Reference Price for Multimode Fiber Optic Transceivers



Overview

Multimode Fiber Optics – MouserMouser offers inventory, pricing, & datasheets for Multimode Fiber Optics. Fiber Optic Transceiver Modules | Optoelectronics.

Key Takeaways

Multimode fiber optic transceivers typically range from $50 to $2,000 depending on form factor, speed, and vendor type. Typical Price RangesSFP (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).

QSF

P (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. 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

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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. Transmission Distance: Short-reach multimode modules (up to 100–150 meters) are cheaper than extended-reach or long-haul modules. Data Rate and Form Factor: Higher-speed modules (100G, 400G) and denser form factors (QSFP-DD) are more expensive than lower-speed SFP modules.

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

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. Maintenance and Handling: Regular cleaning and careful handling of multimode transceivers help maintain performance and longevity, indirectly affecting total cost of ownership. 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.

Article Content

Fiber Optic Transceiver Modules | Optoelectronics

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Buy Transceivers – SFP, SFP+, and QSFP Modules

Here you can find SFP, GBIC and all other types of modules for multi-mode as well als single-mode fiber-optics, and even Copper Ethernet (1000Base-T and

Multimode transceiver modules buy online

Discover our diverse selection of multimode transceiver modules, which are specially tailored to the requirements of professional network and data centre infrastructures. Our modules ensure stable,

50/25/10/1G Transceiver Modules | Optical Transceivers

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FS provides 50/25/10/1G transceivers modules in SFP/SFP28/SFP56/QSFP28 form factor, supporting transmission distances from 30m to 160km over SMF/MMF

Multimode OM4 Fiber Transceivers

We specialize in Fiber Optic Distribution. We carry a wide variety of fiber optic cables and accessories.

Multimode Fiber Optic Transmitters, Receivers, Transceivers Fibre

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

Optics and Transceivers | Fiber Optical Transceivers

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to 800G and beyond. The fiber optic transceiver modules can work in any

Prices of Fiber Optic Transceivers

The following are reference prices, estimated prices, list prices or prices requested by buyers of Fiber Optic Transceivers. For each, we provide the date and the type of information in order to give a

SFP Multimode

These SFP transceivers are for multimode fiber optic cables. You should ensure that SFPs or network equipment at each end of the fiber are multimode and are operating on the same wavelength (850nm

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a campus. Multi-mode links can be used for data rates up to 800 Gbit/s.

SFP Gibic 1G Multimode Fiber Transceivers

TERA Multimode SFP Transceiver Adapter is an ideal solution for multi-mode fiber optic networks. This device operates at 1.25Gbps and supports a connection

NVIDIA Mellanox MMA4Z00-NS Data Center Optical Transceiver

This MMA4Z00-NS 800G OSFP SR8 transceiver operates over OM4 (50 meters) and OM5 (70 meters) multimode fiber using 8 parallel lanes at 100G PAM4 per lane, compliant with

Fiber Optic Cable Types: How to Select the Best Option for Your

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850 nm Multimode Fiber: How to Choose the Right Cable Discover how to select the ideal fiber optic cable type for your network to optimize performance, ensure compatibility, and

The FOA Reference For Fiber Optics

Designers of fiber optic cable plants and networks depend on these specifications to determine if networks will work for the planned applications. For the purposes of this particular page, we will focus

The FOA Reference For Fiber Optics

Step index multimode fiber has a core comprised of one single type of optical material, either glass or plastic. It has higher attenuation and is too slow for many uses, due to the dispersion caused by the

Hilink Optics QSFP QSFPDD OSFP 10G SFP transceiver, Optical Transceiver ...

If you have any questions about Hilink Optics CWDM DWDM QSFP QSFPDD OSFP 10G SFP transceivers,we will give the professional solutions to you.

The FOA Reference For Fiber Optics

Fiber Optic Network Design Jump To: The Communications System Cabling Design Choosing Transmission Equipment Planning The Route Choosing Components Cable Plant Link Loss Budget

Complete Guide to Fiber Optic Cables for Data Centers

Everything you need to know about fiber optic cables for data center deployments. Covers OS2, OM3, OM4, OM5 cable types, LC/SC/MPO connectors, and

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

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