How much is the multimode optical module



Overview

SFP28 transceiver that supports 25G connections up to 100 m using multi-mode fiber with a duplex LC UPC connector.

Key Takeaways

Multimode optical interface modules typically range from $20 to $150 per unit, depending on type, speed, and vendor. Pricing OverviewSFP Modules (1G–10G): Standard 1G or 10G multimode SFP modules generally cost $20–$50 per unit for single modules, with bulk packs (e.g., 10-pack 10GBase-SR) priced around $200–$400 on platforms like Amazon. These modules operate over 850 nm multimode fiber and support distances up to 550 meters, depending on fiber type.

QSF

P and QSFP-DD Modules (40G–400G): Higher-speed multimode modules, such as 40G QSFP+ or 400G QSFP-DD, are more expensive due to advanced optics and higher data rates. Prices typically range from $100 to $150 per module for 40G, and $400–$800 or more for 400G modules, depending on vendor and features like FEC support and OM3/OM4 fiber compatibility. Factors Affecting Price: Data Rate: Higher-speed modules (40G, 100G, 400G) cost significantly more than 1G–10G modules.

Fiber Type: Modules compatible with OM4 or OM5 multimode fiber may be slightly more expensive than OM1/OM2. Connector Type: LC connectors are standard, but MPO/MPO16 connectors for high-density modules can increase cost. Vendor and Brand: OEM modules from Cisco, Juniper, or Arista are priced higher than third-party or generic modules.

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Additional Features: Modules with Digital Diagnostic Monitoring (DDM) or extended temperature ranges may carry a premium.

Buying Options

Online Retailers: Amazon and Mouser Electronics offer a wide range of multimode SFP and QSFP modules with transparent pricing and datasheets. Wholesale Suppliers: Alibaba and Fiber24 provide bulk purchasing options, often at lower per-unit costs for large orders. Specialized Vendors: COBTEL and other optical module manufacturers offer high-speed multimode modules for enterprise and data center applications, with prices reflecting advanced specifications.

In summary, for typical enterprise or data center use, multimode SFP modules cost $20–$50, while high-speed QSFP-DD modules for 400G applications can exceed $400 per unit, with pricing influenced by speed, fiber type, connector, and vendor.

Article Content

25G Multi-Mode Optical Module

SFP28 transceiver that supports 25G connections up to 100 m using multi-mode fiber with a duplex LC UPC connector.

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The 10 Gbps Multi-Mode Optical Module, model UACC-OM-MM-10G-D-2, from Ubiquiti is a high-performance, dual-rate optical transceiver designed for use in building and scaling high-speed

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QSFP+ Transceiver Modules, OM4 Multi-mode, 40Gb/s, MPO/MTP Fiber Optical Connector, Cisco Compatible NPNB-APQPSR4CM01A Fiber Savvy Price: $359.99

Amazon : Sfp Module

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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.

Multimode Fiber

Multi-mode optical fiber has a core diameter that is much larger than the wavelength being carried. The large core allows for high numeric apertures for superior light gathering compared to single mode fibers.

Fiber optic module CBO 407-10933-BO | AiO.lv

Short description CBO 407-10933-BO is a fiber optic module supporting 1000 Mbit/s data rate at 850 nm wavelength. Designed for gigabit network links over multimode fiber, it provides reliable optical

How to Choose the Right Fiber Optic Cable for Your Optical

How to Choose the Right Fiber Optic Cable for Your Optical Transceiver Selecting the right optical transceiver is only half of building a reliable fiber network. Many network failures that appear

Multimode Optical Modules Market: $9.54B, 11.6% CAGR Outlook

Multimode Optical Modules market sees 11.6% CAGR, driven by AI, data center expansion, and cloud services. Access critical market share and growth projections.

What is an Optical Module?

Explore the world of optical modules, essential components in optical fiber communication. Learn about the different types of optical modules, their functions, packaging, and key technical concepts like

SFP Module Buying Guide: How to Choose the Right Transceiver

SFP modules (Small Form-factor Pluggable) are the standard interface for connecting fiber optic or copper cables to network switches, routers, and servers. With hundreds of variants

400G Optical Modules Explained: SR4 Vs. DR4 Vs. FR4 Vs. LR4

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center network.

Singlemode vs Multimode Fiber Optic Cable

A: multimode optical transceiver module works at 850nm, singlemode optical transceiver module works at 1310nm, 1550nm. The devices

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Insertion Loss at 800G: Single-mode vs. Multi-mode

Benefits of 800G Multimode The main benefit is lower optic cost. Short-reach multimode transceivers are usually cheaper than single mode optics. For a dense leaf-spine fabric with many

Explanation of Optical Module Parameters

Considering that some newcomers to optical modules may not understand the letters on the optical module or the specific meanings of the parameters on the optical module, the following is

How Far Can a Fiber Optic Cable Be Run? Distance Guide

Fiber optic cables can run up to 80 km without a repeater. Learn exact limits by cable type, application, and how to extend your network.

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

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