

Global CPO Optical Engines Market Growth 2026-2032

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Abstracts

The global CPO Optical Engines market size is predicted to grow from US\$ 102 million in 2025 to US\$ 265 million in 2032; it is expected to grow at a CAGR of 15.9% from 2026 to 2032.

CPO Optical Engines are electro-optical conversion engines co-packaged close to switch ASICs, AI accelerators or XPU's. 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 XPU's, shortening electrical channels and reducing SerDes/DSP power. Near-term adoption is still constrained by laser reliability, thermal management, serviceability, standardization and packaging yield.

LP Information, Inc. (LPI) ' newest research report, the "CPO Optical Engines Industry Forecast" looks at past sales and reviews total world CPO Optical Engines sales in 2025, providing a comprehensive analysis by region and market sector of projected CPO Optical Engines sales for 2026 through 2032. With CPO Optical Engines sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CPO Optical Engines industry.

This Insight Report provides a comprehensive analysis of the global CPO Optical Engines landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on CPO Optical Engines portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CPO Optical Engines market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CPO Optical Engines and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global CPO Optical Engines.

This report presents a comprehensive overview, market shares, and growth opportunities of CPO Optical Engines market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

800G-Class

1.6T-Class

Others

Segmentation by Photonic Platform:

Silicon Photonics

InP Photonics

Others

Segmentation by Host Device:

Ethernet Switch ASIC

AI Accelerator / XPU

Others

Segmentation by Application:

AI Data Center

Cloud Networking

High-Performance Computing

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Broadcom

Intel

Ayar Labs

Ranovus

Ciena

Lightmatter

Key Questions Addressed in this Report

What is the 10-year outlook for the global CPO Optical Engines market?

What factors are driving CPO Optical Engines market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do CPO Optical Engines market opportunities vary by end market size?

How does CPO Optical Engines break out by Type, by Application?

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