

# Global Hybrid Photonic Integrated Circuit Market Growth (Status and Outlook) 2024-2030

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## Abstracts

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Photonic integrated circuit (PIC) is a sophisticated integrated circuit incorporating multiple optical devices/functions into a unique optical package. The main difference between a photonic integrated circuit and an electronic circuit is that photonic ICs use photons as data carriers unlike electronic ICs which use electrons for transferring data. In addition, a photonic integrated circuit is analogous to electronic integrated circuits.

The global Hybrid Photonic Integrated Circuit market size is projected to grow from US\$ 640.8 million in 2023 to US\$ 888 million in 2030; it is expected to grow at a CAGR of 4.8% from 2024 to 2030.

LPI (LP Information)' newest research report, the "Hybrid Photonic Integrated Circuit Industry Forecast" looks at past sales and reviews total world Hybrid Photonic Integrated Circuit sales in 2023, providing a comprehensive analysis by region and market sector of projected Hybrid Photonic Integrated Circuit sales for 2024 through 2030. With Hybrid Photonic Integrated Circuit sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hybrid Photonic Integrated Circuit industry.

This Insight Report provides a comprehensive analysis of the global Hybrid Photonic Integrated Circuit 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 Hybrid Photonic Integrated Circuit portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique

position in an accelerating global Hybrid Photonic Integrated Circuit market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hybrid Photonic Integrated Circuit 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 Hybrid Photonic Integrated Circuit.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

This report presents a comprehensive overview, market shares, and growth opportunities of Hybrid Photonic Integrated Circuit market by product type, application, key players and key regions and countries.

#### Segmentation by type

Quantum Dots

Graphene

Silicon

Others

#### Segmentation by application

Optical Fiber Communications

Biomedical

Optical Fiber Sensor

Quantum Computing (datacenters)

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 analyzing the company's coverage, product portfolio, its market penetration.

Infinera Corporation

NeoPhotonics Corporation

Huawei Global

OneChip Photonics

Lumentum

JDS Uniphase

Intel Corporation

Broadcom

Ciena Corporation

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