

# Optical module communication supply cost



## Article Overview

Optical module prices vary widely, ranging from around \$20 for basic SFP modules to several thousand dollars for high-speed 400G or 800G modules, depending on type, speed, reach, and manufacturer.

### Price Ranges by Module Type

- SFP Modules (1G–10G): Typically priced between \$20–\$150 per unit, depending on data rate, reach, and vendor compatibility .
- SFP+ and SFP28 Modules (10G–25G): Prices generally range from \$50–\$300, with longer reach or specialized features costing more .
- QSFP/QSFP+ Modules (40G–100G): These modules are priced from \$200–\$800, depending on whether they are short-range (SR), long-range (LR), or active optical cables (AOC), .
- High-Speed 400G/800G Modules: Advanced modules like QSFP-DD SR8 or OSFP 400G/800G can cost \$1,000–\$5,000 per unit, reflecting their high performance, low latency, and specialized components such as Broadcom DSPs and MPO connectors .

### Factors Affecting Price

- Data Rate and Speed: Higher-speed modules (400G, 800G) are significantly more expensive than 1G–25G modules.
- Reach and Fiber Type: Single-mode modules for long-distance transmission cost more than multi-mode short-range modules.
- Brand and Manufacturer: Premium brands like Cisco, Intel, Lumentum, and InnoLi...

## Article Content

Mar 04, 2026

Optical Communication Industry Trends 2026: AI, 800G/1.6T Optical ...

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules,

Apr 14, 2026

Deep Dive: Optical Module Market

Optical modules can also be categorized into single-mode versus multimode modules. Single-mode modules often

Oct 30, 2025

Analysis of China's Optical Module Domestic Production Trend: Policy ...

Spurred by the AI computing boom and large-scale 5G deployment, optical modules, the critical backbone of

Sep 08, 2025

LightCounting :: May 2024 Optical Vendor Landscape

The report also includes a review of the latest mergers and acquisitions and their impact on the market landscape. This report takes

Jan 17, 2026

Smallest Thinnest Power Modules for Data Center Optical Modules

Data transmission rates in optical communication field are on a constant rise. This paper describes the ever-increasing demand for

May 23, 2026

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

May 06, 2026

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

Aug 27, 2025

## 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

Oct 16, 2025

## Cost structure of optical module chips | Weyland

Understanding the cost structure of optical module chips is essential for developers, investors, and network operators,

Jun 05, 2026

## Cost of optical module electronic chips | Weyland

In low-speed optical modules, their cost share is relatively low. However, in 400G, 800G, and future 1.6T optical

Feb 24, 2026

## 800G Optical Modules Drive Market Recovery in 2025

800G modules drive optical market recovery in Q2 2025, with initial 1.6T shipments. This article highlights key trends

Dec 09, 2025

## Enabling Higher Data Rates for Optical Modules With Small and

**ABSTRACT** A constant trend in optical modules is to offer higher data rates within the size-limited and thermally-limited form factor

Sep 02, 2025

## DeepSeek's low-cost AI model to spur demand for optical communication

These advantages make optical communication indispensable for AI infrastructure, driving the growth of 800Gbps and

May 21, 2026

## Co Packaged Optics (CPO) – Scaling with Light for the Next Wave of ...

Co-Packaged Optics (CPO) has long promised to transform datacenter connectivity, but it has taken a long time for the

Feb 06, 2026

## Optical Module Package Market 2025

Optical Module Package Market was valued at 8942 million in 2024 and is projected to reach US\$ 20220 million by 2032, at a CAGR

Feb 01, 2026

### QSFP28 Price Guide 2026: 100G Transceiver Costs & TCO

The price of a QSFP28 module depends on the module type, reach, coding, temperature grade, warranty, order

Mar 13, 2026

### Understanding Optical Modules: Working Principles, Structures, and ...

Explore the working principles, structures, and performance metrics of optical modules, essential components of

May 05, 2026

### SFP Module Price: Strategic Cost Analysis and TCO Factors

Compare SFP module prices, OEM vs third-party costs, and total cost of ownership (TCO). Learn what drives SFP pricing and how

Oct 06, 2025

### Coherent Optical Module Market Size | Industry Growth Report 2035

Coherent Optical Module Market report highlights growth from USD 1.38 Billion in 2025 to USD 4.28 Billion by 2035, reflecting a

Apr 06, 2026

### Optical Module Chip Market 2025

The optical module chip market exhibits a fragmented yet competitive structure with global technology providers, semiconductor

Dec 10, 2025

### Optical Module Procurement Guide

Purchasing an optical module means balancing the upfront price with whatever reliability exists should the module fail

Feb 23, 2026

### 2025 Optical Module Market Share and Demand Report

The 2025 optical communication industry is driven by AI data centers (AIDCs) and 5G rollouts, with high-speed

Oct 06, 2025

### Deep Dive: Optical Module Market

What are Optical Modules? Optical modules are devices used in fiber optic communications to transmit and receive

Feb 20, 2026

Top 28 Optical Communication Systems Companies

Want to Find More Optical Communication Systems Companies? If you want to find more companies that provide optical

Jul 26, 2026

Rising Fiber Optic Prices and Supply Challenges: Cost Trends

Taking high-speed optical transceiver modules as an example, prices have been rising steadily since their initial

Mar 03, 2026

LightCounting :: Component shortages limit growth in transceiver sales

Sumitomo Electric (another leading supplier of EMLs) also reported double-digit growth in Q4 2024. Chinese optical module

Nov 30, 2025

What is Optical Link Module?

Explore the world of optical link modules, essential components in optical fiber communication. Learn about the different types of

Feb 11, 2026

How to Reduce Optical Module Costs | SFP & QSFP Cost

In today's rapidly evolving network environments, reducing operational costs is a top priority for data centers, telecom

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.greatpremiersolutions.co.za>

Email: [sales@greatpremiersolutions.co.za](mailto:sales@greatpremiersolutions.co.za)

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

