

Price of a single optical module chip



Summary of Content

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 .

Article Content

Cost structure of optical module chips | Weyland

The overall cost of an optical module chip depends on material choices, design complexity, manufacturing processes,

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

SFP Module Price

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

OPTICAL MODULE Price

Check OPTICAL MODULE price from the latest Cisco price list 2022.

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

Optical Module: A Comprehensive Analysis from Source

Due to differences in demand, there can be significant price variations when acquiring chips

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Optical Module Chip Market - PW Consulting Information

Optical Module Chip Market Optical Module Chip Market Size, Share & Industry Analysis, By Component (Laser

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

Cost of optical module electronic chips | Weyland

For traditional 10G and 25G optical modules, the structure is relatively simple, and electronic chips typically account

Optical Module MCUs Become Critical as AI Data Centers Drive

MCU chips powering optical modules have emerged as a critical semiconductor segment driven by the AI data center

From optical modules to chips -

Huagong Tech, an optical module manufacturer based in central China's Wuhan, launched the world's first 12.8-terabit

Optical Modules Market Size, Growth Trends & Forecast

The region's large manufacturing base also ensures cost competitiveness, enabling rapid adoption and deployment of

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

Optical Modules

This report aims to provide a comprehensive presentation of the global market for Optical Modules, focusing on the

From optical modules to chips: China's tech supply chains sustain ...

Huagong Tech, an optical module manufacturer based in central China's Wuhan, launched the world's first 12.8-terabit

Fiber Optic Transceiver Modules | Optoelectronics | DigiKey

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Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are Chip ...

Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are Chip Companies Still Making the Money? Assembly

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

Optical Module Package Market 2025

However, price sensitivity in developing markets often delays the adoption of premium optical solutions, and trade restrictions

China Optical Module, Optical Module Wholesale, Manufacturers,

Searching for wholesale options or partnering with a trusted distributor can help you find cheap fiber optic solutions without

optical module Price

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

Solar Module Prices 2025: Complete Guide To Current Costs & Trends

Comprehensive guide to solar module prices in 2025. Current costs, market trends, buying strategies, and price

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,

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