

Global GaN Free-standing Single Crystal Substrate Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/GEA95E06FB4EEN.html>

Date: March 2026

Pages: 146

Price: US\$ 2,980.00 (Single User License)

ID: GEA95E06FB4EEN

Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on GaN Free-standing Single Crystal Substrate competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. The GaN free-standing single crystal substrate is a material used to prepare high-performance optoelectronic devices. It is composed of high-purity gallium nitride material without external substrate support. GaN Free-standing Single Crystal Substrate is an independent GaN (GaN) single crystal substrate prepared by homoepitaxial growth technology, without relying on sapphire, silicon carbide and other heterogeneous substrates for support. Its core features are low defect density, high thermal conductivity, and high breakdown voltage, and it is suitable for high-performance optoelectronics (LED/LD), power electronics, high-frequency electronics and other fields. GaN Free-standing Single Crystal Substrate is a fundamental material for the development of next-generation electronic and optoelectronic devices, offering significant advantages over traditional substrates such as sapphire, silicon carbide (SiC), and silicon. These substrates are made entirely of GaN crystals, eliminating the lattice constant and thermal expansion coefficient mismatch issues common in heteroepitaxial growth on foreign substrates. This consistency significantly reduces defect density, especially threading dislocations, which is critical for achieving high performance and high reliability of GaN-based devices. The demand for GaN Free-standing Single Crystal Substrate is mainly due to its key role in high-power and high-frequency applications, such as RF power amplifiers, high electron mobility transistors (HEMTs), power converters, and laser diodes, which require excellent thermal management and electrical performance. From a classification perspective, 2-inch wafers dominate the market with their higher production maturity and lower cost, with a market share of nearly 84.13% in 2024. 4-inch wafers are gradually being

commercialized, especially in the field of high-power and high-frequency electronics, but their yield and cost-effectiveness still need to be further optimized. At the same time, leading global and Chinese companies are actively developing 6-inch self-supporting GaN substrates, aiming to expand their scale in next-generation power electronics and photonic applications. Once technical challenges such as defect density and scalability are overcome, these larger substrates are expected to release economies of scale and enable more efficient GaN device manufacturing. From an application perspective, gallium nitride self-supporting single crystal substrates are mainly used in optoelectronics (including blue/violet/green laser diodes and LEDs), high-frequency radio frequency electronics (such as base station components and satellite communications), and power electronics (such as electric vehicle inverters and industrial power supplies). Among them, optoelectronic applications currently account for 70.06% due to their strict requirements for low dislocation density and high optical performance - and self-supporting GaN substrates have significant advantages over heteroepitaxial solutions in these fields. As GaN power devices further penetrate into electric vehicles, renewable energy and consumer electronics, demand for large-diameter, high-quality self-supporting GaN substrates is expected to continue to grow, driving the industry towards the commercialization of 4-inch and 6-inch wafers. However, the manufacture of gallium nitride self-supporting single crystal substrates faces technical difficulties and high cost challenges. Current production methods include hydride vapor phase epitaxy (HVPE), ammonothermal growth, and sodium flux method. Among them, HVPE technology is still the most commercialized and widely adopted technology due to its high growth rate and scalability.

The global GaN Free-standing Single Crystal Substrate market size was estimated at USD 169.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 13.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global GaN Free-standing Single Crystal Substrate market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global GaN Free-standing Single Crystal Substrate market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the GaN Free-standing Single Crystal Substrate market.

Global GaN Free-standing Single Crystal Substrate Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Sumitomo Chemical (SCIOCS)
Mitsubishi Chemical
Sumitomo Electric Industries
Suzhou Nanowin Science and Technology
Eta Research Ltd.
Sino Nitride Semiconductor Technology
PAM XIAMEN
Goetsu Semiconductor
Homray Material Technology (HMT)
Kyma Technologies

Market Segmentation (by Type)

2 Inch
4 Inch
6 Inch

Market Segmentation (by Application)

Optoelectronics
Power Electronics
High-Frequency Electronics
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the GaN Free-standing Single Crystal Substrate Market
Overview of the regional outlook of the GaN Free-standing Single Crystal Substrate Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the GaN Free-standing Single Crystal Substrate Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of GaN Free-standing Single Crystal Substrate, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail,

including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of GaN Free-standing Single Crystal Substrate
- 1.2 Key Market Segments
 - 1.2.1 GaN Free-standing Single Crystal Substrate Segment by Type
 - 1.2.2 GaN Free-standing Single Crystal Substrate Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global GaN Free-standing Single Crystal Substrate Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global GaN Free-standing Single Crystal Substrate Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global GaN Free-standing Single Crystal Substrate Product Life Cycle
- 3.3 Global GaN Free-standing Single Crystal Substrate Sales by Manufacturers (2020-2025)
- 3.4 Global GaN Free-standing Single Crystal Substrate Revenue Market Share by Manufacturers (2020-2025)
- 3.5 GaN Free-standing Single Crystal Substrate Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global GaN Free-standing Single Crystal Substrate Average Price by Manufacturers (2020-2025)

- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 GaN Free-standing Single Crystal Substrate Market Competitive Situation and Trends
 - 3.8.1 GaN Free-standing Single Crystal Substrate Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest GaN Free-standing Single Crystal Substrate Players
- Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE INDUSTRY CHAIN ANALYSIS

- 4.1 GaN Free-standing Single Crystal Substrate Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global GaN Free-standing Single Crystal Substrate Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to GaN Free-standing Single Crystal Substrate Market
- 5.7 ESG Ratings of Leading Companies

6 GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global GaN Free-standing Single Crystal Substrate Sales Market Share by Type (2020-2025)
- 6.3 Global GaN Free-standing Single Crystal Substrate Market Size by Type (2020-2025)
- 6.4 Global GaN Free-standing Single Crystal Substrate Price by Type (2020-2025)

7 GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global GaN Free-standing Single Crystal Substrate Market Sales by Application (2020-2025)
- 7.3 Global GaN Free-standing Single Crystal Substrate Market Size (M USD) by Application (2020-2025)
- 7.4 Global GaN Free-standing Single Crystal Substrate Sales Growth Rate by Application (2020-2025)

8 GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE MARKET SALES BY REGION

- 8.1 Global GaN Free-standing Single Crystal Substrate Sales by Region
 - 8.1.1 Global GaN Free-standing Single Crystal Substrate Sales by Region
 - 8.1.2 Global GaN Free-standing Single Crystal Substrate Sales Market Share by Region
- 8.2 Global GaN Free-standing Single Crystal Substrate Market Size by Region
 - 8.2.1 Global GaN Free-standing Single Crystal Substrate Market Size by Region
 - 8.2.2 Global GaN Free-standing Single Crystal Substrate Market Size by Region
- 8.3 North America
 - 8.3.1 North America GaN Free-standing Single Crystal Substrate Sales by Country
 - 8.3.2 North America GaN Free-standing Single Crystal Substrate Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview

8.4 Europe

- 8.4.1 Europe GaN Free-standing Single Crystal Substrate Sales by Country
- 8.4.2 Europe GaN Free-standing Single Crystal Substrate Market Size by Country
- 8.4.3 Germany Market Overview
- 8.4.4 France Market Overview
- 8.4.5 U.K. Market Overview
- 8.4.6 Italy Market Overview
- 8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific GaN Free-standing Single Crystal Substrate Sales by Region
- 8.5.2 Asia Pacific GaN Free-standing Single Crystal Substrate Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview

8.6 South America

- 8.6.1 South America GaN Free-standing Single Crystal Substrate Sales by Country
- 8.6.2 South America GaN Free-standing Single Crystal Substrate Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa GaN Free-standing Single Crystal Substrate Sales by Region
- 8.7.2 Middle East and Africa GaN Free-standing Single Crystal Substrate Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE MARKET PRODUCTION BY REGION

9.1 Global Production of GaN Free-standing Single Crystal Substrate by Region(2020-2025)

9.2 Global GaN Free-standing Single Crystal Substrate Revenue Market Share by Region (2020-2025)

9.3 Global GaN Free-standing Single Crystal Substrate Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America GaN Free-standing Single Crystal Substrate Production

9.4.1 North America GaN Free-standing Single Crystal Substrate Production Growth Rate (2020-2025)

9.4.2 North America GaN Free-standing Single Crystal Substrate Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe GaN Free-standing Single Crystal Substrate Production

9.5.1 Europe GaN Free-standing Single Crystal Substrate Production Growth Rate (2020-2025)

9.5.2 Europe GaN Free-standing Single Crystal Substrate Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan GaN Free-standing Single Crystal Substrate Production (2020-2025)

9.6.1 Japan GaN Free-standing Single Crystal Substrate Production Growth Rate (2020-2025)

9.6.2 Japan GaN Free-standing Single Crystal Substrate Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China GaN Free-standing Single Crystal Substrate Production (2020-2025)

9.7.1 China GaN Free-standing Single Crystal Substrate Production Growth Rate (2020-2025)

9.7.2 China GaN Free-standing Single Crystal Substrate Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Sumitomo Chemical (SCIOCS)

10.1.1 Sumitomo Chemical (SCIOCS) Basic Information

10.1.2 Sumitomo Chemical (SCIOCS) GaN Free-standing Single Crystal Substrate Product Overview

10.1.3 Sumitomo Chemical (SCIOCS) GaN Free-standing Single Crystal Substrate Product Market Performance

10.1.4 Sumitomo Chemical (SCIOCS) Business Overview

10.1.5 Sumitomo Chemical (SCIOCS) SWOT Analysis

10.1.6 Sumitomo Chemical (SCIOCS) Recent Developments

10.2 Mitsubishi Chemical

10.2.1 Mitsubishi Chemical Basic Information

10.2.2 Mitsubishi Chemical GaN Free-standing Single Crystal Substrate Product

Overview

10.2.3 Mitsubishi Chemical GaN Free-standing Single Crystal Substrate Product

Market Performance

10.2.4 Mitsubishi Chemical Business Overview

10.2.5 Mitsubishi Chemical SWOT Analysis

10.2.6 Mitsubishi Chemical Recent Developments

10.3 Sumitomo Electric Industries

10.3.1 Sumitomo Electric Industries Basic Information

10.3.2 Sumitomo Electric Industries GaN Free-standing Single Crystal Substrate

Product Overview

10.3.3 Sumitomo Electric Industries GaN Free-standing Single Crystal Substrate

Product Market Performance

10.3.4 Sumitomo Electric Industries Business Overview

10.3.5 Sumitomo Electric Industries SWOT Analysis

10.3.6 Sumitomo Electric Industries Recent Developments

10.4 Suzhou Nanowin Science and Technology

10.4.1 Suzhou Nanowin Science and Technology Basic Information

10.4.2 Suzhou Nanowin Science and Technology GaN Free-standing Single Crystal

Substrate Product Overview

10.4.3 Suzhou Nanowin Science and Technology GaN Free-standing Single Crystal

Substrate Product Market Performance

10.4.4 Suzhou Nanowin Science and Technology Business Overview

10.4.5 Suzhou Nanowin Science and Technology Recent Developments

10.5 Eta Research Ltd.

10.5.1 Eta Research Ltd. Basic Information

10.5.2 Eta Research Ltd. GaN Free-standing Single Crystal Substrate Product

Overview

10.5.3 Eta Research Ltd. GaN Free-standing Single Crystal Substrate Product Market

Performance

10.5.4 Eta Research Ltd. Business Overview

10.5.5 Eta Research Ltd. Recent Developments

10.6 Sino Nitride Semiconductor Technology

10.6.1 Sino Nitride Semiconductor Technology Basic Information

10.6.2 Sino Nitride Semiconductor Technology GaN Free-standing Single Crystal

Substrate Product Overview

10.6.3 Sino Nitride Semiconductor Technology GaN Free-standing Single Crystal

Substrate Product Market Performance

10.6.4 Sino Nitride Semiconductor Technology Business Overview

10.6.5 Sino Nitride Semiconductor Technology Recent Developments

10.7 PAM XIAMEN

10.7.1 PAM XIAMEN Basic Information

10.7.2 PAM XIAMEN GaN Free-standing Single Crystal Substrate Product Overview

10.7.3 PAM XIAMEN GaN Free-standing Single Crystal Substrate Product Market Performance

10.7.4 PAM XIAMEN Business Overview

10.7.5 PAM XIAMEN Recent Developments

10.8 Goetsu Semiconductor

10.8.1 Goetsu Semiconductor Basic Information

10.8.2 Goetsu Semiconductor GaN Free-standing Single Crystal Substrate Product Overview

10.8.3 Goetsu Semiconductor GaN Free-standing Single Crystal Substrate Product Market Performance

10.8.4 Goetsu Semiconductor Business Overview

10.8.5 Goetsu Semiconductor Recent Developments

10.9 Homray Material Technology (HMT)

10.9.1 Homray Material Technology (HMT) Basic Information

10.9.2 Homray Material Technology (HMT) GaN Free-standing Single Crystal Substrate Product Overview

10.9.3 Homray Material Technology (HMT) GaN Free-standing Single Crystal Substrate Product Market Performance

10.9.4 Homray Material Technology (HMT) Business Overview

10.9.5 Homray Material Technology (HMT) Recent Developments

10.10 Kyma Technologies

10.10.1 Kyma Technologies Basic Information

10.10.2 Kyma Technologies GaN Free-standing Single Crystal Substrate Product Overview

10.10.3 Kyma Technologies GaN Free-standing Single Crystal Substrate Product Market Performance

10.10.4 Kyma Technologies Business Overview

10.10.5 Kyma Technologies Recent Developments

11 GAN FREE-STANDING SINGLE CRYSTAL SUBSTRATE MARKET FORECAST BY REGION

11.1 Global GaN Free-standing Single Crystal Substrate Market Size Forecast

11.2 Global GaN Free-standing Single Crystal Substrate Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe GaN Free-standing Single Crystal Substrate Market Size Forecast by

Country

11.2.3 Asia Pacific GaN Free-standing Single Crystal Substrate Market Size Forecast by Region

11.2.4 South America GaN Free-standing Single Crystal Substrate Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of GaN Free-standing Single Crystal Substrate by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global GaN Free-standing Single Crystal Substrate Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of GaN Free-standing Single Crystal Substrate by Type (2026-2035)

12.1.2 Global GaN Free-standing Single Crystal Substrate Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of GaN Free-standing Single Crystal Substrate by Type (2026-2035)

12.2 Global GaN Free-standing Single Crystal Substrate Market Forecast by Application (2026-2035)

12.2.1 Global GaN Free-standing Single Crystal Substrate Sales (K Units) Forecast by Application

12.2.2 Global GaN Free-standing Single Crystal Substrate Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global GaN Free-standing Single Crystal Substrate Market Size by Type (M USD)

Table 4. Global GaN Free-standing Single Crystal Substrate Market Size by Application

Table 5. GaN Free-standing Single Crystal Substrate Market Size Comparison by Region (M USD)

Table 6. Global GaN Free-standing Single Crystal Substrate Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global GaN Free-standing Single Crystal Substrate Sales Market Share by Manufacturers (2020-2025)

Table 8. Global GaN Free-standing Single Crystal Substrate Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global GaN Free-standing Single Crystal Substrate Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in GaN Free-standing Single Crystal Substrate as of 2025)

Table 11. Global Market GaN Free-standing Single Crystal Substrate Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global GaN Free-standing Single Crystal Substrate Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. GaN Free-standing Single Crystal Substrate Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global GaN Free-standing Single Crystal Substrate Sales by Type (K Units)

Table 27. Global GaN Free-standing Single Crystal Substrate Market Size by Type (M USD)

Table 28. Global GaN Free-standing Single Crystal Substrate Sales (K Units) by Type (2020-2025)

Table 29. Global GaN Free-standing Single Crystal Substrate Sales Market Share by Type (2020-2025)

Table 30. Global GaN Free-standing Single Crystal Substrate Market Size (M USD) by Type (2020-2025)

Table 31. Global GaN Free-standing Single Crystal Substrate Market Share by Type (2020-2025)

Table 32. Global GaN Free-standing Single Crystal Substrate Price (USD/Unit) by Type (2020-2025)

Table 33. Global GaN Free-standing Single Crystal Substrate Sales (K Units) by Application

Table 34. Global GaN Free-standing Single Crystal Substrate Market Size by Application

Table 35. Global GaN Free-standing Single Crystal Substrate Sales by Application (2020-2025) & (K Units)

Table 36. Global GaN Free-standing Single Crystal Substrate Sales Market Share by Application (2020-2025)

Table 37. Global GaN Free-standing Single Crystal Substrate Market Size by Application (2020-2025) & (M USD)

Table 38. Global GaN Free-standing Single Crystal Substrate Market Share by Application (2020-2025)

Table 39. Global GaN Free-standing Single Crystal Substrate Sales Growth Rate by Application (2020-2025)

Table 40. Global GaN Free-standing Single Crystal Substrate Sales by Region (2020-2025) & (K Units)

Table 41. Global GaN Free-standing Single Crystal Substrate Sales Market Share by Region (2020-2025)

Table 42. Global GaN Free-standing Single Crystal Substrate Market Size by Region (2020-2025) & (M USD)

Table 43. Global GaN Free-standing Single Crystal Substrate Market Size by Region (2020-2025)

Table 44. North America GaN Free-standing Single Crystal Substrate Sales by Country (2020-2025) & (K Units)

Table 45. North America GaN Free-standing Single Crystal Substrate Market Size by Country (2020-2025) & (M USD)

Table 46. Europe GaN Free-standing Single Crystal Substrate Sales by Country (2020-2025) & (K Units)

Table 47. Europe GaN Free-standing Single Crystal Substrate Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific GaN Free-standing Single Crystal Substrate Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific GaN Free-standing Single Crystal Substrate Market Size by Region (2020-2025) & (M USD)

Table 50. South America GaN Free-standing Single Crystal Substrate Sales by Country (2020-2025) & (K Units)

Table 51. South America GaN Free-standing Single Crystal Substrate Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa GaN Free-standing Single Crystal Substrate Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa GaN Free-standing Single Crystal Substrate Market Size by Region (2020-2025) & (M USD)

Table 54. Global GaN Free-standing Single Crystal Substrate Production (K Units) by Region(2020-2025)

Table 55. Global GaN Free-standing Single Crystal Substrate Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global GaN Free-standing Single Crystal Substrate Revenue Market Share by Region (2020-2025)

Table 57. Global GaN Free-standing Single Crystal Substrate Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America GaN Free-standing Single Crystal Substrate Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe GaN Free-standing Single Crystal Substrate Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan GaN Free-standing Single Crystal Substrate Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China GaN Free-standing Single Crystal Substrate Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Sumitomo Chemical (SCIOCS) Basic Information

Table 63. Sumitomo Chemical (SCIOCS) GaN Free-standing Single Crystal Substrate Product Overview

Table 64. Sumitomo Chemical (SCIOCS) GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Sumitomo Chemical (SCIOCS) Business Overview

Table 66. Sumitomo Chemical (SCIOCS) SWOT Analysis

Table 67. Sumitomo Chemical (SCIOCS) Recent Developments

Table 68. Mitsubishi Chemical Basic Information

Table 69. Mitsubishi Chemical GaN Free-standing Single Crystal Substrate Product Overview

Table 70. Mitsubishi Chemical GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Mitsubishi Chemical Business Overview

Table 72. Mitsubishi Chemical SWOT Analysis

Table 73. Mitsubishi Chemical Recent Developments

Table 74. Sumitomo Electric Industries Basic Information

Table 75. Sumitomo Electric Industries GaN Free-standing Single Crystal Substrate Product Overview

Table 76. Sumitomo Electric Industries GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Sumitomo Electric Industries Business Overview

Table 78. Sumitomo Electric Industries SWOT Analysis

Table 79. Sumitomo Electric Industries Recent Developments

Table 80. Suzhou Nanowin Science and Technology Basic Information

Table 81. Suzhou Nanowin Science and Technology GaN Free-standing Single Crystal Substrate Product Overview

Table 82. Suzhou Nanowin Science and Technology GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Suzhou Nanowin Science and Technology Business Overview

Table 84. Suzhou Nanowin Science and Technology Recent Developments

Table 85. Eta Research Ltd. Basic Information

Table 86. Eta Research Ltd. GaN Free-standing Single Crystal Substrate Product Overview

Table 87. Eta Research Ltd. GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Eta Research Ltd. Business Overview

Table 89. Eta Research Ltd. Recent Developments

Table 90. Sino Nitride Semiconductor Technology Basic Information

Table 91. Sino Nitride Semiconductor Technology GaN Free-standing Single Crystal Substrate Product Overview

Table 92. Sino Nitride Semiconductor Technology GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Sino Nitride Semiconductor Technology Business Overview

Table 94. Sino Nitride Semiconductor Technology Recent Developments
Table 95. PAM XIAMEN Basic Information
Table 96. PAM XIAMEN GaN Free-standing Single Crystal Substrate Product Overview
Table 97. PAM XIAMEN GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 98. PAM XIAMEN Business Overview
Table 99. PAM XIAMEN Recent Developments
Table 100. Goetsu Semiconductor Basic Information
Table 101. Goetsu Semiconductor GaN Free-standing Single Crystal Substrate Product Overview
Table 102. Goetsu Semiconductor GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 103. Goetsu Semiconductor Business Overview
Table 104. Goetsu Semiconductor Recent Developments
Table 105. Homray Material Technology (HMT) Basic Information
Table 106. Homray Material Technology (HMT) GaN Free-standing Single Crystal Substrate Product Overview
Table 107. Homray Material Technology (HMT) GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 108. Homray Material Technology (HMT) Business Overview
Table 109. Homray Material Technology (HMT) Recent Developments
Table 110. Kyma Technologies Basic Information
Table 111. Kyma Technologies GaN Free-standing Single Crystal Substrate Product Overview
Table 112. Kyma Technologies GaN Free-standing Single Crystal Substrate Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 113. Kyma Technologies Business Overview
Table 114. Kyma Technologies Recent Developments
Table 115. Global GaN Free-standing Single Crystal Substrate Sales Forecast by Region (2026-2035) & (K Units)
Table 116. Global GaN Free-standing Single Crystal Substrate Market Size Forecast by Region (2026-2035) & (M USD)
Table 117. North America GaN Free-standing Single Crystal Substrate Sales Forecast by Country (2026-2035) & (K Units)
Table 118. North America GaN Free-standing Single Crystal Substrate Market Size Forecast by Country (2026-2035) & (M USD)
Table 119. Europe GaN Free-standing Single Crystal Substrate Sales Forecast by Country (2026-2035) & (K Units)

Table 120. Europe GaN Free-standing Single Crystal Substrate Market Size Forecast by Country (2026-2035) & (M USD)

Table 121. Asia Pacific GaN Free-standing Single Crystal Substrate Sales Forecast by Region (2026-2035) & (K Units)

Table 122. Asia Pacific GaN Free-standing Single Crystal Substrate Market Size Forecast by Region (2026-2035) & (M USD)

Table 123. South America GaN Free-standing Single Crystal Substrate Sales Forecast by Country (2026-2035) & (K Units)

Table 124. South America GaN Free-standing Single Crystal Substrate Market Size Forecast by Country (2026-2035) & (M USD)

Table 125. Middle East and Africa GaN Free-standing Single Crystal Substrate Sales Forecast by Country (2026-2035) & (Units)

Table 126. Middle East and Africa GaN Free-standing Single Crystal Substrate Market Size Forecast by Country (2026-2035) & (M USD)

Table 127. Global GaN Free-standing Single Crystal Substrate Sales Forecast by Type (2026-2035) & (K Units)

Table 128. Global GaN Free-standing Single Crystal Substrate Market Size Forecast by Type (2026-2035) & (M USD)

Table 129. Global GaN Free-standing Single Crystal Substrate Price Forecast by Type (2026-2035) & (USD/Unit)

Table 130. Global GaN Free-standing Single Crystal Substrate Sales (K Units) Forecast by Application (2026-2035)

Table 131. Global GaN Free-standing Single Crystal Substrate Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of GaN Free-standing Single Crystal Substrate

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global GaN Free-standing Single Crystal Substrate Market Size (M USD), 2025-2035

Figure 5. Global GaN Free-standing Single Crystal Substrate Market Size (M USD) (2020-2035)

Figure 6. Global GaN Free-standing Single Crystal Substrate Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. GaN Free-standing Single Crystal Substrate Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global GaN Free-standing Single Crystal Substrate Product Life Cycle

Figure 13. GaN Free-standing Single Crystal Substrate Sales Share by Manufacturers in 2025

Figure 14. Global GaN Free-standing Single Crystal Substrate Revenue Share by Manufacturers in 2025

Figure 15. GaN Free-standing Single Crystal Substrate Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market GaN Free-standing Single Crystal Substrate Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by GaN Free-standing Single Crystal Substrate Revenue in 2025

Figure 18. Industry Chain Map of GaN Free-standing Single Crystal Substrate

Figure 19. Global GaN Free-standing Single Crystal Substrate Market PEST Analysis

Figure 20. Global GaN Free-standing Single Crystal Substrate Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global GaN Free-standing Single Crystal Substrate Market Share by Type

Figure 27. Sales Market Share of GaN Free-standing Single Crystal Substrate by Type (2020-2025)

Figure 28. Sales Market Share of GaN Free-standing Single Crystal Substrate by Type in 2025

Figure 29. Market Share of GaN Free-standing Single Crystal Substrate by Type (2020-2025)

Figure 30. Market Share of GaN Free-standing Single Crystal Substrate by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global GaN Free-standing Single Crystal Substrate Market Share by Application

Figure 33. Global GaN Free-standing Single Crystal Substrate Sales Market Share by Application (2020-2025)

Figure 34. Global GaN Free-standing Single Crystal Substrate Sales Market Share by Application in 2025

Figure 35. Global GaN Free-standing Single Crystal Substrate Market Share by Application (2020-2025)

Figure 36. Global GaN Free-standing Single Crystal Substrate Market Share by Application in 2025

Figure 37. Global GaN Free-standing Single Crystal Substrate Sales Growth Rate by Application (2020-2025)

Figure 38. Global GaN Free-standing Single Crystal Substrate Sales Market Share by Region (2020-2025)

Figure 39. Global GaN Free-standing Single Crystal Substrate Market Size by Region (2020-2025)

Figure 40. North America GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America GaN Free-standing Single Crystal Substrate Sales Market Share by Country in 2024

Figure 43. North America GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America GaN Free-standing Single Crystal Substrate Market Size by Country in 2024

Figure 45. U.S. GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. GaN Free-standing Single Crystal Substrate Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 47. Canada GaN Free-standing Single Crystal Substrate Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada GaN Free-standing Single Crystal Substrate Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico GaN Free-standing Single Crystal Substrate Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico GaN Free-standing Single Crystal Substrate Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe GaN Free-standing Single Crystal Substrate Sales Market Share by Country in 2024

Figure 53. Europe GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe GaN Free-standing Single Crystal Substrate Market Size by Country in 2024

Figure 55. Germany GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific GaN Free-standing Single Crystal Substrate Sales and Growth Rate (K Units)

Figure 66. Asia Pacific GaN Free-standing Single Crystal Substrate Sales Market Share by Region in 2024

Figure 67. Asia Pacific GaN Free-standing Single Crystal Substrate Market Size by Region in 2024

Figure 68. China GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America GaN Free-standing Single Crystal Substrate Sales and Growth Rate (K Units)

Figure 79. South America GaN Free-standing Single Crystal Substrate Sales Market Share by Country in 2024

Figure 80. South America GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (M USD)

Figure 81. South America GaN Free-standing Single Crystal Substrate Market Size by Country in 2024

Figure 82. Brazil GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina GaN Free-standing Single Crystal Substrate Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa GaN Free-standing Single Crystal Substrate Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa GaN Free-standing Single Crystal Substrate Sales Market Share by Region in 2024

Figure 90. Middle East and Africa GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa GaN Free-standing Single Crystal Substrate Market Size by Region in 2024

Figure 92. Saudi Arabia GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa GaN Free-standing Single Crystal Substrate Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa GaN Free-standing Single Crystal Substrate Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global GaN Free-standing Single Crystal Substrate Production Market Share by Region (2020-2025)

Figure 103. North America GaN Free-standing Single Crystal Substrate Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe GaN Free-standing Single Crystal Substrate Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan GaN Free-standing Single Crystal Substrate Production (K Units) Growth Rate (2020-2025)

Figure 106. China GaN Free-standing Single Crystal Substrate Production (K Units) Growth Rate (2020-2025)

Figure 107. Global GaN Free-standing Single Crystal Substrate Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global GaN Free-standing Single Crystal Substrate Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global GaN Free-standing Single Crystal Substrate Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global GaN Free-standing Single Crystal Substrate Market Share Forecast by Type (2026-2035)

Figure 111. Global GaN Free-standing Single Crystal Substrate Sales Forecast by Application (2026-2035)

Figure 112. Global GaN Free-standing Single Crystal Substrate Market Share Forecast by Application (2026-2035)

I would like to order

Product name: Global GaN Free-standing Single Crystal Substrate Market Research Report 2026(Status and Outlook)

Product link: <https://marketpublishers.com/r/GEA95E06FB4EEN.html>

Price: US\$ 2,980.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GEA95E06FB4EEN.html>