

# Global GaAs Epitaxial Wafers Market Growth 2025-2031

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## Abstracts

The global GaAs Epitaxial Wafers market size is predicted to grow from US\$ 488 million in 2025 to US\$ 816 million in 2031; it is expected to grow at a CAGR of 9.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

LP Information, Inc. (LPI) ' newest research report, the "GaAs Epitaxial Wafers Industry Forecast" looks at past sales and reviews total world GaAs Epitaxial Wafers sales in 2024, providing a comprehensive analysis by region and market sector of projected GaAs Epitaxial Wafers sales for 2025 through 2031. With GaAs Epitaxial Wafers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaAs Epitaxial Wafers industry.

This Insight Report provides a comprehensive analysis of the global GaAs Epitaxial Wafers 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 GaAs Epitaxial Wafers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaAs Epitaxial Wafers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaAs Epitaxial Wafers and breaks down the forecast by Size, 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 GaAs Epitaxial Wafers.

This report presents a comprehensive overview, market shares, and growth opportunities of GaAs Epitaxial Wafers market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Size:

4 Inches (100 mm)

6 Inches (150 mm)

8 Inches (200 mm)

Others

#### Segmentation by Application:

RF Field

Optoelectronic Devices

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

IQE Corporation

Sumitomo Chemical

IntelliEPI

VPEC

II-VI Incorporated

LandMark Optoelectronics Corporation (LMOC)

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global GaAs Epitaxial Wafers market?

What factors are driving GaAs Epitaxial Wafers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GaAs Epitaxial Wafers market opportunities vary by end market size?

How does GaAs Epitaxial Wafers break out by Size, by Application?

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