

# Global InP Laser IC 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 InP Laser IC market size was valued at US\$ 1060 million in 2025 and is forecast to a readjusted size of US\$ 2344 million by 2032 with a CAGR of 6.5% during review period.

InP Laser IC is a semiconductor laser chip prepared with indium phosphide (InP) as the core substrate material. It is mainly based on material systems such as InGaAs, and achieves specific wavelength laser output through epitaxial growth and micro nano structure design. The typical working wavelength is concentrated in the communication windows of 1.3  $\mu$ m and 1.55  $\mu$ m, and it has the characteristics of low loss, high modulation rate, and good temperature stability. It is widely used in optical communication (such as DFB, EML lasers), data centers, optical modules, and sensing fields, and is a key core device in high-speed optoelectronic conversion and optical interconnect systems. In 2025, global InP Laser IC production reached approximately 313.11 M Units, with an average global market price of around US\$ 3.29 per unit.

The market for indium phosphide laser chips is a core high-end link in the high-speed optical communication industry chain, showing a trend of continuous demand growth and accelerated technological iteration. On the one hand, driven by the rapid expansion of data centers, cloud computing, and AI computing infrastructure, the demand for high-speed optical modules (100G, 400G, 800G and above) has significantly increased, driving the rapid growth of demand for DFB and EML laser chips. On the other hand, coherent communication and long-distance transmission are driving the continuous upgrading of high-performance InP devices. At the same time, the development of silicon optical technology is promoting the heterogeneous integration of InP and silicon-based platforms, forming the mainstream route of 'silicon optical+InP light source'. In the competitive landscape, European, American, and Japanese companies still

dominate the high-end market, but Chinese manufacturers are accelerating in the field of medium to high rate products. Breakthrough and promote domestic substitution, future market growth will mainly be driven by AI Driven by the upgrading of data centers, ultra high speed optical interconnects, and optoelectronic integration technologies, the overall trend is towards high-end, integrated, and large-scale development.

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

Global InP Laser IC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global InP Laser IC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global InP Laser IC market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 InP Laser IC

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 InP Laser IC 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 II-VI Incorporated, Lumentum, nLight, IPG, Coherent, Dilas, Jenoptik, Osram, NeoPhotonics, Broadcom, etc.

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

## **Market Segmentation**

InP Laser IC 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 Laser Chip

Distributed Feedback Laser Chip

EML Chip

### Market segment by Wavelength

Wavelength 808nm

Wavelength 850nm

Wavelength 905nm

Wavelength 915nm

Wavelength 940nm

Wavelength 976nm

Wavelength 1064nm

Other

#### Market segment by Power

Power100W

#### Market segment by Application

Automobile

Medical Industry

Electronic Communication

Aerospace

Industrial

Others

#### Major players covered

II-VI Incorporated

Lumentum

nLight

IPG

Coherent

Dilas

Jenoptic

Osram

NeoPhotonics

Broadcom

Raybow Opto

Suzhou Everbright Photonics

Wuhan Bright Diode Laser Technologies

Yuanjie Semiconductor 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 InP Laser IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of InP Laser IC, with price, sales quantity, revenue, and global market share of InP Laser IC from 2021 to 2026.

Chapter 3, the InP Laser IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the InP Laser IC 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 InP Laser IC 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 InP Laser IC.

Chapter 14 and 15, to describe InP Laser IC sales channel, distributors, customers, research findings and conclusion.

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