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Global GaN Half-Bridge Power ICs Market Growth 2026-2032

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Abstracts

The global GaN Half-Bridge Power ICs market size is predicted to grow from US$ 222 million in 2025 to US$ 395 million in 2032; it is expected to grow at a CAGR of 8.7% from 2026 to 2032.

Gallium Nitride (GaN) Half-Bridge Power ICs are integrated circuits that use GaN-based transistors to form a 'half-bridge' power circuit. In a half-bridge configuration, two transistors are connected in a series arrangement, switching on and off alternately to convert electrical power efficiently. This type of IC is commonly used in high-frequency, high-efficiency power conversion applications, including AC-DC power supplies, motor drives, and power inverters.

United States market for GaN Half-Bridge Power ICs is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for GaN Half-Bridge Power ICs is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for GaN Half-Bridge Power ICs is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key GaN Half-Bridge Power ICs players cover Infineon Technologies, STMicroelectronics, Texas Instruments, Transphorm, ON Semiconductor, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?GaN Half-Bridge Power ICs Industry Forecast? looks at past sales and reviews total world GaN Half-Bridge Power

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ICs sales in 2025, providing a comprehensive analysis by region and market sector of projected GaN Half-Bridge Power ICs sales for 2026 through 2032. With GaN Half-Bridge Power ICs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world GaN Half-Bridge Power ICs industry.

This Insight Report provides a comprehensive analysis of the global GaN Half-Bridge Power ICs landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GaN Half-Bridge Power ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global GaN Half-Bridge Power ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Half-Bridge Power ICs and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global GaN Half-Bridge Power ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of GaN Half-Bridge Power ICs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Discrete Type

Multi-Chip Package Type

Segmentation by Application:

Consumer Electronics

Solar Energy

Data Centers

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Electric Vehicles

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Infineon Technologies

STMicroelectronics

Texas Instruments

Transphorm

ON Semiconductor

ROHM

Danxitech

GaNpower Semiconductor

Innoscience

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Navitas Semiconductor

Novosns

Tagore

Key Questions Addressed in this Report

What is the 10-year outlook for the global GaN Half-Bridge Power ICs market?
What factors are driving GaN Half-Bridge Power ICs market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do GaN Half-Bridge Power ICs market opportunities vary by end market size?
How does GaN Half-Bridge Power ICs break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global GaN Half-Bridge Power ICs Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for GaN Half-Bridge Power ICs by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for GaN Half-Bridge Power ICs by Country/Region, 2021, 2025 & 2032
2.2 GaN Half-Bridge Power ICs Segment by Type
  2.2.1 Discrete Type
  2.2.2 Multi-Chip Package Type
  2.2.3 GaN Half-Bridge Power ICs Sales by Type
    2.2.3.1 Global GaN Half-Bridge Power ICs Sales Market Share by Type (2021-2026)
    2.2.3.2 Global GaN Half-Bridge Power ICs Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global GaN Half-Bridge Power ICs Sale Price by Type (2021-2026)
2.3 GaN Half-Bridge Power ICs Segment by Application
  2.3.1 Consumer Electronics
  2.3.2 Solar Energy
  2.3.3 Data Centers
  2.3.4 Electric Vehicles
  2.3.5 Others
  2.3.6 GaN Half-Bridge Power ICs Sales by Application
    2.3.6.1 Global GaN Half-Bridge Power ICs Sale Market Share by Application (2021-2026)
    2.3.6.2 Global GaN Half-Bridge Power ICs Revenue and Market Share by Application

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(2021-2026)
2.3.6.3 Global GaN Half-Bridge Power ICs Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global GaN Half-Bridge Power ICs Breakdown Data by Company
3.1.1 Global GaN Half-Bridge Power ICs Annual Sales by Company (2021-2026)
3.1.2 Global GaN Half-Bridge Power ICs Sales Market Share by Company (2021-2026)
3.2 Global GaN Half-Bridge Power ICs Annual Revenue by Company (2021-2026)
3.2.1 Global GaN Half-Bridge Power ICs Revenue by Company (2021-2026)
3.2.2 Global GaN Half-Bridge Power ICs Revenue Market Share by Company (2021-2026)
3.3 Global GaN Half-Bridge Power ICs Sale Price by Company
3.4 Key Manufacturers GaN Half-Bridge Power ICs Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers GaN Half-Bridge Power ICs Product Location Distribution
3.4.2 Players GaN Half-Bridge Power ICs Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR GAN HALF-BRIDGE POWER ICS BY GEOGRAPHIC REGION

4.1 World Historic GaN Half-Bridge Power ICs Market Size by Geographic Region (2021-2026)
4.1.1 Global GaN Half-Bridge Power ICs Annual Sales by Geographic Region (2021-2026)
4.1.2 Global GaN Half-Bridge Power ICs Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic GaN Half-Bridge Power ICs Market Size by Country/Region (2021-2026)
4.2.1 Global GaN Half-Bridge Power ICs Annual Sales by Country/Region (2021-2026)
4.2.2 Global GaN Half-Bridge Power ICs Annual Revenue by Country/Region (2021-2026)
4.3 Americas GaN Half-Bridge Power ICs Sales Growth

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4.4 APAC GaN Half-Bridge Power ICs Sales Growth
4.5 Europe GaN Half-Bridge Power ICs Sales Growth
4.6 Middle East & Africa GaN Half-Bridge Power ICs Sales Growth

5 AMERICAS

5.1 Americas GaN Half-Bridge Power ICs Sales by Country
  5.1.1 Americas GaN Half-Bridge Power ICs Sales by Country (2021-2026)
  5.1.2 Americas GaN Half-Bridge Power ICs Revenue by Country (2021-2026)
5.2 Americas GaN Half-Bridge Power ICs Sales by Type (2021-2026)
5.3 Americas GaN Half-Bridge Power ICs Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC GaN Half-Bridge Power ICs Sales by Region
  6.1.1 APAC GaN Half-Bridge Power ICs Sales by Region (2021-2026)
  6.1.2 APAC GaN Half-Bridge Power ICs Revenue by Region (2021-2026)
6.2 APAC GaN Half-Bridge Power ICs Sales by Type (2021-2026)
6.3 APAC GaN Half-Bridge Power ICs Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe GaN Half-Bridge Power ICs by Country
  7.1.1 Europe GaN Half-Bridge Power ICs Sales by Country (2021-2026)
  7.1.2 Europe GaN Half-Bridge Power ICs Revenue by Country (2021-2026)
7.2 Europe GaN Half-Bridge Power ICs Sales by Type (2021-2026)
7.3 Europe GaN Half-Bridge Power ICs Sales by Application (2021-2026)
7.4 Germany

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7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa GaN Half-Bridge Power ICs by Country
  8.1.1 Middle East & Africa GaN Half-Bridge Power ICs Sales by Country (2021-2026)
  8.1.2 Middle East & Africa GaN Half-Bridge Power ICs Revenue by Country (2021-2026)
8.2 Middle East & Africa GaN Half-Bridge Power ICs Sales by Type (2021-2026)
8.3 Middle East & Africa GaN Half-Bridge Power ICs Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of GaN Half-Bridge Power ICs
10.3 Manufacturing Process Analysis of GaN Half-Bridge Power ICs
10.4 Industry Chain Structure of GaN Half-Bridge Power ICs

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 GaN Half-Bridge Power ICs Distributors
11.3 GaN Half-Bridge Power ICs Customer

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info@marketpublishers.com

12 WORLD FORECAST REVIEW FOR GAN HALF-BRIDGE POWER ICS BY GEOGRAPHIC REGION

12.1 Global GaN Half-Bridge Power ICs Market Size Forecast by Region
12.1.1 Global GaN Half-Bridge Power ICs Forecast by Region (2027-2032)
12.1.2 Global GaN Half-Bridge Power ICs Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global GaN Half-Bridge Power ICs Forecast by Type (2027-2032)
12.7 Global GaN Half-Bridge Power ICs Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Infineon Technologies
13.1.1 Infineon Technologies Company Information
13.1.2 Infineon Technologies GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.1.3 Infineon Technologies GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Infineon Technologies Main Business Overview
13.1.5 Infineon Technologies Latest Developments
13.2 STMicroelectronics
13.2.1 STMicroelectronics Company Information
13.2.2 STMicroelectronics GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.2.3 STMicroelectronics GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 STMicroelectronics Main Business Overview
13.2.5 STMicroelectronics Latest Developments
13.3 Texas Instruments
13.3.1 Texas Instruments Company Information
13.3.2 Texas Instruments GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.3.3 Texas Instruments GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

13.3.4 Texas Instruments Main Business Overview
13.3.5 Texas Instruments Latest Developments
13.4 Transphorm
13.4.1 Transphorm Company Information
13.4.2 Transphorm GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.4.3 Transphorm GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Transphorm Main Business Overview
13.4.5 Transphorm Latest Developments
13.5 ON Semiconductor
13.5.1 ON Semiconductor Company Information
13.5.2 ON Semiconductor GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.5.3 ON Semiconductor GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 ON Semiconductor Main Business Overview
13.5.5 ON Semiconductor Latest Developments
13.6 ROHM
13.6.1 ROHM Company Information
13.6.2 ROHM GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.6.3 ROHM GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 ROHM Main Business Overview
13.6.5 ROHM Latest Developments
13.7 Danxitech
13.7.1 Danxitech Company Information
13.7.2 Danxitech GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.7.3 Danxitech GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Danxitech Main Business Overview
13.7.5 Danxitech Latest Developments
13.8 GaNpower Semiconductor
13.8.1 GaNpower Semiconductor Company Information
13.8.2 GaNpower Semiconductor GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.8.3 GaNpower Semiconductor GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 GaNpower Semiconductor Main Business Overview
13.8.5 GaNpower Semiconductor Latest Developments

+357 96 030922
info@marketpublishers.com

13.9 Innoscience
13.9.1 Innoscience Company Information
13.9.2 Innoscience GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.9.3 Innoscience GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Innoscience Main Business Overview
13.9.5 Innoscience Latest Developments
13.10 Navitas Semiconductor
13.10.1 Navitas Semiconductor Company Information
13.10.2 Navitas Semiconductor GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.10.3 Navitas Semiconductor GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Navitas Semiconductor Main Business Overview
13.10.5 Navitas Semiconductor Latest Developments
13.11 Novosns
13.11.1 Novosns Company Information
13.11.2 Novosns GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.11.3 Novosns GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Novosns Main Business Overview
13.11.5 Novosns Latest Developments
13.12 Tagore
13.12.1 Tagore Company Information
13.12.2 Tagore GaN Half-Bridge Power ICs Product Portfolios and Specifications
13.12.3 Tagore GaN Half-Bridge Power ICs Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Tagore Main Business Overview
13.12.5 Tagore Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. GaN Half-Bridge Power ICs Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. GaN Half-Bridge Power ICs Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Discrete Type
Table 4. Major Players of Multi-Chip Package Type
Table 5. Global GaN Half-Bridge Power ICs Sales by Type (2021-2026) & (K Units)
Table 6. Global GaN Half-Bridge Power ICs Sales Market Share by Type (2021-2026)
Table 7. Global GaN Half-Bridge Power ICs Revenue by Type (2021-2026) & ($ million)
Table 8. Global GaN Half-Bridge Power ICs Revenue Market Share by Type (2021-2026)
Table 9. Global GaN Half-Bridge Power ICs Sale Price by Type (2021-2026) & (US$/Unit)
Table 10. Global GaN Half-Bridge Power ICs Sale by Application (2021-2026) & (K Units)
Table 11. Global GaN Half-Bridge Power ICs Sale Market Share by Application (2021-2026)
Table 12. Global GaN Half-Bridge Power ICs Revenue by Application (2021-2026) & ($ million)
Table 13. Global GaN Half-Bridge Power ICs Revenue Market Share by Application (2021-2026)
Table 14. Global GaN Half-Bridge Power ICs Sale Price by Application (2021-2026) & (US$/Unit)
Table 15. Global GaN Half-Bridge Power ICs Sales by Company (2021-2026) & (K Units)
Table 16. Global GaN Half-Bridge Power ICs Sales Market Share by Company (2021-2026)
Table 17. Global GaN Half-Bridge Power ICs Revenue by Company (2021-2026) & ($ millions)
Table 18. Global GaN Half-Bridge Power ICs Revenue Market Share by Company (2021-2026)
Table 19. Global GaN Half-Bridge Power ICs Sale Price by Company (2021-2026) & (US$/Unit)
Table 20. Key Manufacturers GaN Half-Bridge Power ICs Producing Area Distribution and Sales Area

+357 96 030922
info@marketpublishers.com

Table 21. Players GaN Half-Bridge Power ICs Products Offered
Table 22. GaN Half-Bridge Power ICs Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global GaN Half-Bridge Power ICs Sales by Geographic Region (2021-2026) & (K Units)
Table 26. Global GaN Half-Bridge Power ICs Sales Market Share Geographic Region (2021-2026)
Table 27. Global GaN Half-Bridge Power ICs Revenue by Geographic Region (2021-2026) & ($ millions)
Table 28. Global GaN Half-Bridge Power ICs Revenue Market Share by Geographic Region (2021-2026)
Table 29. Global GaN Half-Bridge Power ICs Sales by Country/Region (2021-2026) & (K Units)
Table 30. Global GaN Half-Bridge Power ICs Sales Market Share by Country/Region (2021-2026)
Table 31. Global GaN Half-Bridge Power ICs Revenue by Country/Region (2021-2026) & ($ millions)
Table 32. Global GaN Half-Bridge Power ICs Revenue Market Share by Country/Region (2021-2026)
Table 33. Americas GaN Half-Bridge Power ICs Sales by Country (2021-2026) & (K Units)
Table 34. Americas GaN Half-Bridge Power ICs Sales Market Share by Country (2021-2026)
Table 35. Americas GaN Half-Bridge Power ICs Revenue by Country (2021-2026) & ($ millions)
Table 36. Americas GaN Half-Bridge Power ICs Sales by Type (2021-2026) & (K Units)
Table 37. Americas GaN Half-Bridge Power ICs Sales by Application (2021-2026) & (K Units)
Table 38. APAC GaN Half-Bridge Power ICs Sales by Region (2021-2026) & (K Units)
Table 39. APAC GaN Half-Bridge Power ICs Sales Market Share by Region (2021-2026)
Table 40. APAC GaN Half-Bridge Power ICs Revenue by Region (2021-2026) & ($ millions)
Table 41. APAC GaN Half-Bridge Power ICs Sales by Type (2021-2026) & (K Units)
Table 42. APAC GaN Half-Bridge Power ICs Sales by Application (2021-2026) & (K Units)
Table 43. Europe GaN Half-Bridge Power ICs Sales by Country (2021-2026) & (K Units)

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info@marketpublishers.com

Table 44. Europe GaN Half-Bridge Power ICs Revenue by Country (2021-2026) & ($ millions)
Table 45. Europe GaN Half-Bridge Power ICs Sales by Type (2021-2026) & (K Units)
Table 46. Europe GaN Half-Bridge Power ICs Sales by Application (2021-2026) & (K Units)
Table 47. Middle East & Africa GaN Half-Bridge Power ICs Sales by Country (2021-2026) & (K Units)
Table 48. Middle East & Africa GaN Half-Bridge Power ICs Revenue Market Share by Country (2021-2026)
Table 49. Middle East & Africa GaN Half-Bridge Power ICs Sales by Type (2021-2026) & (K Units)
Table 50. Middle East & Africa GaN Half-Bridge Power ICs Sales by Application (2021-2026) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of GaN Half-Bridge Power ICs
Table 52. Key Market Challenges & Risks of GaN Half-Bridge Power ICs
Table 53. Key Industry Trends of GaN Half-Bridge Power ICs
Table 54. GaN Half-Bridge Power ICs Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. GaN Half-Bridge Power ICs Distributors List
Table 57. GaN Half-Bridge Power ICs Customer List
Table 58. Global GaN Half-Bridge Power ICs Sales Forecast by Region (2027-2032) & (K Units)
Table 59. Global GaN Half-Bridge Power ICs Revenue Forecast by Region (2027-2032) & ($ millions)
Table 60. Americas GaN Half-Bridge Power ICs Sales Forecast by Country (2027-2032) & (K Units)
Table 61. Americas GaN Half-Bridge Power ICs Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 62. APAC GaN Half-Bridge Power ICs Sales Forecast by Region (2027-2032) & (K Units)
Table 63. APAC GaN Half-Bridge Power ICs Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 64. Europe GaN Half-Bridge Power ICs Sales Forecast by Country (2027-2032) & (K Units)
Table 65. Europe GaN Half-Bridge Power ICs Revenue Forecast by Country (2027-2032) & ($ millions)
Table 66. Middle East & Africa GaN Half-Bridge Power ICs Sales Forecast by Country (2027-2032) & (K Units)
Table 67. Middle East & Africa GaN Half-Bridge Power ICs Revenue Forecast by

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Country (2027-2032) & ($ millions)
Table 68. Global GaN Half-Bridge Power ICs Sales Forecast by Type (2027-2032) & (K Units)
Table 69. Global GaN Half-Bridge Power ICs Revenue Forecast by Type (2027-2032) & ($ millions)
Table 70. Global GaN Half-Bridge Power ICs Sales Forecast by Application (2027-2032) & (K Units)
Table 71. Global GaN Half-Bridge Power ICs Revenue Forecast by Application (2027-2032) & ($ millions)
Table 72. Infineon Technologies Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 73. Infineon Technologies GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 74. Infineon Technologies GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 75. Infineon Technologies Main Business
Table 76. Infineon Technologies Latest Developments
Table 77. STMicroelectronics Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 78. STMicroelectronics GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 79. STMicroelectronics GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 80. STMicroelectronics Main Business
Table 81. STMicroelectronics Latest Developments
Table 82. Texas Instruments Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 83. Texas Instruments GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 84. Texas Instruments GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 85. Texas Instruments Main Business
Table 86. Texas Instruments Latest Developments
Table 87. Transphorm Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 88. Transphorm GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 89. Transphorm GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 90. Transphorm Main Business

+357 96 030922
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Table 91. Transphorm Latest Developments
Table 92. ON Semiconductor Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 93. ON Semiconductor GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 94. ON Semiconductor GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 95. ON Semiconductor Main Business
Table 96. ON Semiconductor Latest Developments
Table 97. ROHM Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 98. ROHM GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 99. ROHM GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 100. ROHM Main Business
Table 101. ROHM Latest Developments
Table 102. Danxitech Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 103. Danxitech GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 104. Danxitech GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 105. Danxitech Main Business
Table 106. Danxitech Latest Developments
Table 107. GaNpower Semiconductor Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 108. GaNpower Semiconductor GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 109. GaNpower Semiconductor GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 110. GaNpower Semiconductor Main Business
Table 111. GaNpower Semiconductor Latest Developments
Table 112. Innoscience Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 113. Innoscience GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 114. Innoscience GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 115. Innoscience Main Business
Table 116. Innoscience Latest Developments

+357 96 030922
info@marketpublishers.com

Table 117. Navitas Semiconductor Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 118. Navitas Semiconductor GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 119. Navitas Semiconductor GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 120. Navitas Semiconductor Main Business
Table 121. Navitas Semiconductor Latest Developments
Table 122. Novosns Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 123. Novosns GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 124. Novosns GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 125. Novosns Main Business
Table 126. Novosns Latest Developments
Table 127. Tagore Basic Information, GaN Half-Bridge Power ICs Manufacturing Base, Sales Area and Its Competitors
Table 128. Tagore GaN Half-Bridge Power ICs Product Portfolios and Specifications
Table 129. Tagore GaN Half-Bridge Power ICs Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 130. Tagore Main Business
Table 131. Tagore Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of GaN Half-Bridge Power ICs
Figure 2. GaN Half-Bridge Power ICs Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global GaN Half-Bridge Power ICs Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global GaN Half-Bridge Power ICs Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. GaN Half-Bridge Power ICs Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. GaN Half-Bridge Power ICs Sales Market Share by Country/Region (2025)
Figure 10. GaN Half-Bridge Power ICs Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Discrete Type
Figure 12. Product Picture of Multi-Chip Package Type
Figure 13. Global GaN Half-Bridge Power ICs Sales Market Share by Type in 2026
Figure 14. Global GaN Half-Bridge Power ICs Revenue Market Share by Type (2021-2026)
Figure 15. GaN Half-Bridge Power ICs Consumed in Consumer Electronics
Figure 16. Global GaN Half-Bridge Power ICs Market: Consumer Electronics (2021-2026) & (K Units)
Figure 17. GaN Half-Bridge Power ICs Consumed in Solar Energy
Figure 18. Global GaN Half-Bridge Power ICs Market: Solar Energy (2021-2026) & (K Units)
Figure 19. GaN Half-Bridge Power ICs Consumed in Data Centers
Figure 20. Global GaN Half-Bridge Power ICs Market: Data Centers (2021-2026) & (K Units)
Figure 21. GaN Half-Bridge Power ICs Consumed in Electric Vehicles
Figure 22. Global GaN Half-Bridge Power ICs Market: Electric Vehicles (2021-2026) & (K Units)
Figure 23. GaN Half-Bridge Power ICs Consumed in Others
Figure 24. Global GaN Half-Bridge Power ICs Market: Others (2021-2026) & (K Units)
Figure 25. Global GaN Half-Bridge Power ICs Sale Market Share by Application (2025)
Figure 26. Global GaN Half-Bridge Power ICs Revenue Market Share by Application in 2026

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Figure 27. GaN Half-Bridge Power ICs Sales by Company in 2026 (K Units)
Figure 28. Global GaN Half-Bridge Power ICs Sales Market Share by Company in 2026
Figure 29. GaN Half-Bridge Power ICs Revenue by Company in 2026 ($ millions)
Figure 30. Global GaN Half-Bridge Power ICs Revenue Market Share by Company in 2026
Figure 31. Global GaN Half-Bridge Power ICs Sales Market Share by Geographic Region (2021-2026)
Figure 32. Global GaN Half-Bridge Power ICs Revenue Market Share by Geographic Region in 2026
Figure 33. Americas GaN Half-Bridge Power ICs Sales 2021-2026 (K Units)
Figure 34. Americas GaN Half-Bridge Power ICs Revenue 2021-2026 ($ millions)
Figure 35. APAC GaN Half-Bridge Power ICs Sales 2021-2026 (K Units)
Figure 36. APAC GaN Half-Bridge Power ICs Revenue 2021-2026 ($ millions)
Figure 37. Europe GaN Half-Bridge Power ICs Sales 2021-2026 (K Units)
Figure 38. Europe GaN Half-Bridge Power ICs Revenue 2021-2026 ($ millions)
Figure 39. Middle East & Africa GaN Half-Bridge Power ICs Sales 2021-2026 (K Units)
Figure 40. Middle East & Africa GaN Half-Bridge Power ICs Revenue 2021-2026 ($ millions)
Figure 41. Americas GaN Half-Bridge Power ICs Sales Market Share by Country in 2026
Figure 42. Americas GaN Half-Bridge Power ICs Revenue Market Share by Country (2021-2026)
Figure 43. Americas GaN Half-Bridge Power ICs Sales Market Share by Type (2021-2026)
Figure 44. Americas GaN Half-Bridge Power ICs Sales Market Share by Application (2021-2026)
Figure 45. United States GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 46. Canada GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 47. Mexico GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 48. Brazil GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 49. APAC GaN Half-Bridge Power ICs Sales Market Share by Region in 2026
Figure 50. APAC GaN Half-Bridge Power ICs Revenue Market Share by Region (2021-2026)
Figure 51. APAC GaN Half-Bridge Power ICs Sales Market Share by Type (2021-2026)
Figure 52. APAC GaN Half-Bridge Power ICs Sales Market Share by Application (2021-2026)
Figure 53. China GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 54. Japan GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)

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Figure 55. South Korea GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 56. Southeast Asia GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 57. India GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 58. Australia GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 59. China Taiwan GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 60. Europe GaN Half-Bridge Power ICs Sales Market Share by Country in 2026
Figure 61. Europe GaN Half-Bridge Power ICs Revenue Market Share by Country (2021-2026)
Figure 62. Europe GaN Half-Bridge Power ICs Sales Market Share by Type (2021-2026)
Figure 63. Europe GaN Half-Bridge Power ICs Sales Market Share by Application (2021-2026)
Figure 64. Germany GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 65. France GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 66. UK GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 67. Italy GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 68. Russia GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 69. Middle East & Africa GaN Half-Bridge Power ICs Sales Market Share by Country (2021-2026)
Figure 70. Middle East & Africa GaN Half-Bridge Power ICs Sales Market Share by Type (2021-2026)
Figure 71. Middle East & Africa GaN Half-Bridge Power ICs Sales Market Share by Application (2021-2026)
Figure 72. Egypt GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 73. South Africa GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 74. Israel GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 75. Turkey GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 76. GCC Countries GaN Half-Bridge Power ICs Revenue Growth 2021-2026 ($ millions)
Figure 77. Manufacturing Cost Structure Analysis of GaN Half-Bridge Power ICs in 2026
Figure 78. Manufacturing Process Analysis of GaN Half-Bridge Power ICs
Figure 79. Industry Chain Structure of GaN Half-Bridge Power ICs
Figure 80. Channels of Distribution

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Figure 81. Global GaN Half-Bridge Power ICs Sales Market Forecast by Region (2027-2032)
Figure 82. Global GaN Half-Bridge Power ICs Revenue Market Share Forecast by Region (2027-2032)
Figure 83. Global GaN Half-Bridge Power ICs Sales Market Share Forecast by Type (2027-2032)
Figure 84. Global GaN Half-Bridge Power ICs Revenue Market Share Forecast by Type (2027-2032)
Figure 85. Global GaN Half-Bridge Power ICs Sales Market Share Forecast by Application (2027-2032)
Figure 86. Global GaN Half-Bridge Power ICs Revenue Market Share Forecast by Application (2027-2032)

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