

Global CPO Optical Engines Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CPO Optical Engines market size was valued at US\$ 107 million in 2025 and is forecast to a readjusted size of US\$ 266 million by 2032 with a CAGR of 14.9% during review period.

CPO Optical Engines are electro-optical conversion engines co-packaged close to switch ASICs, AI accelerators or XPUs. They integrate silicon photonics, modulators, photodetectors, driver/TIA electronics, optical coupling structures and laser interfaces to reduce power consumption, latency and electrical signal loss compared with traditional pluggable optical modules. In 2025, Global CPO Optical Engines remain in the engineering-sample and early-adoption stage, with estimated sales of around 40 k units, an average ex-works price of about US\$2,600 per unit. The value chain includes silicon photonics wafers, III-V lasers, driver/TIA chips, fiber arrays, micro-lenses and packaging substrates upstream, optical engine designers, silicon photonics platforms, packaging/test providers and system integrators midstream, and AI servers, switches, cloud data centers and HPC systems downstream.

Growth is driven by bandwidth, power and density constraints in large AI clusters. As 800G, 1.6T and higher-speed interconnects stress pluggable optics, CPO places optical engines closer to switch ASICs or XPUs, shortening electrical channels and reducing SerDes/DSP power. Near-term adoption is still constrained by laser reliability, thermal management, serviceability, standardization and packaging yield.

This report is a detailed and comprehensive analysis for global CPO Optical Engines market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this

report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global CPO Optical Engines market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global CPO Optical Engines market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global CPO Optical Engines market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global CPO Optical Engines market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for CPO Optical Engines

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global CPO Optical Engines market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Broadcom, Intel, Ayar Labs, Ranovus, Ciena, Lightmatter, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

CPO Optical Engines market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

800G-Class

1.6T-Class

Others

Market segment by Photonic Platform

Silicon Photonics

InP Photonics

Others

Market segment by Host Device

Ethernet Switch ASIC

AI Accelerator / XPU

Others

Market segment by Application

AI Data Center

Cloud Networking

High-Performance Computing

Others

Major players covered

Broadcom

Intel

Ayar Labs

Ranovus

Ciena

Lightmatter

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe CPO Optical Engines product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CPO Optical Engines, with price, sales quantity, revenue, and global market share of CPO Optical Engines from 2021 to 2026.

Chapter 3, the CPO Optical Engines competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CPO Optical Engines breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and CPO Optical Engines market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of CPO Optical Engines.

Chapter 14 and 15, to describe CPO Optical Engines sales channel, distributors, customers, research findings and conclusion.

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