How much does an lc optical module cost



Overview

Amazon.com: Sfp ModuleUpgrade your network infrastructure with versatile SFP modules. Discover options for 1G, 10G, and fiber optic standards to meet your.

Key Takeaways

LC optical modules typically range from $20 to $280 per module depending on type, data rate, and reach.

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C optical modules, which include SFP, SFP+, and QSFP variants, are widely used in fiber optic networks for data transmission.

Short-reach SF

P modules for 1G or 10G connections can cost as low as $20–$35 per module for third-party suppliers, while longer-reach or higher-speed modules like LR4 or CWDM4 can range from $100 to $280 or more per module depending on specifications and vendor. Factors affecting price include: Data rate: 1G, 10G, 25G, 40G, 100G modules have increasing costs. Transmission distance: Short-reach (SR) modules are cheaper than long-reach (LR) or extended-reach (ZR) modules.

Brand and warranty: OEM modules are generally more expensive than compatible third-party modules. Connector type: LC connectors are standard for SFP/SFP+ modules, while QSFP modules may use multiple LC or MPO connectors. Examples of pricing: SFP+ 10G SR LC module: ~$20–$50 per module for third-party options.

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QSFP28 100G LR4 LC module: ~$280 per module for standard OEM pricing, with third-party alternatives starting around $35 for short-reach models. 1G SFP LC modules: Often available for $20–$30 each from distributors like FS, Mouser, and DigiKey. For bulk purchases, prices can decrease significantly, and distributors often provide datasheets and compatibility information to ensure modules work with specific switches or routers.

When budgeting, consider cost per gigabit as a metric: a $35 QSFP28 SR4 module delivers 100G, equating to $0. 35 per Gbps, whereas a $20 SFP+ 10G module equals $2. 00 per Gbps.

Overall, LC optical module pricing is highly variable, and buyers should compare module type, reach, vendor, and warranty to select the most cost-effective option for their network needs.

Article Content

Amazon : Sfp Module

Upgrade your network infrastructure with versatile SFP modules. Discover options for 1G, 10G, and fiber optic standards to meet your connectivity needs.

QSFP28 Price Guide 2026: 100G Transceiver Costs & TCO

The OEM quoted $2,200 per module, resulting in a total optics cost of $1,760,000. A third-party supplier offered compatible LR4 modules at $280 per module, with the same 10km optical

Optical Transceiver Pricing: Cost Ranges by Speed and Type

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

QSFPTEK 100Gbase-LR4 QSFP28 Transceiver, 100Gb Ethernet LC

High Quality: Certified and tested on Cisco QSFP-100G ports for superior performance, quality, and reliability, every module had been individually tested on switches before shipping,

200G/400G/800G Optical Transceiver Modules | FiberMall

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center interconnect applications - FiberMall

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 fiber and enabling low power and cost

Fiber Optic Transceiver Modules | Optoelectronics | DigiKey

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800G Optical Module Cost Analysis | TCO Optimization Guide

Complete guide to 800G optical module costs and TCO optimization for AI data centers. Includes pricing analysis, cost comparison, vendor strategies, and ROI calculations for informed

Fibre Channel

Media and modules Fibre Channel predominantly uses SFP or SFP+ modules with LC connector and duplex cabling, but 128GFC uses QSFP28 modules with MPO connectors and ribbon cabling. The

Optical Transceiver Modules Prices & Specifications

FAQ – Optical Transceiver Modules What are the main types of optical transceiver modules? The main types include SFP (1G), SFP+ (10G), SFP28 (25G), QSFP+

Single-mode optical fiber

In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed to carry only a single mode of light - the transverse mode.

LC Fiber Optics: A Comprehensive Guide

What Does LC Mean in Fiber Optics? LC stands for a type of optical connector of which the full name is Lucent Connector. It comes with the name because the LC connector was first

Optical Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

SFP+ Single Mode LC Module (10km)

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TRENDnet''s SFP+ Single Mode LC Modules are compatible with standard SFP+ slots found on network switches and fiber converters. Each single mode 10G

What factors influence 400G optical transceiver modules price？

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

LC Fiber Optics: A Comprehensive Guide – TURNSTONE CABLES

Get practical insights into LC fiber optics, connectors, patch cables, and transceivers with clear details, real examples, and helpful product guidance.

Optical Transceiver Market Size, Share, Analysis 2030

The global Optical Transceiver Market size in terms of revenue was estimated to be worth $13.6 billion in 2024 and is poised to reach $25.0 billion by 2029, growing at a CAGR of 13.0% during the forecast

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

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