

# **Global Photonic Chip (Optical Chip) 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 Photonic Chip (Optical Chip) market size was valued at US\$ 4529 million in 2025 and is forecast to a readjusted size of US\$ 11970 million by 2032 with a CAGR of 15.1% during review period.

Optical chips are core components for realizing basic optical communication functions such as optical-to-electrical, electrical-to-optical, branching, attenuation, and wave combination and demultiplexing, and are widely used in optical devices and optical modules. According to the classification of optical devices, optical chips are mainly divided into active optical chips and passive optical chips. Active optical chips are further divided into laser optical chips and detector optical chips according to their application, mainly including FP, DFB, EML, VCSEL, PIN and APD chips; passive optical chips mainly include PLC (planar waveguide circuit) and AWG (arrayed waveguide grating) chips.

Optical chips are the basic components for realizing photoelectric signal conversion, and their performance directly determines the transmission efficiency of optical communication systems. Optical communication systems use optical signals as information carriers and optical fibers as transmission media, and convert electrical signals into optical signals for transmission through electro-optical conversion. During the signal transmission process, the transmitter performs electro-optical conversion through the laser chip to convert the electrical signal into an optical signal, which is transmitted to the receiving end through the optical fiber. The receiving end performs photoelectric conversion through the detector chip to convert the optical signal into an electrical signal. In network systems such as fiber-optic access, 4G/5G mobile

communication networks, and data centers, optical chips are key components that determine information transmission speed and network reliability.

### Market Trends

With the explosive growth of global data traffic, the optical chip market is heating up rapidly. Driven by 5G communications, data center expansion, artificial intelligence, and large model computing needs, optical chips are gradually replacing traditional electrical chips to become core devices for high-speed data transmission. In the field of optical communications, high-speed modules such as CWDM and DWDM widely use integrated optical chips to improve bandwidth and energy efficiency; in data centers and cloud computing platforms, silicon photonics technology promotes the trend of optoelectronic fusion and realizes low-latency and low-power data transmission. In addition, optical chips also show great development potential in emerging fields such as LIDAR, quantum communications, sensing, and biometrics.

### Market Disadvantages

Although optical chips have significant advantages such as high bandwidth, low power consumption, and high-speed transmission, they still have many disadvantages in the industrialization process. The first is the high manufacturing cost. At present, optical chips mostly rely on III-V semiconductors (such as InP, GaAs) or silicon photonic materials. The production process is complex and the yield is unstable, resulting in high unit prices, which is not conducive to large-scale applications. Secondly, the industrial chain is not yet perfect. From wafer manufacturing, packaging and testing to system integration, there are still 'bottleneck' problems in each link, especially domestic companies still rely on imports for core optoelectronic materials and high-speed modulators.

### Market Outlook

With the maturity of silicon photonics technology, the advancement of packaging and integration technology, and the acceleration of domestic substitution, the manufacturing cost of optical chips will gradually decrease, driving them from high-end communication equipment to consumer applications. It is expected that in the next 5-10 years, optical chips will be widely deployed in data center interconnection, AI servers, high-speed switches, smart cars (such as lidar) and AR/VR. At the same time, the development of optical quantum computing and ultra-high-speed optical interconnection has also brought new growth engines for optical chips.

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

Global Photonic Chip (Optical Chip) 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 Photonic Chip (Optical Chip) 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 Photonic Chip (Optical Chip) 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 Photonic Chip (Optical Chip)

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 Photonic Chip (Optical Chip) 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 Coherent (Finisar), Sumitomo Electric, Mitsubishi Electric, Lumentum, Broadcom, Huawei Hisilicon, Accelink Technologies, Hisense Broadband, HGTECH Co.,Ltd, Wuhan Mindsemi, etc.

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

## Market Segmentation

Photonic Chip (Optical Chip) 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

FP Chip

DFB Chip

EML Chip

VCSEL Chip

PIN Chip

APD Chip

PLC Chip

AWG Chip

### Market segment by Optical Devices

Optical Active Device Chips

Optical Passive Device Chips

## Market segment by Application

5G Base Station

Data Center

Consumer Electronics

Others

## Major players covered

Coherent (Finisar)

Sumitomo Electric

Mitsubishi Electric

Lumentum

Broadcom

Huawei Hisilicon

Accelink Technologies

Hisense Broadband

HGTECH Co.,Ltd

Wuhan Mindsemi

Sanan Optoelectronics

Wooriro

AL Tech Inc

Yuanjie Semiconductor Technology

Shenzhen PHOGRain Technology

Shenzhen ZKOSEMI Semiconductor Technology

Sino-Semiconductor Integrated Optoelectronics Cooperation

Wuhan Qianmu Laser

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Wayoptics

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Shanghai Honghui Optics Communication

Toptical Technology

T&S Communications

Wuxi Advance Optical Fiber

Ningbo Hyper Photonix

Suzhou TFC Optical Communication

Dongguan Shengchuang Photoelectric Technology

Shenzhen Li-Chip Technology

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 Photonic Chip (Optical Chip) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photonic Chip (Optical Chip), with price, sales quantity, revenue, and global market share of Photonic Chip (Optical Chip) from 2021 to 2026.

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

Chapter 4, the Photonic Chip (Optical Chip) 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 Photonic Chip (Optical Chip) 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 Photonic Chip (Optical Chip).

Chapter 14 and 15, to describe Photonic Chip (Optical Chip) sales channel, distributors, customers, research findings and conclusion.

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