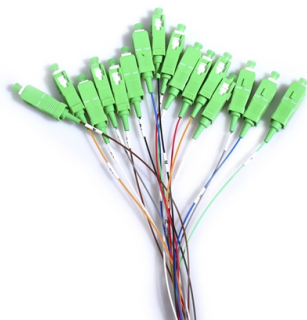


Latest Best-Selling Optical Modules



Overview

Top 10 Optical Module Manufacturers' Annual Reports. By 2025, its 800G optical module shipments will exceed 5 million units, making it the global "shipm.

Key Takeaways

The most popular optical modules include 10G SFP (SFP-10G-SR/LR), 40G QSFP+, 100G QSFP28, and high-speed 400G QSFP-DD modules, driven by data center, AI, and cloud computing demand.

Popular Module Types and Applications

10G SFP

P Modules: SFP-10G-SR (850nm, multi-mode, 300m) and SFP-10G-LR (1310nm, single-mode, 10km) are widely used for server-to-switch and building-to-building connections, making them the “bread and butter” of optical transceivers. 40G QSFP+ and 100G QSFP28: These modules are essential for high-bandwidth data center interconnects, offering low latency and high reliability. 400G QSFP-DD and Beyond: Next-generation modules like 400G QSFP-DD, 800G, and even 1.6T.

6T are increasingly adopted in AI clusters and cloud data centers to meet growing computational and data transmission demands.

Market Trends



Global sales of optical modules in 2024 were estimated at 88–117 million units, with average prices around \$150–200 per unit. The market is experiencing strong growth, particularly in Ethernet optical modules, driven by AI, cloud computing, and high-density GPU clusters. High-speed modules are becoming critical for optimizing cost per compute unit and energy efficiency in modern data centers.

Leading Manufacturers and Sourcing
OEM vs Compatible Modules: While OEM modules (Cisco, Juniper, Arista) offer brand assurance, compatible modules from manufacturers like Wolon provide high margins and cost savings for distributors. **Top Manufacturers:** Reliable third-party manufacturers are evaluated based on coding compatibility, failure rates, RMA SLA, and compliance with standards like SFF and CMIS. Chinese specialist module manufacturers have captured significant market share in high-speed segments due to efficient local supply chains and rapid technology iteration.

Key Considerations for Buyers

Compatibility: Ensure modules are fully compatible with your switches and network operating systems. **Performance:** Check digital diagnostics (DOM/DDM) and latency specifications. **Volume and Lead Time:** High-demand modules like 10G SFP and 100G QSFP28 often require bulk procurement to secure stock and favorable pricing.

Future-

Proofing: With AI and cloud workloads increasing, investing in 400G and 800G modules can provide long-term scalability. In summary, 10G SFP, 40G QSFP+, 100G QSFP28, and 400G QSFP-DD modules dominate sales due to their essential role in modern data centers, AI clusters, and telecom networks, with a growing shift toward high-speed, high-density solutions to meet evolving bandwidth demands.

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By 2025, its 800G optical module shipments will exceed 5 million units, making it the global "shipment champion" in the optical module industry, demonstrating significant economies of

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In the span of a decade, Chinese optical module companies have claimed 7 of the top 10 seats and secured core supplier status in the AI demand segment. Thanks to the 800G capacity

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10 companies in the optical transceiver industry chain 2024

To help you choose the best partner, this article will analyze and introduce 10 companies in the optical transceiver industry chain for you.

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Our in-depth market data report on Optical Module Industry. Explore verified statistics and the latest research.

Top 10 Global Optical Modules in 2023: Chinese

Recently, LightCounting, a market research institution in the optical communication industry, released the latest version of the 2023 global optical

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Active Optical Module market valued at \$10.7 billion in 2025, projected to reach \$35.6 billion by 2034 at 14.2% CAGR, driven by data center expansion and 5G deployment.

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