

Global SiC and GaN Power Semiconductor Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview:

Silicon carbide (SiC) and gallium nitride (GaN) are two leading-edge semiconductor materials with key benefits including higher voltage operation, wider temperature ranges and increased switching frequencies when compared to existing silicon (Si) technology. The solid benefits that SiC and GaN deliver include significant efficiency gains through miniaturization advancements, decreased cooling requirements and lower overall system costs by as much as 10-20% over traditional Si materials. A power semiconductor device is a semiconductor device used as a switch or rectifier in power electronics (for example in a switch-mode power supply). Such a device is also called a power device or, when used in an integrated circuit, a power IC.

The Global SiC and GaN Power Semiconductor Market Size was estimated at USD 952.01 million in 2023 and is projected to reach USD 2404.74 million by 2029, exhibiting a CAGR of 16.70% during the forecast period.

This report provides a deep insight into the global SiC and GaN Power Semiconductor market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the

Global SiC and GaN Power Semiconductor Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the SiC and GaN Power Semiconductor market in any manner.

Global SiC and GaN Power Semiconductor Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Infineon

CREE (Wolfspeed)

Roma Semiconductor Group

STMicroelectronics

ON Semiconductor

Mitsubishi Electric

Fuji Electric

Littelfuse

Global Power Technology Co., Ltd.

Shenzhen Basic Semiconductor Co., Ltd.

Market Segmentation (by Type)

SiC

GaN

Market Segmentation (by Application)

IT & Telecom

Aerospace & Defense

Energy & Power

Electronics

Automotive

Healthcare

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 SiC and GaN Power Semiconductor Market

Overview of the regional outlook of the SiC and GaN Power Semiconductor Market:

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 (USD Billion) 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.

Note: this report may need to undergo a final check or review and this could take about 48 hours.

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 SiC and GaN Power Semiconductor 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 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 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of SiC and GaN Power Semiconductor
- 1.2 Key Market Segments
 - 1.2.1 SiC and GaN Power Semiconductor Segment by Type
 - 1.2.2 SiC and GaN Power Semiconductor 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 SiC AND GaN POWER SEMICONDUCTOR MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global SiC and GaN Power Semiconductor Market Size (M USD) Estimates and Forecasts (2019-2030)
 - 2.1.2 Global SiC and GaN Power Semiconductor Sales Estimates and Forecasts (2019-2030)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SiC AND GaN POWER SEMICONDUCTOR MARKET COMPETITIVE LANDSCAPE

- 3.1 Global SiC and GaN Power Semiconductor Sales by Manufacturers (2019-2024)
- 3.2 Global SiC and GaN Power Semiconductor Revenue Market Share by Manufacturers (2019-2024)
- 3.3 SiC and GaN Power Semiconductor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global SiC and GaN Power Semiconductor Average Price by Manufacturers (2019-2024)
- 3.5 Manufacturers SiC and GaN Power Semiconductor Sales Sites, Area Served, Product Type
- 3.6 SiC and GaN Power Semiconductor Market Competitive Situation and Trends
 - 3.6.1 SiC and GaN Power Semiconductor Market Concentration Rate
 - 3.6.2 Global 5 and 10 Largest SiC and GaN Power Semiconductor Players Market

Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 SiC AND GaN POWER SEMICONDUCTOR INDUSTRY CHAIN ANALYSIS

4.1 SiC and GaN Power Semiconductor 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 SiC AND GaN POWER SEMICONDUCTOR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 SiC AND GaN POWER SEMICONDUCTOR MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global SiC and GaN Power Semiconductor Sales Market Share by Type (2019-2024)

6.3 Global SiC and GaN Power Semiconductor Market Size Market Share by Type (2019-2024)

6.4 Global SiC and GaN Power Semiconductor Price by Type (2019-2024)

7 SiC AND GaN POWER SEMICONDUCTOR MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global SiC and GaN Power Semiconductor Market Sales by Application (2019-2024)

7.3 Global SiC and GaN Power Semiconductor Market Size (M USD) by Application (2019-2024)

7.4 Global SiC and GaN Power Semiconductor Sales Growth Rate by Application (2019-2024)

8 SiC AND GAN POWER SEMICONDUCTOR MARKET SEGMENTATION BY REGION

8.1 Global SiC and GaN Power Semiconductor Sales by Region

8.1.1 Global SiC and GaN Power Semiconductor Sales by Region

8.1.2 Global SiC and GaN Power Semiconductor Sales Market Share by Region

8.2 North America

8.2.1 North America SiC and GaN Power Semiconductor Sales by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe SiC and GaN Power Semiconductor Sales by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Russia

8.4 Asia Pacific

8.4.1 Asia Pacific SiC and GaN Power Semiconductor Sales by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America SiC and GaN Power Semiconductor Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa SiC and GaN Power Semiconductor Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

- 8.6.4 Egypt
- 8.6.5 Nigeria
- 8.6.6 South Africa

9 KEY COMPANIES PROFILE

9.1 Infineon

- 9.1.1 Infineon SiC and GaN Power Semiconductor Basic Information
- 9.1.2 Infineon SiC and GaN Power Semiconductor Product Overview
- 9.1.3 Infineon SiC and GaN Power Semiconductor Product Market Performance
- 9.1.4 Infineon Business Overview
- 9.1.5 Infineon SiC and GaN Power Semiconductor SWOT Analysis
- 9.1.6 Infineon Recent Developments

9.2 CREE (Wolfspeed)

- 9.2.1 CREE (Wolfspeed) SiC and GaN Power Semiconductor Basic Information
- 9.2.2 CREE (Wolfspeed) SiC and GaN Power Semiconductor Product Overview
- 9.2.3 CREE (Wolfspeed) SiC and GaN Power Semiconductor Product Market Performance
- 9.2.4 CREE (Wolfspeed) Business Overview
- 9.2.5 CREE (Wolfspeed) SiC and GaN Power Semiconductor SWOT Analysis
- 9.2.6 CREE (Wolfspeed) Recent Developments

9.3 Roma Semiconductor Group

- 9.3.1 Roma Semiconductor Group SiC and GaN Power Semiconductor Basic Information
- 9.3.2 Roma Semiconductor Group SiC and GaN Power Semiconductor Product Overview
- 9.3.3 Roma Semiconductor Group SiC and GaN Power Semiconductor Product Market Performance
- 9.3.4 Roma Semiconductor Group SiC and GaN Power Semiconductor SWOT Analysis
- 9.3.5 Roma Semiconductor Group Business Overview
- 9.3.6 Roma Semiconductor Group Recent Developments

9.4 STMicroelectronics

- 9.4.1 STMicroelectronics SiC and GaN Power Semiconductor Basic Information
- 9.4.2 STMicroelectronics SiC and GaN Power Semiconductor Product Overview
- 9.4.3 STMicroelectronics SiC and GaN Power Semiconductor Product Market Performance
- 9.4.4 STMicroelectronics Business Overview
- 9.4.5 STMicroelectronics Recent Developments

9.5 ON Semiconductor

9.5.1 ON Semiconductor SiC and GaN Power Semiconductor Basic Information

9.5.2 ON Semiconductor SiC and GaN Power Semiconductor Product Overview

9.5.3 ON Semiconductor SiC and GaN Power Semiconductor Product Market

Performance

9.5.4 ON Semiconductor Business Overview

9.5.5 ON Semiconductor Recent Developments

9.6 Mitsubishi Electric

9.6.1 Mitsubishi Electric SiC and GaN Power Semiconductor Basic Information

9.6.2 Mitsubishi Electric SiC and GaN Power Semiconductor Product Overview

9.6.3 Mitsubishi Electric SiC and GaN Power Semiconductor Product Market

Performance

9.6.4 Mitsubishi Electric Business Overview

9.6.5 Mitsubishi Electric Recent Developments

9.7 Fuji Electric

9.7.1 Fuji Electric SiC and GaN Power Semiconductor Basic Information

9.7.2 Fuji Electric SiC and GaN Power Semiconductor Product Overview

9.7.3 Fuji Electric SiC and GaN Power Semiconductor Product Market Performance

9.7.4 Fuji Electric Business Overview

9.7.5 Fuji Electric Recent Developments

9.8 Littelfuse

9.8.1 Littelfuse SiC and GaN Power Semiconductor Basic Information

9.8.2 Littelfuse SiC and GaN Power Semiconductor Product Overview

9.8.3 Littelfuse SiC and GaN Power Semiconductor Product Market Performance

9.8.4 Littelfuse Business Overview

9.8.5 Littelfuse Recent Developments

9.9 Global Power Technology Co., Ltd.

9.9.1 Global Power Technology Co., Ltd. SiC and GaN Power Semiconductor Basic Information

9.9.2 Global Power Technology Co., Ltd. SiC and GaN Power Semiconductor Product Overview

9.9.3 Global Power Technology Co., Ltd. SiC and GaN Power Semiconductor Product Market Performance

9.9.4 Global Power Technology Co., Ltd. Business Overview

9.9.5 Global Power Technology Co., Ltd. Recent Developments

9.10 Shenzhen Basic Semiconductor Co., Ltd.

9.10.1 Shenzhen Basic Semiconductor Co., Ltd. SiC and GaN Power Semiconductor Basic Information

9.10.2 Shenzhen Basic Semiconductor Co., Ltd. SiC and GaN Power Semiconductor

Product Overview

9.10.3 Shenzhen Basic Semiconductor Co., Ltd. SiC and GaN Power Semiconductor

Product Market Performance

9.10.4 Shenzhen Basic Semiconductor Co., Ltd. Business Overview

9.10.5 Shenzhen Basic Semiconductor Co., Ltd. Recent Developments

10 SiC AND GAN POWER SEMICONDUCTOR MARKET FORECAST BY REGION

10.1 Global SiC and GaN Power Semiconductor Market Size Forecast

10.2 Global SiC and GaN Power Semiconductor Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe SiC and GaN Power Semiconductor Market Size Forecast by Country

10.2.3 Asia Pacific SiC and GaN Power Semiconductor Market Size Forecast by

Region

10.2.4 South America SiC and GaN Power Semiconductor Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Consumption of SiC and GaN Power Semiconductor by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)

11.1 Global SiC and GaN Power Semiconductor Market Forecast by Type (2025-2030)

11.1.1 Global Forecasted Sales of SiC and GaN Power Semiconductor by Type (2025-2030)

11.1.2 Global SiC and GaN Power Semiconductor Market Size Forecast by Type (2025-2030)

11.1.3 Global Forecasted Price of SiC and GaN Power Semiconductor by Type (2025-2030)

11.2 Global SiC and GaN Power Semiconductor Market Forecast by Application (2025-2030)

11.2.1 Global SiC and GaN Power Semiconductor Sales (K Units) Forecast by Application

11.2.2 Global SiC and GaN Power Semiconductor Market Size (M USD) Forecast by Application (2025-2030)

12 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. SiC and GaN Power Semiconductor Market Size Comparison by Region (M USD)

Table 5. Global SiC and GaN Power Semiconductor Sales (K Units) by Manufacturers (2019-2024)

Table 6. Global SiC and GaN Power Semiconductor Sales Market Share by Manufacturers (2019-2024)

Table 7. Global SiC and GaN Power Semiconductor Revenue (M USD) by Manufacturers (2019-2024)

Table 8. Global SiC and GaN Power Semiconductor Revenue Share by Manufacturers (2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in SiC and GaN Power Semiconductor as of 2022)

Table 10. Global Market SiC and GaN Power Semiconductor Average Price (USD/Unit) of Key Manufacturers (2019-2024)

Table 11. Manufacturers SiC and GaN Power Semiconductor Sales Sites and Area Served

Table 12. Manufacturers SiC and GaN Power Semiconductor Product Type

Table 13. Global SiC and GaN Power Semiconductor Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of SiC and GaN Power Semiconductor

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. SiC and GaN Power Semiconductor Market Challenges

Table 22. Global SiC and GaN Power Semiconductor Sales by Type (K Units)

Table 23. Global SiC and GaN Power Semiconductor Market Size by Type (M USD)

Table 24. Global SiC and GaN Power Semiconductor Sales (K Units) by Type (2019-2024)

Table 25. Global SiC and GaN Power Semiconductor Sales Market Share by Type

(2019-2024)

Table 26. Global SiC and GaN Power Semiconductor Market Size (M USD) by Type (2019-2024)

Table 27. Global SiC and GaN Power Semiconductor Market Size Share by Type (2019-2024)

Table 28. Global SiC and GaN Power Semiconductor Price (USD/Unit) by Type (2019-2024)

Table 29. Global SiC and GaN Power Semiconductor Sales (K Units) by Application

Table 30. Global SiC and GaN Power Semiconductor Market Size by Application

Table 31. Global SiC and GaN Power Semiconductor Sales by Application (2019-2024) & (K Units)

Table 32. Global SiC and GaN Power Semiconductor Sales Market Share by Application (2019-2024)

Table 33. Global SiC and GaN Power Semiconductor Sales by Application (2019-2024) & (M USD)

Table 34. Global SiC and GaN Power Semiconductor Market Share by Application (2019-2024)

Table 35. Global SiC and GaN Power Semiconductor Sales Growth Rate by Application (2019-2024)

Table 36. Global SiC and GaN Power Semiconductor Sales by Region (2019-2024) & (K Units)

Table 37. Global SiC and GaN Power Semiconductor Sales Market Share by Region (2019-2024)

Table 38. North America SiC and GaN Power Semiconductor Sales by Country (2019-2024) & (K Units)

Table 39. Europe SiC and GaN Power Semiconductor Sales by Country (2019-2024) & (K Units)

Table 40. Asia Pacific SiC and GaN Power Semiconductor Sales by Region (2019-2024) & (K Units)

Table 41. South America SiC and GaN Power Semiconductor Sales by Country (2019-2024) & (K Units)

Table 42. Middle East and Africa SiC and GaN Power Semiconductor Sales by Region (2019-2024) & (K Units)

Table 43. Infineon SiC and GaN Power Semiconductor Basic Information

Table 44. Infineon SiC and GaN Power Semiconductor Product Overview

Table 45. Infineon SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 46. Infineon Business Overview

Table 47. Infineon SiC and GaN Power Semiconductor SWOT Analysis

Table 48. Infineon Recent Developments

Table 49. CREE (Wolfspeed) SiC and GaN Power Semiconductor Basic Information

Table 50. CREE (Wolfspeed) SiC and GaN Power Semiconductor Product Overview

Table 51. CREE (Wolfspeed) SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 52. CREE (Wolfspeed) Business Overview

Table 53. CREE (Wolfspeed) SiC and GaN Power Semiconductor SWOT Analysis

Table 54. CREE (Wolfspeed) Recent Developments

Table 55. Roma Semiconductor Group SiC and GaN Power Semiconductor Basic Information

Table 56. Roma Semiconductor Group SiC and GaN Power Semiconductor Product Overview

Table 57. Roma Semiconductor Group SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 58. Roma Semiconductor Group SiC and GaN Power Semiconductor SWOT Analysis

Table 59. Roma Semiconductor Group Business Overview

Table 60. Roma Semiconductor Group Recent Developments

Table 61. STMicroelectronics SiC and GaN Power Semiconductor Basic Information

Table 62. STMicroelectronics SiC and GaN Power Semiconductor Product Overview

Table 63. STMicroelectronics SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 64. STMicroelectronics Business Overview

Table 65. STMicroelectronics Recent Developments

Table 66. ON Semiconductor SiC and GaN Power Semiconductor Basic Information

Table 67. ON Semiconductor SiC and GaN Power Semiconductor Product Overview

Table 68. ON Semiconductor SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 69. ON Semiconductor Business Overview

Table 70. ON Semiconductor Recent Developments

Table 71. Mitsubishi Electric SiC and GaN Power Semiconductor Basic Information

Table 72. Mitsubishi Electric SiC and GaN Power Semiconductor Product Overview

Table 73. Mitsubishi Electric SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 74. Mitsubishi Electric Business Overview

Table 75. Mitsubishi Electric Recent Developments

Table 76. Fuji Electric SiC and GaN Power Semiconductor Basic Information

Table 77. Fuji Electric SiC and GaN Power Semiconductor Product Overview

Table 78. Fuji Electric SiC and GaN Power Semiconductor Sales (K Units), Revenue (M

USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 79. Fuji Electric Business Overview

Table 80. Fuji Electric Recent Developments

Table 81. Littelfuse SiC and GaN Power Semiconductor Basic Information

Table 82. Littelfuse SiC and GaN Power Semiconductor Product Overview

Table 83. Littelfuse SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 84. Littelfuse Business Overview

Table 85. Littelfuse Recent Developments

Table 86. Global Power Technology Co., Ltd. SiC and GaN Power Semiconductor Basic Information

Table 87. Global Power Technology Co., Ltd. SiC and GaN Power Semiconductor Product Overview

Table 88. Global Power Technology Co., Ltd. SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 89. Global Power Technology Co., Ltd. Business Overview

Table 90. Global Power Technology Co., Ltd. Recent Developments

Table 91. Shenzhen Basic Semiconductor Co., Ltd. SiC and GaN Power Semiconductor Basic Information

Table 92. Shenzhen Basic Semiconductor Co., Ltd. SiC and GaN Power Semiconductor Product Overview

Table 93. Shenzhen Basic Semiconductor Co., Ltd. SiC and GaN Power Semiconductor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 94. Shenzhen Basic Semiconductor Co., Ltd. Business Overview

Table 95. Shenzhen Basic Semiconductor Co., Ltd. Recent Developments

Table 96. Global SiC and GaN Power Semiconductor Sales Forecast by Region (2025-2030) & (K Units)

Table 97. Global SiC and GaN Power Semiconductor Market Size Forecast by Region (2025-2030) & (M USD)

Table 98. North America SiC and GaN Power Semiconductor Sales Forecast by Country (2025-2030) & (K Units)

Table 99. North America SiC and GaN Power Semiconductor Market Size Forecast by Country (2025-2030) & (M USD)

Table 100. Europe SiC and GaN Power Semiconductor Sales Forecast by Country (2025-2030) & (K Units)

Table 101. Europe SiC and GaN Power Semiconductor Market Size Forecast by Country (2025-2030) & (M USD)

Table 102. Asia Pacific SiC and GaN Power Semiconductor Sales Forecast by Region (2025-2030) & (K Units)

Table 103. Asia Pacific SiC and GaN Power Semiconductor Market Size Forecast by Region (2025-2030) & (M USD)

Table 104. South America SiC and GaN Power Semiconductor Sales Forecast by Country (2025-2030) & (K Units)

Table 105. South America SiC and GaN Power Semiconductor Market Size Forecast by Country (2025-2030) & (M USD)

Table 106. Middle East and Africa SiC and GaN Power Semiconductor Consumption Forecast by Country (2025-2030) & (Units)

Table 107. Middle East and Africa SiC and GaN Power Semiconductor Market Size Forecast by Country (2025-2030) & (M USD)

Table 108. Global SiC and GaN Power Semiconductor Sales Forecast by Type (2025-2030) & (K Units)

Table 109. Global SiC and GaN Power Semiconductor Market Size Forecast by Type (2025-2030) & (M USD)

Table 110. Global SiC and GaN Power Semiconductor Price Forecast by Type (2025-2030) & (USD/Unit)

Table 111. Global SiC and GaN Power Semiconductor Sales (K Units) Forecast by Application (2025-2030)

Table 112. Global SiC and GaN Power Semiconductor Market Size Forecast by Application (2025-2030) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of SiC and GaN Power Semiconductor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global SiC and GaN Power Semiconductor Market Size (M USD), 2019-2030
- Figure 5. Global SiC and GaN Power Semiconductor Market Size (M USD) (2019-2030)
- Figure 6. Global SiC and GaN Power Semiconductor Sales (K Units) & (2019-2030)
- 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. SiC and GaN Power Semiconductor Market Size by Country (M USD)
- Figure 11. SiC and GaN Power Semiconductor Sales Share by Manufacturers in 2023
- Figure 12. Global SiC and GaN Power Semiconductor Revenue Share by Manufacturers in 2023
- Figure 13. SiC and GaN Power Semiconductor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market SiC and GaN Power Semiconductor Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by SiC and GaN Power Semiconductor Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global SiC and GaN Power Semiconductor Market Share by Type
- Figure 18. Sales Market Share of SiC and GaN Power Semiconductor by Type (2019-2024)
- Figure 19. Sales Market Share of SiC and GaN Power Semiconductor by Type in 2023
- Figure 20. Market Size Share of SiC and GaN Power Semiconductor by Type (2019-2024)
- Figure 21. Market Size Market Share of SiC and GaN Power Semiconductor by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global SiC and GaN Power Semiconductor Market Share by Application
- Figure 24. Global SiC and GaN Power Semiconductor Sales Market Share by Application (2019-2024)
- Figure 25. Global SiC and GaN Power Semiconductor Sales Market Share by Application in 2023
- Figure 26. Global SiC and GaN Power Semiconductor Market Share by Application

(2019-2024)

Figure 27. Global SiC and GaN Power Semiconductor Market Share by Application in 2023

Figure 28. Global SiC and GaN Power Semiconductor Sales Growth Rate by Application (2019-2024)

Figure 29. Global SiC and GaN Power Semiconductor Sales Market Share by Region (2019-2024)

Figure 30. North America SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 31. North America SiC and GaN Power Semiconductor Sales Market Share by Country in 2023

Figure 32. U.S. SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada SiC and GaN Power Semiconductor Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico SiC and GaN Power Semiconductor Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe SiC and GaN Power Semiconductor Sales Market Share by Country in 2023

Figure 37. Germany SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific SiC and GaN Power Semiconductor Sales and Growth Rate (K Units)

Figure 43. Asia Pacific SiC and GaN Power Semiconductor Sales Market Share by Region in 2023

Figure 44. China SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America SiC and GaN Power Semiconductor Sales and Growth Rate (K Units)

Figure 50. South America SiC and GaN Power Semiconductor Sales Market Share by Country in 2023

Figure 51. Brazil SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa SiC and GaN Power Semiconductor Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa SiC and GaN Power Semiconductor Sales Market Share by Region in 2023

Figure 56. Saudi Arabia SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa SiC and GaN Power Semiconductor Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global SiC and GaN Power Semiconductor Sales Forecast by Volume (2019-2030) & (K Units)

Figure 62. Global SiC and GaN Power Semiconductor Market Size Forecast by Value (2019-2030) & (M USD)

Figure 63. Global SiC and GaN Power Semiconductor Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global SiC and GaN Power Semiconductor Market Share Forecast by Type (2025-2030)

Figure 65. Global SiC and GaN Power Semiconductor Sales Forecast by Application

(2025-2030)

Figure 66. Global SiC and GaN Power Semiconductor Market Share Forecast by Application (2025-2030)

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