

## Price of one optical module



### AI Overview

Optical module prices vary widely, from around \$10 for basic 10G SFP modules to over \$130,000 for high-end 800G coherent modules, depending on speed, distance, and vendor.

**Price Ranges by Module Type**

- 10G SFP Modules:** Typically range from \$10 to \$300, depending on transmission distance, brand, and optical technology. Short-range SR modules are at the lower end, while long-range LR modules cost more due to single-mode optics and stricter tolerances.
- 400G QSFP-DD Modules:** Entry-level SR8 modules for in-rack connections cost \$1,400–\$1,800 from reputable third-party vendors. DR4 and FR4 modules are moderately priced, while LR4 and ZR modules from OEMs can exceed \$10,000.
- 800G Modules:** High-speed 800G modules, especially coherent ZR+ types for long-haul data center interconnects, can cost over \$130,000 from OEMs. Third-party options for shorter distances are significantly cheaper but still expensive due to advanced DSP chips and high-speed electronics.

**Factors Affecting Optical Module Prices**

- Electronic Components:** DSP chips, driver ICs, and TIAs are major cost contributors, especially in 400G and 800G modules. DSP chips alone can account for 25% or more of total module cost.
- Raw Materials:** Lasers, silicon wafers, and photonic components are expensive and sourced from specialized suppliers.
- R&D and Design Complexity:** High-speed modules require advanced design, simulation, and engineering talent, which can account for 20–30% of total cost.
- Transmission Distance and Technology:** Longer distances and coherent optics increase cost due to stricter tolerances and higher performance requirements.
- Vendor Type:** OEM modules are generally more expensive than third-party alternatives due to branding, support, and proprietary technology.
- Market Dynamics:** Supply chain disruptions, demand surges, and adoption of new standards (e.g., 400G, 800G) can temporarily increase prices.

**Summary**

Optical module pricing is highly variable and depends on speed, distance, technology, and vendor. For budgeting p...

## Article Content

### 1.6T/800G InfiniBand XDR Transceivers/DACs In

NADDOD offers 1.6T/800G InfiniBand XDR solutions, which combine transceivers with cables. The transceiver portfolio includes 1.6T 2xDR4 and 2xFR4 OSFP224

### 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

### AOC, DAC, Fiber Optic Transceivers | One-Stop Shop for Datacenter

Online shopping. w/24h-delivery, 7Days & Refund Guarantee. CE, RoHS and ISO9001 Certified. SFP+ Cables, QSFP+ Cables, MiniSAS Cables, XFP Cables, CX4 Cables and Fiber Optic Transceivers.

### Optical Modules

This report aims to provide a comprehensive presentation of the global market for Optical Modules, focusing on the total sales volume, sales revenue, price, key companies market share and

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### What Is an SFP and How It Works Explained

SFP Module Types The SFP transceiver for fiber optics is designed to work with the bulk of modern networks. If you're working with copper connections, you will primarily find 1000BASE-T and

### 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 device used in high-bandwidth data

### 1.6T 2xDR4 TRO OSFP Transceiver Module | Lumentum

Lumentum's 1.6T 2xDR4 TRO OSFP transceiver delivers ultra-high-speed optical connectivity for AI and cloud data centers requiring the highest density and

### What Is LPO Optical Transceiver Module?

Their power consumption and pricing are intricately linked to user purchasing decisions. In 2007, a 10 Gigabit (10Gbps) optical module consumed roughly 1W of power. Fast forward to 40G,

## optical module Price

Comparing optical module prices. You can easily wholesale quality optical module at wholesale prices on Made-in-China .

## Optical Module Price, 2026 Optical Module Price Manufacturers ...

The Optical Module Price is a key item within our extensive Communication Module selection. When seeking a communication module, prioritize factors such as compatibility with your system, speed &

## 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, silicon photonics, and next-generation data center connectivity solutions.

## Which Optics Stock Has Dominated in 2026: Applied Optoelectronics ...

The optics complex has been one of 2026's most rewarding corners of the AI infrastructure trade, and the spread among the three leaders is surprisingly wide. Applied

## SFP Module Price

Find competitive sfp module prices for various optical transceivers. Our range includes 1.25G, 10G, and 25G modules with different reach and compatibility.

## 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

## Why 1.6T Optical Transceivers Overtake 800G in 2026

1.6T optical transceivers are overtaking 800G in 2026 AI clusters because NVIDIA Blackwell GB200 systems require doubled bandwidth per port, Silicon Photonics

## 1.6T OSFP224 | AI Ethernet Modules

FS provides 1.6T OSFP224, free & fast delivery, expert tech support, outstanding warranties.

## 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 modules, electronic chips can account for 20%–40% or more of total cost,

## Why Fiber Optic Prices Exploded from Early 2026

From late 2025 through the first quarter of 2026, the global fiber optic cable market experienced one of the sharpest and most unexpected price surges in its history. Standard single

#### 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

#### Cisco 40GBASE QSFP Modules Data Sheet

Cisco QSFP-40G-BD-RX The Cisco QSFP 40-Gbps BiDi monitor is a pluggable optical module for use with link monitor hardware, such as the Cisco Nexus ® Data Broker. Like the QSFP

#### Sivers Semiconductors Collaborates With Jabil on Energy Efficient

Through this collaboration, Jabil plans to develop a 1.6T linear receive optical (LRO) transceiver module using Sivers' high-performance Distributed Feedback (DFB) lasers. The new

#### 800G vs. 1.6T Transceivers: Which One Fits Your AI Data Center in

Cost remains one of the strongest differentiators in 2026. Thanks to large-scale production and a mature ecosystem, 800G transceivers have reached a cost-efficient phase, with pricing well

#### 1.6T OSFP-XD DR8 MPO-16 Optical Transceiver | FiberMall

FiberMall OSFP-XD-1.6T DR8 transceiver is a high-performance optical module with a maximum transmission distance of 2 km, suitable for high-bandwidth requirements.

## Contact Us

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

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

Email: [info@araziyahsafety.co.za](mailto:info@araziyahsafety.co.za)

Phone: +27 72 418 3692

Address: 123 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

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