

Domestic Demand for Optical Modules in 2024



Overview

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 Optical Components Report from research firm Cignal AI. •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. 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. 52 billion by 2032, at a CAGR of 8. 0% 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. Optics Module by Application (OEM, Aftermarket), by Types (Single Mode Optical Modules, Multi Mode Optical Modules), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United Kingdom, Germany, France, Italy, Spain, Russia. The global optical modules market was valued at \$14. 5% during the forecast period from 2026 to 2034. The potential shifts in the 2025 U.

Article Content

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

Optical Module Industry Statistics 2026

The demand for low-power optical modules is increasing due to data center energy efficiency mandates, with 70% of operators prioritizing modules with <3W power consumption.

Optical Module Chip Market 2025

While the U.S. market is estimated at USD 2.4 billion in 2024, China's market is expected to grow significantly, reaching USD 4.2 billion by 2032. Optical module chips are semiconductor devices that

Single-Mode VCSEL Market Size and Key Trends 2026-2033

Executive Summary The Single-Mode VCSEL (Vertical-Cavity Surface-Emitting Laser) market report provides an in-depth, data-driven analysis of the evolving landscape of optical

Optical Components Market Outlook 2026–2035 | Size & CAGR

Asia Pacific dominates the optical components market share because of its robust manufacturing environment, strong demand from telecommunications, and the presence of key

2025 Optical Module Market Share and Demand Report

However, supply-demand mismatches and capacity bottlenecks reshape the market landscape, according to the latest industry data. source:

LightCounting Predicts High-Speed Growth in The

Market research firm Light Counting recently released its forecast for the optical components market from 2024 to 2028, and in the current industry

Optical Module Market Analysis and Forecast in 2026

AI computing power has driven explosive growth in the optical module market, with 800G and 1.6T technologies leading the industry transformation.

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%.

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

200G Optical Module Market 2025

200G Optical Module Market was valued at 2625 million in 2024 and is projected to reach US\$ 4991 million by 2032, at a CAGR of 9.9% during the forecast period.

AI Drives Doubling of 800G Optical Transceiver Shipments in 2025

Furthermore, driven by escalating demands from AI technology, shipments of 800G optical transceivers are projected to grow by 100% year-over-year in 2025. The market will also see the initial shipments

\$INTC \$TSM \$GFS \$AMKR SCOPE AND SCREEN The publicly

The asset set is strategically important to optical transport, datacenter interconnect, coherent optics, and co-packaged optics roadmaps. (Semiconductor Industry Association)

Top 15 Camera Module Companies | Global Growth Insights

China's domestic demand for camera modules grew by 15% in 2024 alone. North America: Holds about 12%, led by strong R& D in advanced driver-assistance systems (ADAS) and growing

India adds 25.3 GW solar module, 11.6 GW cell capacity

India added 25.3 GW solar module and 11.6 GW cell capacity in 2024, led by ALMM policy and strong project demand. Gujarat leads in manufacturing

Qsfp-dd Module Market Size, Trends, 2026-2033 Forecast, and

Emerging markets such as edge computing, autonomous vehicles, and IoT present new avenues for high-speed optical modules, especially as these applications demand low latency and

Lumentum Aims \$2B Quarter as AI Optics, 1.6T Transceivers Surge

MEMS-based OCS advantages— low insertion loss (<1.5 dB for 300x300), nanosecond latency, and low power —are shaping up as key for AI-driven shifts in data-center traffic and circuit

Nvidia Supplier Zhongji Innolight Market Value Nears 1 Trillion Yuan

AI demand drives Nvidia supplier Zhongji Innolight's market value near 1 trillion yuan, with Q1 2026 profit surpassing full-year 2024 results.

Understanding Optics Module Trends and Growth Dynamics

Data centers require massive interconnectivity, translating into a high demand for high-capacity optics modules. The trend towards hyperscale data centers intensifies this demand further.

Why China's optical communications sector is the latest AI boom ...

Why are optical modules in high demand? The demand for high-speed connectivity is increasing rapidly.

LightCounting :: Scale-up networks in AI Clusters is a

A surge in AI development created a new wave in demand for optical connectivity in 2023-2025 and it will sustain the market's growth through 2030. The Figure below

10G Optical Chip Market Evolution & Growth Outlook 2024-2033

The global 10G Optical Chip Market is experiencing a period of robust expansion, driven by the insatiable demand for high-speed data transmission across various sectors. Valued at an

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

Optical Module Ceramic Ferrule Market Size, Trends, 2026 ...

The Optical Module Ceramic Ferrule Market analysis provides a comprehensive, data-driven insight into the evolving landscape of optical connectivity components, emphasizing the critical

Qsfp+Modules Market Size, Trends, 2026-2033 Forecast, and

The Qsfp+Modules Market report offers a comprehensive, data-driven analysis of the evolving landscape of high-speed optical transceivers, emphasizing technological advancements,

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

Optical Module Chip Market 2025

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%

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