

How much do multimode fiber optic transceivers cost

Article Overview

Multimode fiber optic transceivers typically range from \$50 to \$2,000 depending on form factor, speed, and vendor type.

Typical Price Ranges

- o SFP (Small Form-factor Pluggable) modules: Commonly used for speeds from 100 Mbit/s up to 4.25 Gbit/s, multimode SFP transceivers generally cost \$50 to \$200 per unit from reputable third-party vendors, depending on distance and fiber type (OM3, OM4, OM5) .
- o QSFP (Quad Small Form-factor Pluggable) modules: Designed for four independent channels, multimode QSFP modules for 40G or 100G Ethernet typically range from \$400 to \$1,500, with short-reach SR modules being the most cost-effective .
- o QSFP-DD (400G) multimode transceivers: High-speed 400G SR8 modules for data center applications are priced around \$1,400 to \$1,800 from third-party vendors, while OEM versions may be significantly higher .

Factors Affecting Price

- o Vendor Type: OEM modules often carry a premium due to brand and proprietary coding, while validated third-party modules offer similar performance at a fraction of the cost .
- o Transmission Distance: Short-reach multimode modules (up to 100-150 meters) are cheaper than extended-reach or long-haul modules.
- o Data Rate and Form Factor: Higher-speed modules (100G, 400G) and denser form factors (QSFP-DD) are more expensive than lower-speed SFP modules.
- o Fiber Compatibility: Modules supporting OM3, OM4, or OM5 multimode fiber may vary slightly in price, with OM5 often commanding a small premium due to newer technology .

Practical Considerations

- o Cost Optimization: For in-rack or short-distance connections, using multimode SFP or QSFP modules is more cost-effective than high-end long-haul optics .
- o Maintenance and Handling: Regular cleaning and careful handling of multimode transceivers help maintain performance and longevity, indirectly affecting total cost of ownership .
- o Vendor Selection: Reputable distributors like Mouser, DigiKey, FS.com, and Fiber24 provide transparent pricing, datasheets, and compatibility information, making them reliable sources for procurement . In summary, multimode fiber optic transceivers are available from around \$50 for basic SFP modules to \$1,800 for high-speed 400G QSFP-DD modules, with pricing influenced by speed, distance, form factor, and vendor choice. Careful selection based on network requirements can optimize both performance and cost.



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Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation

Mouser offers inventory, pricing, & datasheets for LC Multimode Fiber Optic Transmitters, Receivers, Transceivers.

Multimode Fiber Optic Transmitters, Receivers, Transceivers Fibre Optic Transmitters, Receivers, Transceivers are available at

Multimode Fiber Optics are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Multimode Fiber Optics.

FS provides 50/25/10/1G transceivers modules in SFP/SFP28/SFP56/QSFP28 form factor, supporting transmission distances from

In the Fiber24 shop, you will find a wide range of different fibre optic cables, patch cables, transceivers (including the new 400G

QSFP+ Transceiver Modules, OM4 Multi-mode, 40Gb/s, MPO/MTP Fiber Optical Connector, Cisco

Single-Mode Transceivers: Significantly more expensive. Cost per transceiver: \$50 - \$1000+ (and can go much higher for very high

When dealing with a multimode transceiver there is a trade-off between the speed and distance. Single-mode vs Multi-mode

What is an Optical Transceiver? An optical transceiver, also known as a fiber optic transceiver or optical module, is a

In datacom environments, both singlemode transceivers and multimode transceivers can accommodate speeds

A fiber optic transceiver is one of the most essential parts of any modern telecommunications or data communications

Discover how to buy optical transceiver modules online with confidence. Expert insights on 10G, 40G, 100G modules,

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Multimode Fiber (OM4/OM5) remains the most cost-effective solution for short-reach data center links (<150m) due to

Initial Published: December 22, 2022 In this in-depth single mode vs. Multimode Fiber comparison, I will compare

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

