

Gigabit Optical Module Customization Price



AI Overview

Custom Gigabit optical modules typically cost between \$50 and \$200 per unit, with additional charges for specialized wavelengths, EEPROM coding, or industrial temperature grades.

Cost Overview The base cost of standard 1.25G or 2.5G SFP modules ranges from \$50 to \$100 per unit for multimode short-reach modules, while single-mode or long-distance modules can reach \$150–\$200 per unit depending on specifications and vendor. Customization, such as CWDM/DWDM wavelengths, pull-tab colors, or tailored EEPROM coding, generally adds 15–30% to the base price, reflecting the additional engineering, testing, and validation required.

Factors Affecting Customization Cost

Module Type and Reach: Short-distance multimode modules are cheaper, while long-distance single-mode or BiDi modules for 10–120 km deployments cost more due to higher-grade optics and WDM technology.

Volume: Ordering in bulk (hundreds or thousands of units) can reduce per-unit cost significantly, while small orders may incur higher unit prices.

OEM vs Third-Party: OEM-branded modules carry a premium for guaranteed compatibility and certification, whereas reputable third-party modules offer similar performance at lower cost but may require additional validation.

Special Features: Industrial temperature grades (–40°C to 85°C), extended warranties, or custom testing protocols increase costs.

Operational Considerations: Factory-direct customization ensures full interoperability across multiple switch brands and reduces integration issues, which can justify higher upfront costs by lowering long-term operational risks.

Practical Recommendations

Plan Ahead: Forecasting network requirements 6–12 months in advance allows negotiation for better pricing and avoids emergency purchases at premium rates.

Evaluate Vendors: Choose suppliers with certified testi...

Article Content

SFP transceiver module (SFP & GBIC modules)

SFP's come in a variety of data rates and different fiber coverages. The most used SFPs are the 1.25G Gigabit rate transceiver modules. This section also includes wider old format GBIC only transceivers

Customisation of optical module chips | Weyland

Optical module chip customization typically follows several models: Joint development model: Module manufacturers and chip designers collaborate from early-stage architecture definition

Gigabit Single-Mode Dual-Fiber Optical Module 1.25g SFP 1310nm

SFP optical module / Gigabit single-mode fiber module SFP-GE-SM-1310 / Gigabit single-mode dual-fiber optical module 1.25G SFP 1310nm 20km LC functions as photoelectric conversion. The

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How to choose the right optical module

For users, choosing the right optical module for their applications can be a major challenge. This article will provide readers with valuable references and suggestions from multiple

What are the characteristics of Gigabit optical modules?

At the same time, Gigabit optical modules are also well compatible with various brands and models of network equipment. Easy to manage: Some Gigabit

Cost of Customizing a Gigabit Multimode Optical Module

What factors influence 400G optical transceiver modules Discover the key factors that drive 400G optical transceiver pricing—from form-factor and component costs to market dynamics and sustainability.

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Optical Module Procurement guide to pricing trends, OEM vs aftermarket insights, and strategic buying tactics to optimize costs, reliability, and

Optical Transceiver Pricing: Cost Ranges by Speed and

This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical guidance for choosing the right

Cost of Customizing a Gigabit Multimode Optical Module

Gigabit SFP Module: A Complete Guide to 1G SFP Transceivers This guide focuses on what a gigabit SFP module is, how it works, the main types available, and how to choose the right one for your

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SFP modules – transceivers for 1/2/4G fibre channel

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