

Prices of various high-speed optical modules



Article Overview

High-speed optical modules range from tens of dollars for short-reach 100G modules to over \$130,000 for specialized long-haul 400G coherent modules, depending on speed, reach, and technology.

100G Optical Modules

The cost of 100G QSFP28 modules varies widely based on reach and technology. Short-reach SR/short-distance modules can cost \$35–\$250, while vendor-certified CWDM, LR, or FR modules typically range from \$200–\$1,000. High-end DWDM or coherent 100G modules for metro or long-haul applications can exceed \$2,000–\$20,000+. Prices are influenced by OEM vs third-party branding, warranty, and compatibility considerations .

400G Optical Modules

400G QSFP-DD modules also show significant price variation. Short-reach SR8 modules for in-rack connections are priced around \$1,400–\$1,800 from reputable third-party vendors. In contrast, coherent ZR+ modules for long-haul data center interconnects can exceed \$130,000. The final cost depends heavily on module type, transmission distance, and vendor .

800G Optical Modules...

Article Content

Active Optical Module Market Research Report 2034

Active Optical Module Market Outlook 2025-2034 The global active optical module market is valued at \$10.7 billion in 2025 and is

The Evolution of Optical Modules: Powering the Future

Optical modules are ubiquitous in data centers, telecommunications, and even emerging

High Speed Optical Modules Market (2024-2034)

The ongoing digitalization of industries is driving the adoption of high-speed optical modules across various sectors. As

High Power Optical Modules Market: \$5.35B (2024) to \$19.84B (2034)

The High Power Optical Modules (High Power Optical Transceivers) Market is experiencing robust expansion, driven

High Speed Optical Modules: Market Disruption & 11.5% CAGR Growth

The High Speed Optical Modules Market relies on a sophisticated and often geographically dispersed supply chain,

100G QSFP28 vs SFP112: High-Speed Optical Modules Comparison

QSFP28 and SFP112 are widely used optical modules in high-density data centers, computing networks, and telecommunications.

Deep Dive: Optical Module Market

Today, I'm excited to share an in-depth analysis of the global optical module market, an industry I find particularly

Optical Transceiver Modules, HUAWEI Cisco SFP SFP+ QSFP Module Price

Get Optical Transceiver Modules at Best Price, Cisco and HUAWEI SFP Module, 10G SFP+ Module, 25G SFP Module, 40g QSFP

Optical Module Chip Market 2025

Optical module chips are semiconductor devices that enable high-speed data transmission in fiber optic networks. These

Deep Dive: Optical Module Market

Optical modules are devices used in fiber optic communications to transmit and receive data through optical fibers.

Everything You Need to Know About Optical Modules

Optical transceivers are the primary components of optical modules responsible for transmitting and receiving optical

SFP Module Prices Comparison by Top 5 SFP Manufacturers 2023

Why Optical Transceiver Manufacturers Listed Below are for SFP Price Comparison
First, pick up the most relevant

Optical Transceivers

Optical transceivers have revolutionized data transmission, providing high-speed, long-distance, and secure data transmission

Optical Transceiver Pricing: Cost Ranges by Speed and

This article compares typical cost ranges across speeds and transceiver types, explains why prices vary,

Optical Modules in Intelligent Computing Scenarios

Optical Modules in Intelligent Computing Scenarios In the AI era, Huawei provides a full range of GE to 800GE optical modules,

10 companies in the optical transceiver industry chain 2024

The rapid development of AIGC has promoted the demand for 800G optical modules, and the entire industrial chain

High-Speed Data Communication Optical Modules Market (2024-2034)

The High-Speed Data Communication Optical Modules Market is witnessing a surge in innovation and product

High Speed Optical Modules Market (2024-2034)

The High Speed Optical Modules Market size is expected to reach USD 6.8 billion in 2034 registering a CAGR of 10.5.

Optical Modules Market Research Report 2034

Optical modules, which encompass transceivers, cables, amplifiers, splitters, and associated components, serve as the backbone of

Strategic Trends in High Speed Optical Modules Market 2026-2034

Explore the dynamic High Speed Optical Modules market, projected to reach \$14.6 billion in 2024 with a 14.2% CAGR.

Global High-Speed Data Communication Optical Modules Market

Chapter 2, to profile the top manufacturers of High-Speed Data Communication Optical Modules, with price, sales quantity, revenue,

Comprehensive Guide to Optical Transceiver Classifications and

Introduction Optical modules are critical components in fiber optic communications, enabling the conversion between

Optics Transceiver Module Market 2025

This market research report provides a comprehensive analysis of the Global and regional Optics Transceiver Module markets,

Cisco Optics | Transform Your Network

Pluggable optics enable high data-rate transmission between servers, switches, and routers. Get

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics

Optical Modules Evolution and Innovation From 400G to 1.6T

Explore the evolution of optical modules in speed and form factors from 400G to 1.6T, stressing key enhancement

High-Speed Optical Transceiver Modules: Architecture, Types ...

Discover high-speed optical transceiver modules for 10G/25G/40G/100G+ networks. Learn about SFP, QSFP, XFP,

Cost of optical module electronic chips | Weyland

The high-speed DSP market is dominated by a few international vendors such as Marvell, Broadcom, and MaxLinear,

Global High-Speed Data Communication Optical Modules Market

This report critically examines the implications of recent tariff adjustments and international strategic countermeasures

Designing a Module for High-Speed Optical Communication

The ultimate goal for all-optical connectivity with an ultra-high F5G bandwidth is to increase transmission rates. Optical modules —

Optical Module Procurement Guide

The launch of high-speed optical modules like 25G, 40G, and 100G is transforming pricing

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Optical Module Evolution: From 400G to 3.2T

The transition from 400G to 3.2T optical modules is not simply a race for higher speeds — it represents a

Optical Transceivers & Modules | High-Speed Fiber Optic Solutions ...

Optical Transceivers > Compact modules supporting various data rates and form factors, enabling high-speed optical communication

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Optical Transceiver Pricing: Cost Ranges by Speed and

See practical price ranges for 1G-100G optical transceivers, DAC/AOC options, and why cost varies by

Optical Module Chip Market 2025

Average selling prices for 100G optical modules have declined approximately 70% over the past five years, forcing chip vendors to

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