

Global Gallium Nitride Single Crystal Substrates 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 Gallium Nitride Single Crystal Substrates market size was valued at US\$ 144 million in 2024 and is forecast to a readjusted size of USD 300 million by 2031 with a CAGR of 11.2% during review period.

This report studies the Gallium Nitride (GaN) substrate/wafers.

Currently, the mainstream product in the industry is 2-inch GaN substrate wafers, but 4-inch GaN wafers have also been commercialized. At present, GaN substrates are mainly dominated by Japanese manufacturers such as Sumitomo Electric Device and Mitsubishi. Chinese companies are in the second echelon, with representative manufacturers including Sanan Optoelectronics, Suzhou Nanowin Science and Technology, Sino Nitride Semiconductor, Eta Research Ltd and Sino Nitride Semiconductor.

Japan is the largest market of GaN substrate/wafers, driven by demand from Photoelectric Lasers (like laser TVs). Currently, due to the high cost, the commercial application of gallium nitride substrates is still on the eve of an explosion.

In next few years, we think the GaN epitaxial wafers like (GaN on Si, GaN on SiC) will grow faster, driven by Gan power devices and GaN RF devices, especially the GaN on Si wafers, driven by demand from consumer electronics, like such as mobile phone fast charging, adapters, etc. GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. In the next few years, the main market demand for gallium nitride will come from the automotive. In the

automotive, the entry point of GaN power devices is the on-board charger (OBC).

This report is a detailed and comprehensive analysis for global Gallium Nitride Single Crystal Substrates market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Wafer 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.

Key Features:

Global Gallium Nitride Single Crystal Substrates market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Gallium Nitride Single Crystal Substrates market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Gallium Nitride Single Crystal Substrates market size and forecasts, by Wafer Size and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Gallium Nitride Single Crystal Substrates market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 Gallium Nitride Single Crystal Substrates

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 Gallium Nitride Single Crystal Substrates 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 Sumitomo Electric Device Innovations (SEDI) (SCIOCS), Mitsubishi Chemical, Suzhou Nanowin Science and Technology, Sanan Optoelectronics, Sino Nitride Semiconductor, Eta Research Ltd, WAFER WORKS, Toyoda Gosei, Okmetic, Kyma Technologies, etc.

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

Market Segmentation

Gallium Nitride Single Crystal Substrates market is split by Wafer Size and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Wafer 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 Wafer Size

2 Inches

4 Inches

Other

Market segment by Application

LED

Laser Diodes

Power Electronic Devices

Others

Major players covered

Sumitomo Electric Device Innovations (SEDI) (SCIOCS)

Mitsubishi Chemical

Suzhou Nanowin Science and Technology

Sanan Optoelectronics

Sino Nitride Semiconductor

Eta Research Ltd

WAFER WORKS

Toyoda Gosei

Okmetic

Kyma Technologies

BTOZ

Goetsu Semiconductor Wuxi

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 Gallium Nitride Single Crystal Substrates product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gallium Nitride Single Crystal Substrates, with price, sales quantity, revenue, and global market share of Gallium Nitride Single Crystal Substrates from 2020 to 2025.

Chapter 3, the Gallium Nitride Single Crystal Substrates competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gallium Nitride Single Crystal Substrates 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 Wafer Size and by Application, with sales market share and growth rate by Wafer 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 Gallium Nitride Single Crystal Substrates market forecast, by regions, by Wafer 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 Gallium Nitride Single Crystal Substrates.

Chapter 14 and 15, to describe Gallium Nitride Single Crystal Substrates sales channel, distributors, customers, research findings and conclusion.

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