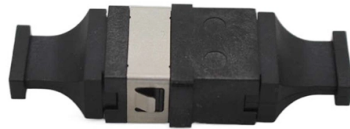


Price of Optical Module Communication



AI Overview

Optical module costs vary widely, from a few dollars for basic 1G SFPs to over \$1,500 for high-end 800G modules, depending on speed, form factor, vendor, and technology.

Pricing Overview by Module Type

- 1G SFPs:** Generic or compatible modules typically cost \$5–\$25, while OEM-branded modules (Cisco, HPE, Juniper) range from \$60–\$120+ for industrial or extended temperature versions.
- 10G SFP+:** Compatible short-range modules sell for \$20–\$60, whereas branded long-reach or vendor-guaranteed modules can cost \$100–\$300+.
- 25G SFP28:** Low-cost compatible modules can be under \$30 in volume, while OEM or specialized single-mode parts may reach several hundred dollars.
- 400G QSFP-DD:** Typical pricing ranges from \$600–\$800 per module, influenced by form factor, DSP complexity, and vendor tier.
- 800G OSFP/QSFP-DD:** Volume pricing for 1000+ units is \$1,000–\$1,400 for OSFP-DR8 and \$1,000–\$1,300 for QSFP-DD-DR8; longer-reach OSFP-FR4 modules cost \$1,500–\$1,900.

Factors Affecting Cost

- Technology and Speed:** Higher-speed modules (400G, 800G) require advanced DSP, PAM4 modulation, and precise optical components, increasing cost.
- Form Factor:** QSFP-DD, OSFP, and LPO modules have different mechanical and thermal designs, affecting manufacturing complexity and price.
- Vendor Tier:** OEM modules command a 30–50% premium over third-party compatible modules due to brand, quality assurance, and support.
- Volume Discounts:** Large orders (1000+ units) can reduce per-unit cost by 10–30%.
- R&D and Manufacturing:** Costs of lasers, silicon chips, cleanroom assembly, and testing contribute significantly to module pricing.
- Market Dynamics:** Supply chain constraints, component shortages, and early-generation technology can temporarily increase prices by 20–60%.

Coherent vs Non-Coherent Modules

Coherent modules (used for long-haul or high-capacity links) have higher unit costs but can reduce total cost of ownership by minimizing the need for regeneration and increasing spectral efficiency...

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QSFP28 Price Guide 2026: 100G Transceiver Costs

Sandra's procurement team had a \$200,000 annual budget for optical transceivers. Her first purchase order went to the usual OEM vendor: 400

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 structure of optical module chips | Weyland

The overall cost of an optical module chip depends on material choices, design complexity, manufacturing processes, packaging, testing, and integration, all of which play a role in the final

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Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable

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European Conference and Exhibition on Optical

Welcome to ECOC 2026 in Málaga ECOC, the European Conference on Optical Communications, is the largest and most prestigious event on optical

Marvell: Focus on ASIC Updates, Optical Communications Business

Any details regarding project progress will be a market focus. Regarding stock price judgment: Morgan Stanley believes that the company's most optimistic growth expectation currently

OPTICAL MODULE Price

256 MB ECC Memory for Optical Services Modules REFURBISHED. 512 MB ECC Memory for Optical Services Modules REFURBISHED. Optical Protection Switching Module.

Optical Communication Module Market: Cost, Price, Revenue Analysis ...

The report comprehensively analyzes global Optical Communication Module market trends, competitive landscape, and growth opportunities from 2021 to 2032, covering multi

What factors influence 400G optical transceiver

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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Communications Transform global communications networks with our comprehensive portfolio of coherent transceivers and modules, lasers, amplifiers,

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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

GigaDevice Launches MCUs for Optical Module Applications

GigaDevice has introduced two new MCU series — GD32E512 and GD32E252 — designed specifically for optical module applications. These extend GigaDevice's optical communication MCU portfolio to

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Cost-Benefit of Coherent Optical Modules — Deep Technical

Explore the cost-benefit of coherent optical modules in metro and long-haul networks. Learn how coherent transceivers improve efficiency, lower TCO, and future-proof optical

Optical Transceiver Modules Prices & Specifications

Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable device used in high-bandwidth data

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Contribute to CaiQiuL/SpellChecker development by creating an account on GitHub.

Deep Dive: Optical Module Market

In terms of pricing, 800G LPO modules have been sold at around \$600 this year, which is cheaper than single-mode conventional optical modules priced above \$700 but more expensive

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