

# Global GaAs Epitaxial Wafers Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global GaAs Epitaxial Wafers market size was valued at US\$ 480 million in 2024 and is forecast to a readjusted size of USD 833 million by 2031 with a CAGR of 8.4% during review period.

A GaAs epitaxial wafer is a single crystal thin layer material epitaxially grown on a GaAs substrate.

As a second-generation semiconductor, GaAs is expensive and is known as the 'semiconductor aristocracy'. GaAs is internationally recognized as the most mature compound semiconductor material after 'silicon'. It has superior characteristics such as high frequency, high electron mobility, high output power, low noise and good linearity. It is one of the most important supporting materials for the optoelectronics and microelectronics industries. The second generation of semiconductors represented by gallium arsenide is widely used in the manufacture of high-frequency, high-speed, high-power, low-noise, high-temperature resistant, and radiation-resistant integrated circuits. It has developed into a key technology for 'modern electronic information products' and 'information highways'. The 5G chip market is very good and the products are in short supply. Gallium arsenide (GaAs) is an indispensable component for optoelectronics and mobile phone network high-frequency communications. In recent years, with the surge in the application of the Internet of Things (IoT), Internet of Vehicles, and AI (artificial intelligence), countries have accelerated the deployment of 5G infrastructure. In addition, the introduction of facial recognition function by Apple iPhoneX has driven a surge in demand for gallium arsenide VCSEL and high-end communication components.

The market for gallium arsenide epitaxial wafers is concentrated. In the global market, the top companies are all large companies. IQE is the leader so far, with nearly 49% of the revenue market share. From a regional perspective, GaAs industry chain suppliers are mainly concentrated in Europe, the United States, Japan, and Taiwan. The main suppliers in the industry include IQE, New Optoelectronics, IntelliEPI, Sumitomo Chemical and Lianya Optoelectronics. GaAs epitaxial wafer production capacity is highly concentrated and the industry barriers are high.

GaAs epitaxial wafers can be classified according to their manufacturing methods. The MOCVD method accounts for 70% of the global revenue market share.

GaAs semiconductors have the characteristics of high operating frequency, electron migration rate, resistance to natural radiation and low power consumption, and are widely used in the field of microwave communications. On the one hand, as smartphones enter the 5G era, the demand for multi-mode and multi-frequency GaAs microwave power devices will increase significantly compared to the 4G era. VCSEL will become one of the important growth points of GaAs in the future.

This report is a detailed and comprehensive analysis for global GaAs Epitaxial Wafers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Size 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.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

### **Key Features:**

Global GaAs Epitaxial Wafers market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global GaAs Epitaxial Wafers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global GaAs Epitaxial Wafers market size and forecasts, by Size and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global GaAs Epitaxial Wafers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2020-2025

### **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 GaAs Epitaxial Wafers
- 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 GaAs Epitaxial Wafers 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 IQE Corporation, Sumitomo Chemical, IntelliEPI, VPEC, II-VI Incorporated, LandMark Optoelectronics Corporation (LMOC), etc.

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

### **Market Segmentation**

GaAs Epitaxial Wafers market is split by Size and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Size, 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 Size

4 Inches (100 mm)

6 Inches (150 mm)

8 Inches (200 mm)

Others

## Market segment by Application

RF Field

Optoelectronic Devices

Others

## Major players covered

IQE Corporation

Sumitomo Chemical

IntelliEPI

VPEC

II-VI Incorporated

LandMark Optoelectronics Corporation (LMOC)

## 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 GaAs Epitaxial Wafers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaAs Epitaxial Wafers, with price, sales quantity, revenue, and global market share of GaAs Epitaxial Wafers from 2020 to 2025.

Chapter 3, the GaAs Epitaxial Wafers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaAs Epitaxial Wafers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Size and by Application, with sales market share and growth rate by Size, by Application, from 2020 to 2031.

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 2020 to 2025. and GaAs Epitaxial Wafers market forecast, by regions, by Size, and by Application, with sales and revenue, from 2026 to 2031.

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 GaAs Epitaxial Wafers.

Chapter 14 and 15, to describe GaAs Epitaxial Wafers sales channel, distributors, customers, research findings and conclusion.

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