced higher than compatible third-party modules due to branding, support, and vendor lock-in

- **Compatibility:** Modules certified for broad compatibility with multiple switches or routers may cost more, while vendor-specific modules may be cheaper but limited in use .

- **Optical Technology:** Single-mode optics are generally more expensive than multimode due to precision manufacturing and longer reach .

Practical Buying Tips

- For most enterprise backbone or campus links under 10 km, LR modules provide the best balance of cost and performance .

- For links exceeding 10 km, ER modules are necessary, but only purchase ZR modules if ultra-long distances are required to avoid unnecessary expense .

- Consider third-party compatible modules if cost savings are important, but ensure they meet required standards and reliability . In summary, a 10G single-mode SFP+ module costs roughly \$50-\$300, with LR modules at the lower end, ER modules mid-range, and ZR modules at the high end, influenced by distance, brand, and compatibility requirements .

Article Content

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Single Mode 10G SFP+ Module: Price, Types & Buying Guide

Explore single mode 10G SFP+ modules, including LR, ER, and ZR types. Compare prices, distances, and compatibility to choose

10G SFP+ Transceiver Modules&10Gbase-T | FiberMall

10G SFP+ transceivers are available in many different transmitting and receiving types. Users can select the appropriate transceiver

SFP-10G-LR, Huawei SFP+ Optical Transceiver, 10G, 1310nm, 10km

Huawei SFP-10G-LR 10G SFP+ 1310nm 10km single-mode LC module for enterprise and carrier networks. Check real-time Huawei

10G/1G Optics

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The Cisco SFP-10G-SR is an enterprise-class SFP+ transceiver designed for high-density 10GBASE-SR links over multi-mode fiber.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

