

Global GaN-on-Si Wafer 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 GaN-on-Si Wafer market size was valued at US\$ 90.1 million in 2024 and is forecast to a readjusted size of USD 514 million by 2031 with a CAGR of 27.4% during review period.

Gallium nitride (GaN) is used as the wide band gap material for next generation power semiconductors and high frequency devices. Gallium Nitride on Silicon wafers are used for both Power and 5F/RF application, D-mode GaN-on-Si HEMT & E-mode GaN-on-Si HEMT, etc. Currently the key size is 6 inch GaN Si wafer, and the 8 inch GaN Si wafer will grow faster.

Global key players of GaN-on-Si Wafer include Innoscience, Enkris Semiconductor Inc, DOWA Electronics Materials, NTT Advanced Technology (NTT-AT), IQE, etc. The top five players hold a share over 63%. China is the largest market, with a share about 47%. In terms of product type, 6 inch GaN-on-Si Wafer is the largest segment, occupied for a share of 67%. In terms of application, Consumer Electronics has a share about 87 percent.

This report is a detailed and comprehensive analysis for global GaN-on-Si Wafer 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 GaN-on-Si Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (Pieces), and average selling prices (US\$/Piece), 2020-2031

Global GaN-on-Si Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Pieces), and average selling prices (US\$/Piece), 2020-2031

Global GaN-on-Si Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Pieces), and average selling prices (US\$/Piece), 2020-2031

Global GaN-on-Si Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (Pieces), and ASP (US\$/Piece), 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 GaN-on-Si Wafer

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 GaN-on-Si Wafer 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, Soitec (EpiGaN), Transphorm Inc., Sumitomo Electric Device Innovations (SEDI) (SCIOCS), NTT Advanced Technology (NTT-AT), DOWA Electronics Materials, BTOZ, Episil-Precision Inc, Epistar Corp., Enkris Semiconductor Inc, etc.

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

Market Segmentation

GaN-on-Si Wafer market is split by Type and by Application. For the period 2020-2031, 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

6 inch GaN-on-Si Wafer

8 inch GaN-on-Si Wafer

12 inch GaN-on-Si Wafer

Others

Market segment by Application

Consumer Electronics

Industrial

Telecom & Datacom

Automotive Electronics

Defense & Aerospace

Renewable & Energy Storage

Others

Major players covered

IQE

Soitec (EpiGaN)

Transphorm Inc.

Sumitomo Electric Device Innovations (SEDI) (SCIOCS)

NTT Advanced Technology (NTT-AT)

DOWA Electronics Materials

BTOZ

Episil-Precision Inc

Epistar Corp.

Enkris Semiconductor Inc

Innoscence

China Resources Microelectronics Limited

CorEnergy

Suzhou Nanowin Science and Technology

Qingdao Cohenius Microelectronics

Shaanxi Yuteng Electronic Technology

Sanan Optoelectronics

IVWorks

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 GaN-on-Si Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN-on-Si Wafer, with price, sales quantity, revenue, and global market share of GaN-on-Si Wafer from 2020 to 2025.

Chapter 3, the GaN-on-Si Wafer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN-on-Si Wafer 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 Type and by Application, with sales market share and growth rate by Type, 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 GaN-on-Si Wafer market forecast, by regions, by Type, 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 GaN-on-Si Wafer.

Chapter 14 and 15, to describe GaN-on-Si Wafer sales channel, distributors, customers, research findings and conclusion.

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