

Optical module chip for sale price



AI Overview

Optical module chip prices range from around \$15 for low-end 100G modules to over \$1,300 for high-performance 800G modules. Price Ranges by Module Type

Low-end 100G modules: Starting at approximately \$15–\$20 per chip for procurement-friendly or prototype options, suitable for small-scale or industrial applications (e.g., 100G QSFP AOC).

Standard 400G modules: Typically priced between \$600–\$800 per chip, depending on vendor, technology, and volume.

High-end 800G modules: Prices range from \$700–\$1,900, with premium options for AI data centers or long-reach applications (e.g., OSFP-FR4 or QSFP-DD-DR8).

Factors Influencing Price

Technology and Speed: Higher-speed chips (400G–800G) require advanced photonic integrated circuits, tunable lasers, and digital signal processing, which significantly increase cost.

Vendor Tier: OEM modules from brands like Cisco or Arista can command a 30–50% premium over third-party compatible modules.

Volume Discounts: Bulk orders reduce per-unit cost, with discounts of 10–30% for orders exceeding 1,000–5,000 units.

R&D and Materials: Costs of wafers, lasers, modulators, and precision manufacturing contribute heavily to the final price, especially for cutting-edge silicon photonics chips.

Customization: Special wavelengths, extended temperature ranges, or additional testing can add 15–30% to the base price.

Summary

For a single optical module chip, prices vary widely based on speed, technology, vendor, and order volume. Low-end 100G chips can be as inexpensive as \$15–\$20, mid-range 400G chips around \$600–\$800, and high-performance 800G chips can exceed \$1,300, particularly for AI or long-reach applications. Understanding these factors is essential for budgeting and procurement planning in data centers or telecom networks.

Article Content

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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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Optical Module Chip Market, Trends, Business Strategies 2025-2032

The global Optical Module Chip Market size was valued at US\$ 823 million in 2024 and is projected to reach US\$ 1.52 billion by 2032, at a CAGR of 8.

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Light-emitting diode

In a light-emitting diode, the recombination of electrons and electron holes in a semiconductor produces light (infrared, visible or UV), a process called

Cost of optical module electronic chips | Weyland

The cost share of electronic chips varies significantly depending on the data rate of the optical module. For traditional 10G and 25G optical modules, the structure is relatively simple, and

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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 achieve aggressive cost

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This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Optical Module DSP Chip

Global Optical Module DSP Chip Market Research Report 2026

This report will assist Optical Module DSP Chip manufacturers, new entrants, and companies across the industry value chain with information on revenues, production, and average

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Global Optical Module DSP Chip Market 2025

Optical module DSP (digital signal processing) chip is a special integrated circuit used in the field of optical communication. It is mainly used to process digital signals in optical communication to

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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

Contact Us

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