

Global CPO Optical Engines Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CPO Optical Engines market size is expected to reach \$ 266 million by 2032, rising at a market growth of 14.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global CPO Optical Engines production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CPO Optical Engines and provides market size (US\$ million) and Year-over-Year (YoY)

Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of CPO Optical Engines that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CPO Optical Engines total production and demand, 2021-2032, (K Units)

Global CPO Optical Engines total production value, 2021-2032, (USD Million)

Global CPO Optical Engines production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global CPO Optical Engines consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: CPO Optical Engines domestic production, consumption, key domestic manufacturers and share

Global CPO Optical Engines production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global CPO Optical Engines production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global CPO Optical Engines production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global CPO Optical Engines market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World CPO Optical Engines market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global CPO Optical Engines Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CPO Optical Engines Market, Segmentation by Type:

800G-Class

1.6T-Class

Others

Global CPO Optical Engines Market, Segmentation by Photonic Platform:

Silicon Photonics

InP Photonics

Others

Global CPO Optical Engines Market, Segmentation by Host Device:

Ethernet Switch ASIC

AI Accelerator / XPU

Others

Global CPO Optical Engines Market, Segmentation by Application:

AI Data Center

Cloud Networking

High-Performance Computing

Others

Companies Profiled:

Broadcom

Intel

Ayar Labs

Ranovus

Ciena

Lightmatter

Key Questions Answered:

1. How big is the global CPO Optical Engines market?
2. What is the demand of the global CPO Optical Engines market?
3. What is the year over year growth of the global CPO Optical Engines market?
4. What is the production and production value of the global CPO Optical Engines market?

5. Who are the key producers in the global CPO Optical Engines market?
6. What are the growth factors driving the market demand?

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