

Global Co-Packaged Optics Engine 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 Co-Packaged Optics Engine market size was valued at US\$ 81.25 million in 2025 and is forecast to a readjusted size of US\$ 1266 million by 2032 with a CAGR of 43.3% during review period.

In 2025, global Co-Packaged Optics Engine production reached approximately 105 K Units, with an average global market price of around 754 USD per Unit.

A Co-Packaged Optics Engine, or CPO Optical Engine, is an optoelectronic conversion component integrated within the same package or near-package area as high-bandwidth electronic chips such as switch ASICs, AI accelerators, or network processors. It typically consists of silicon photonic chips, modulators, photodetectors, drivers, TIAs, optical coupling structures, control circuits, fiber arrays, and advanced packaging elements, enabling high-speed conversion and transmission between electrical and optical signals close to the chip. Compared with conventional pluggable optical modules, a CPO optical engine is positioned much closer to the compute or switching silicon, helping shorten high-speed electrical links, reduce signal loss and power consumption, and improve system-level port density and interconnect efficiency.

The core value of a Co-Packaged Optics Engine lies in moving optical interconnect capability from external modules to the chip-adjacent domain, directly addressing the growing challenges of power consumption, signal integrity, thermal management, and front-panel density in AI data centers and high-performance computing networks. As AI training clusters scale, switch ASIC bandwidth increases, and 800G, 1.6T, 3.2T, and higher-speed architectures accelerate, traditional pluggable optics are increasingly

constrained by system efficiency and physical space limitations. With advantages in lower power, higher density, shorter interconnect paths, and closer optoelectronic co-integration, CPO optical engines are emerging as a critical technology direction for next-generation AI networking and high-end switching systems. Looking ahead, as silicon photonics processes, external laser sources, advanced packaging, automated optical coupling, and system-level validation continue to mature, CPO optical engines are expected to move from early high-end deployments into broader data center and HPC adoption, becoming a key value unit in the transition from module-level optical upgrades to system-level interconnect redesign.

The upstream raw materials for Co-Packaged Optics Engine mainly include silicon photonic chips, laser light sources, driver chips, DSPs, etc. Typical raw material suppliers include Intel, Marvell, Cisco, Lumentum, Coherent, Broadcom, etc. The downstream applications are mainly silicon photonic modules used in data centers, high-performance computing, and other fields. Typical downstream users include Amazon AWS, Microsoft Azure, Google Cloud, Huawei, ZTE, Alibaba, Tencent, etc.

The single-line capacity of Co-Packaged Optics Engine is mainly affected by the silicon photonics PIC wafer manufacturing yield, optoelectronic chip mounting accuracy, fiber array coupling efficiency, active/passive alignment process, packaging and testing cycle time, and high-speed optoelectronic performance screening time. Among these factors, packaging coupling and testing are usually the key bottlenecks for capacity ramp-up.

This report is a detailed and comprehensive analysis for global Co-Packaged Optics Engine 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 Co-Packaged Optics Engine market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Co-Packaged Optics Engine 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 Co-Packaged Optics Engine 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 Co-Packaged Optics Engine 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 Co-Packaged Optics Engine

- 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 Co-Packaged Optics Engine 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 Marvell Technology, Inc., Acacia (Cisco Systems), Broadcom Inc., Intel Corporation, Ayar Labs, Lightmatter, Ranovus, DustPhotonics (Credo Technology), SCINTIL Photonics, Sicoya, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Co-Packaged Optics Engine 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

- 400G and Below

800G

1.6T

3.2T

6.4T and Above

Market segment by Function

Transmitter Optical Engine

Receiver Optical Engine

Others

Market segment by Application

Data Center

High-performance Computing (HPC)

Other

Major players covered

Marvell Technology, Inc.

Acacia (Cisco Systems)

Broadcom Inc.

Intel Corporation

Ayar Labs

Lightmatter

Ranovus

DustPhotonics (Credo Technology)

SCINTIL Photonics

Sicoya

Accelink

SiFotonics

Elite Photonics

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 Co-Packaged Optics Engine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Co-Packaged Optics Engine, with price, sales quantity, revenue, and global market share of Co-Packaged Optics Engine from

2021 to 2026.

Chapter 3, the Co-Packaged Optics Engine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Co-Packaged Optics Engine 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 Co-Packaged Optics Engine 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 Co-Packaged Optics Engine.

Chapter 14 and 15, to describe Co-Packaged Optics Engine sales channel, distributors, customers, research findings and conclusion.

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