

Optical Module Industry 2024



Overview

Optical Modules Market Revenue was valued at USD 3.2 billion by 2023, growing at a CAGR of 10. Global Optical Modules Market Size By Product Type (Transceivers, Transponders), By Technology Type (Single-Mode Fiber (SMF), Multi-Mode Fiber (MMF)), By Application (Telecommunications, Data Centers), By Data Rate (10 Gbps, 25 Gbps), By Form Factor (SFP (Small Form-Factor Pluggable), SFP+). Optical Module Chip Market size was valued at US\$ 823 million in 2024 and is projected to reach US\$ 1.0 billion during the forecast period 2025-2032. MARKET INSIGHTS The global Optical Module Chip Market size was valued at US\$ 823 million in 2024 and is projected to reach. •AI infrastructure race fueled a Capex surge in 2024 to approximately \$200bn •2025 Capex Projection to near \$350bn and 2030 Capex projection to near \$545bn •Capex funding facilities expansion, xPU acquisition •Expectations of continued growth through 2030 with generative AI adoption both at the. The global market for Optical Modules was estimated to be worth US\$ 17590 million in 2024 and is forecast to a readjusted size of US\$ 56786 million by 2031 with a CAGR of 15.8% during the forecast period 2025-2031.



Article Content

Over 20 Million 400G & 800G Datacom Optical Module

BOSTON (January 7, 2025) – Total shipments of leading-edge datacom optical modules are projected to tally over \$9 billion for 2024, according to the latest High Speed Optical Modules Market (2024-2034)

The High Speed Optical Modules Market was valued at USD 2.5 billion in 2024 and is projected to reach USD 6.8 billion by 2034, registering a CAGR of 10.5%. This growth trajectory is

Global AI Optical Transceiver Market to Reach US\$26 Billion in 2026 ...

TrendForce's latest research indicates that the global market for AI-focused optical transceivers has entered a phase of rapid growth, with market size projected to expand from

Global Optical Modules Market 2024-2030

Optical transceivers, or optical modules, are used wherever higher volumes of data need to be sent and received. Optical modules are perfect for massive, effective data transfers in data

AI demand sends profit soaring for China optical vendor

Analyst firm LightCounting has forecast growth in the global optical module market of 22% CAGR from 2024 to 2029, reaching \$37 billion in 2029.

Photonics Integrated Circuit (IC) Market Size, Share & Analysis 2034

Photonics Integrated Circuit (IC) Market Size, Share, Growth, and Industry Analysis, By Type (Monolithic Integration, Hybrid Integration, Module Integration), By Application (Optical

Co-Packaged Optics (CPO) Market Size to Hit USD

The global co-packaged optics (CPO) market size is evaluated at USD 95.04 million in 2025 and is predicted to hit around USD 1,055.11 million by

Silicon photonics and co-packaged optics at the heart of

While linear-drive pluggable modules remain competitive, CPO is expected to offer unmatched customization and scalability, with large-scale

Optical Modules Market Research Report 2034

The global optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034, advancing at a compound annual growth

Optical Module Industry Statistics 2026

China accounts for over 70% of global optical module manufacturing, with Shenzhen and Suzhou as major production hubs. The global production capacity of 400G optical modules is

Optical Interconnect Technology Analysis: LPO, NPO, CPO

Exploring optical interconnects for AI data centers: LPO for low-power, short-distance links, NPO for high-density, near-package connections,

QSFP Optical Module Planning for the Future: Key Trends 2026-2034

Explore the dynamic QSFP optical module market, forecast to reach \$14.7 billion by 2025 with a 4.5% CAGR. Discover key drivers, trends, and applications in high-speed networking and data

Optical Transceiver Market Size, Share, Industry Report

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025. The market is expected to grow from USD 15.4 billion in

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Yole Group

Yole Group - Access daily business, market & technology updates in the semiconductor industry, our Analysts' Analysis and Presentations and more

Co-Packaged Optics — a deep dive | APNIC Blog

The optical engine of a transceiver — whether co-packaged or part of a pluggable module — typically includes an electronic integrated circuit (EIC) and

Global 200G Optical Module Market 2024 by Manufacturers, Regions,

Global 200G Optical Module Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030 Page: 153 Published Date: 10 Jan 2024 Category: Electronics & Semiconductor Single User

Optical Components Market Update

- AEC/direct attach copper cables (DACs), AOCs, and optical transceiver capacity: While there is already a high demand for AECs/DACs, AOCs, and optical transceivers to support new AI deployments, it

Deep Dive: Optical Module Market

The industry is moving towards using 1.6T modules primarily for model training, while 800G modules, which are currently heavily used for training, are expected to be more focused on

How Industry Collaboration Fosters NVIDIA Co

NVIDIA is developing a co-packaged optics (CPO) platform that integrates optical and electrical components to improve data-center connectivity,

Optical Modules

The Optical Modules market size, estimations, and forecasts are provided in terms of sales volume (K Units) and sales revenue (\$ millions), considering 2024 as the base year, with

Global and India Compact Camera Module Industry Research Report

Global and India Compact Camera Module Industry Research Report and Market Forecast 2024-2030-LG Innotek, Ofilm Group, Sunny Optical

Optical Module Chip Market 2025

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 8.0% during the forecast period 2025-2032.

Linear Pluggable Optics – An Overview

Comparison of proposed solutions: In response, several solutions such as Linear Receive Optics (LRO), Linear Pluggable Optics (LPO) and Co-Packaged Optics (CPO) have been proposed. Fig. 1

800G Optical Modules Drive Market Recovery in 2025

While the telecom market is not expected to recover significantly in Q2, Signal AI forecasts a rebound in telecom optical component revenues in

Google's High-Speed Interconnect Architecture to Push

In an OCS-enabled architecture, Ironwood TPUs rely on high-speed copper for short-reach connections, while the all-optical network handles inter

Optical Modules Market Size, Growth Trends & Forecast

Access detailed insights on the Optical Modules Market, forecasted to rise from USD 3.5 billion in 2024 to USD 8.2 billion by 2033, at a CAGR of 10.3%.

Brazil QSFP Optical Module Market CAGR 2026-2033

Global Brazil QSFP Optical Module Market Size, Strategic Opportunities & Forecast (2026-2033) Market size (2024): USD 3.45 billion · Forecast (2033): USD 12.78 billion · CAGR:

Contact Us

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