Wholesale Price of Optical Module Chips



Overview

Cost of optical module electronic chips | WeylandFor traditional 10G and 25G optical modules, the structure is relatively simple, and electronic chips typi.

Key Takeaways

Wholesale optical module chips typically range from a few dollars for basic 10G modules to several hundred dollars for high-speed 400G or 800G DSP-based chips, depending on type and performance.

Overview of Wholesale Pricing

Optical module chips are core components of transceivers, including laser chips (DML/EML), photodetectors (PIN/APD), driver ICs, and DSPs. Prices vary significantly based on speed, reach, and technology: 10G–25G modules: Basic DML or PIN chips for short-reach applications are generally the most affordable, often priced at $5–$20 per chip in bulk purchases. 100G modules: DSP-based chips for 100G modules, including signal equalization and error correction, typically cost $50–$150 per unit wholesale.

400G–800G modules: High-performance chips, such as Broadcom DSPs combined with VCSEL/PD solutions for 400G or 800G modules, can range from $200–$500 per chip in bulk, depending on supplier and volume.

Factors Affecting Wholesale Prices

Chip Type and Functionality: EML lasers for long-reach modules are more expensive than DML lasers for short-reach modules.

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P chips for high-speed modules add significant cost. Volume and Bulk Orders: Purchasing in tape-and-reel format or large quantities reduces per-unit cost and ensures supply stability. Supplier and Region: Major suppliers include Coherent Corp, Lumentum, Accelink Technologies, and manufacturers from China, India, and Korea.

Prices can vary by region and manufacturer. Market Demand: Growth in 5G, hyperscale data centers, and AI-driven cloud computing increases demand for high-speed chips, which can influence wholesale pricing.

Where to Source Wholesale Chips

Global Sources and Made-in-China platforms list verified manufacturers offering factory prices for bulk optical module chips.

COBTE

L and Weyland provide specialized high-speed modules and chips suitable for 400G–800G applications.

Summary

Wholesale optical module chip prices are highly dependent on speed, technology, and volume. Basic 10G–25G chips are inexpensive, while high-speed 400G–800G DSP-based chips are significantly costlier. Bulk purchasing from verified manufacturers ensures lower per-unit costs, supply stability, and scalability for production or integration into optical transceivers.

Article Content

Cost of optical module electronic chips | Weyland

For traditional 10G and 25G optical modules, the structure is relatively simple, and electronic chips typically account for 10%–20% of total cost, while optical components and packaging

Cost structure of optical module chips | Weyland

Understanding the cost structure of optical module chips is essential for developers, investors, and network operators, as it heavily impacts pricing, profitability, and supply chain decisions.

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 reductions while maintaining performance.

Global Optical Module Chip Supply, Demand and Key Producers,

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Description The global Optical Module Chip market size is expected to reach $ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030). This report studies the global

Global Optical Module DSP Chip Market Outlook, In-Depth Analysis ...

This definitive report equips CEOs, marketing directors, and investors with a 360° view of the global Optical Module DSP Chip market, seamlessly integrating production capacity and sales performance

China Optical Chip, Optical Chip Wholesale, Manufacturers, Price

Always inquire about wholesale options and factory direct source prices from suppliers to ensure you receive top quality chips for your electronics at the best rates.

Global Optical Module Chip Market 2025 by Manufacturers, Regions,

This report is a detailed and comprehensive analysis for global Optical Module Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type

China Optical Modules, Optical Modules Wholesale, Manufacturers,

China Optical Modules wholesale - 2026 Optical Modules products in best price from Chinese Optical Fiber manufacturers, Transmitter suppliers, wholesalers and factory on Made-in-China

Global Optical Module DSP Chip Market 2025

The Optical Module DSP Chip market is highly competitive, with established players and new entrants vying for market share, putting pressure on innovation and pricing.

Optical Module DSP Chip Market

The optical module DSP chip market ran as a tight oligopoly in 2025, with dominant vendors leaning on two advantages: proprietary silicon intellectual property and close, long-running

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AI Data Center Value Chain: Every Layer from Chips to Cloud

AI data center value chain: chips to cloud. Semiconductor, GPU design, servers, networking, power, and cloud layers mapped by company. Interactive.

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Exploring Optical Module Chip Market Evolution 2026-2034

Explore the booming Optical Module Chip market forecast (2025-2033). Discover key drivers like 5G, data centers, and AI, alongside growth trends for 100G, 200G, 400G, and 800G

Deep Dive: Optical Module Market

Optical modules are typically defined by their bandwidth capacity, with the highest currently available being 800G modules. Next-generation 1.6T modules are expected to begin

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

Wholesale of optical module chips | Weyland

Wholesalers supply these chips to data center operators, telecom equipment manufacturers, and optical module assemblers, ensuring smooth production and integration. Key

From optical modules to chips -

The competitiveness of optical modules also largely hinges on the synergy of the complete upstream industrial chain, covering optical chips, ceramic packages and precision structural

Optical Module Chip Base Market Outlook 2026-2034

Optical Module Chip Base Market Insights The global Optical Module Chip Base market was valued at USD 1,846 million in 2024 and is projected to reach USD 3,211 million by 2034,

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