

Global GaN Transistor Market Growth 2025-2031

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Abstracts

The global GaN Transistor market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of % from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Gallium nitride (GaN) is a binary III/V direct bandgap semiconductor commonly used in light-emitting diodes since the 1990s. The compound is a very hard material that has a Wurtzite crystal structure. Its wide band gap of 3.4 eV affords it special properties for applications in optoelectronic, high-power and high-frequency devices. For example, GaN is the substrate which makes violet (405 nm) laser diodes possible, without use of nonlinear optical frequency-doubling.

Its sensitivity to ionizing radiation is low (like other group III nitrides), making it a suitable material for solar cell arrays for satellites. Military and space applications could also benefit as devices have shown stability in radiation environments.

United States market for GaN Transistor is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for GaN Transistor is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for GaN Transistor is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key GaN Transistor players cover AMCOM Communications, Ampleon, Integra

Technologies, Inc, MACOM, Microchip Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “GaN Transistor Industry Forecast” looks at past sales and reviews total world GaN Transistor sales in 2024, providing a comprehensive analysis by region and market sector of projected GaN Transistor sales for 2025 through 2031. With GaN Transistor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN Transistor industry.

This Insight Report provides a comprehensive analysis of the global GaN Transistor 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 Transistor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaN Transistor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Transistor 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 Transistor.

This report presents a comprehensive overview, market shares, and growth opportunities of GaN Transistor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

GaN on SiC

GaN on Si

Segmentation by Application:

Wireless Infrastructure

Radar

Aerospace & Defence

Test & Measurement

ISM

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

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.

AMCOM Communications

Ampleon

Integra Technologies, Inc

MACOM

Microchip Technology

Mitsubishi Electric US, Inc

NXP Semiconductors

Qorvo

RFHIC

Wolfspeed, A Cree Company

Key Questions Addressed in this Report

What is the 10-year outlook for the global GaN Transistor market?

What factors are driving GaN Transistor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GaN Transistor market opportunities vary by end market size?

How does GaN Transistor break out by Type, by Application?

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 Transistor Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for GaN Transistor by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for GaN Transistor by Country/Region, 2020, 2024 & 2031
- 2.2 GaN Transistor Segment by Type
 - 2.2.1 GaN on SiC
 - 2.2.2 GaN on Si
- 2.3 GaN Transistor Sales by Type
 - 2.3.1 Global GaN Transistor Sales Market Share by Type (2020-2025)
 - 2.3.2 Global GaN Transistor Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global GaN Transistor Sale Price by Type (2020-2025)
- 2.4 GaN Transistor Segment by Application
 - 2.4.1 Wireless Infrastructure
 - 2.4.2 Radar
 - 2.4.3 Aerospace & Defence
 - 2.4.4 Test & Measurement
 - 2.4.5 ISM
- 2.5 GaN Transistor Sales by Application
 - 2.5.1 Global GaN Transistor Sale Market Share by Application (2020-2025)
 - 2.5.2 Global GaN Transistor Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global GaN Transistor Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

- 3.1 Global GaN Transistor Breakdown Data by Company
 - 3.1.1 Global GaN Transistor Annual Sales by Company (2020-2025)
 - 3.1.2 Global GaN Transistor Sales Market Share by Company (2020-2025)
- 3.2 Global GaN Transistor Annual Revenue by Company (2020-2025)
 - 3.2.1 Global GaN Transistor Revenue by Company (2020-2025)
 - 3.2.2 Global GaN Transistor Revenue Market Share by Company (2020-2025)
- 3.3 Global GaN Transistor Sale Price by Company
- 3.4 Key Manufacturers GaN Transistor Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers GaN Transistor Product Location Distribution
 - 3.4.2 Players GaN Transistor Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR GAN TRANSISTOR BY GEOGRAPHIC REGION

- 4.1 World Historic GaN Transistor Market Size by Geographic Region (2020-2025)
 - 4.1.1 Global GaN Transistor Annual Sales by Geographic Region (2020-2025)
 - 4.1.2 Global GaN Transistor Annual Revenue by Geographic Region (2020-2025)
- 4.2 World Historic GaN Transistor Market Size by Country/Region (2020-2025)
 - 4.2.1 Global GaN Transistor Annual Sales by Country/Region (2020-2025)
 - 4.2.2 Global GaN Transistor Annual Revenue by Country/Region (2020-2025)
- 4.3 Americas GaN Transistor Sales Growth
- 4.4 APAC GaN Transistor Sales Growth
- 4.5 Europe GaN Transistor Sales Growth
- 4.6 Middle East & Africa GaN Transistor Sales Growth

5 AMERICAS

- 5.1 Americas GaN Transistor Sales by Country
 - 5.1.1 Americas GaN Transistor Sales by Country (2020-2025)
 - 5.1.2 Americas GaN Transistor Revenue by Country (2020-2025)
- 5.2 Americas GaN Transistor Sales by Type (2020-2025)
- 5.3 Americas GaN Transistor Sales by Application (2020-2025)

- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC GaN Transistor Sales by Region
 - 6.1.1 APAC GaN Transistor Sales by Region (2020-2025)
 - 6.1.2 APAC GaN Transistor Revenue by Region (2020-2025)
- 6.2 APAC GaN Transistor Sales by Type (2020-2025)
- 6.3 APAC GaN Transistor Sales by Application (2020-2025)
- 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 Transistor by Country
 - 7.1.1 Europe GaN Transistor Sales by Country (2020-2025)
 - 7.1.2 Europe GaN Transistor Revenue by Country (2020-2025)
- 7.2 Europe GaN Transistor Sales by Type (2020-2025)
- 7.3 Europe GaN Transistor Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa GaN Transistor by Country
 - 8.1.1 Middle East & Africa GaN Transistor Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa GaN Transistor Revenue by Country (2020-2025)
- 8.2 Middle East & Africa GaN Transistor Sales by Type (2020-2025)

8.3 Middle East & Africa GaN Transistor Sales by Application (2020-2025)

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 Transistor

10.3 Manufacturing Process Analysis of GaN Transistor

10.4 Industry Chain Structure of GaN Transistor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 GaN Transistor Distributors

11.3 GaN Transistor Customer

12 WORLD FORECAST REVIEW FOR GAN TRANSISTOR BY GEOGRAPHIC REGION

12.1 Global GaN Transistor Market Size Forecast by Region

12.1.1 Global GaN Transistor Forecast by Region (2026-2031)

12.1.2 Global GaN Transistor Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global GaN Transistor Forecast by Type (2026-2031)

12.7 Global GaN Transistor Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 AMCOM Communications

13.1.1 AMCOM Communications Company Information

13.1.2 AMCOM Communications GaN Transistor Product Portfolios and Specifications

13.1.3 AMCOM Communications GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 AMCOM Communications Main Business Overview

13.1.5 AMCOM Communications Latest Developments

13.2 Ampleon

13.2.1 Ampleon Company Information

13.2.2 Ampleon GaN Transistor Product Portfolios and Specifications

13.2.3 Ampleon GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Ampleon Main Business Overview

13.2.5 Ampleon Latest Developments

13.3 Integra Technologies, Inc

13.3.1 Integra Technologies, Inc Company Information

13.3.2 Integra Technologies, Inc GaN Transistor Product Portfolios and Specifications

13.3.3 Integra Technologies, Inc GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Integra Technologies, Inc Main Business Overview

13.3.5 Integra Technologies, Inc Latest Developments

13.4 MACOM

13.4.1 MACOM Company Information

13.4.2 MACOM GaN Transistor Product Portfolios and Specifications

13.4.3 MACOM GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 MACOM Main Business Overview

13.4.5 MACOM Latest Developments

13.5 Microchip Technology

13.5.1 Microchip Technology Company Information

13.5.2 Microchip Technology GaN Transistor Product Portfolios and Specifications

13.5.3 Microchip Technology GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Microchip Technology Main Business Overview

13.5.5 Microchip Technology Latest Developments

13.6 Mitsubishi Electric US, Inc

13.6.1 Mitsubishi Electric US, Inc Company Information

- 13.6.2 Mitsubishi Electric US, Inc GaN Transistor Product Portfolios and Specifications
- 13.6.3 Mitsubishi Electric US, Inc GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.6.4 Mitsubishi Electric US, Inc Main Business Overview
- 13.6.5 Mitsubishi Electric US, Inc Latest Developments
- 13.7 NXP Semiconductors
 - 13.7.1 NXP Semiconductors Company Information
 - 13.7.2 NXP Semiconductors GaN Transistor Product Portfolios and Specifications
 - 13.7.3 NXP Semiconductors GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 NXP Semiconductors Main Business Overview
 - 13.7.5 NXP Semiconductors Latest Developments
- 13.8 Qorvo
 - 13.8.1 Qorvo Company Information
 - 13.8.2 Qorvo GaN Transistor Product Portfolios and Specifications
 - 13.8.3 Qorvo GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Qorvo Main Business Overview
 - 13.8.5 Qorvo Latest Developments
- 13.9 RFHIC
 - 13.9.1 RFHIC Company Information
 - 13.9.2 RFHIC GaN Transistor Product Portfolios and Specifications
 - 13.9.3 RFHIC GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 RFHIC Main Business Overview
 - 13.9.5 RFHIC Latest Developments
- 13.10 Wolfspeed, A Cree Company
 - 13.10.1 Wolfspeed, A Cree Company Company Information
 - 13.10.2 Wolfspeed, A Cree Company GaN Transistor Product Portfolios and Specifications
 - 13.10.3 Wolfspeed, A Cree Company GaN Transistor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 Wolfspeed, A Cree Company Main Business Overview
 - 13.10.5 Wolfspeed, A Cree Company Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. GaN Transistor Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. GaN Transistor Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of GaN on SiC

Table 4. Major Players of GaN on Si

Table 5. Global GaN Transistor Sales by Type (2020-2025) & (K Units)

Table 6. Global GaN Transistor Sales Market Share by Type (2020-2025)

Table 7. Global GaN Transistor Revenue by Type (2020-2025) & (\$ million)

Table 8. Global GaN Transistor Revenue Market Share by Type (2020-2025)

Table 9. Global GaN Transistor Sale Price by Type (2020-2025) & (USD/Unit)

Table 10. Global GaN Transistor Sale by Application (2020-2025) & (K Units)

Table 11. Global GaN Transistor Sale Market Share by Application (2020-2025)

Table 12. Global GaN Transistor Revenue by Application (2020-2025) & (\$ million)

Table 13. Global GaN Transistor Revenue Market Share by Application (2020-2025)

Table 14. Global GaN Transistor Sale Price by Application (2020-2025) & (USD/Unit)

Table 15. Global GaN Transistor Sales by Company (2020-2025) & (K Units)

Table 16. Global GaN Transistor Sales Market Share by Company (2020-2025)

Table 17. Global GaN Transistor Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global GaN Transistor Revenue Market Share by Company (2020-2025)

Table 19. Global GaN Transistor Sale Price by Company (2020-2025) & (USD/Unit)

Table 20. Key Manufacturers GaN Transistor Producing Area Distribution and Sales Area

Table 21. Players GaN Transistor Products Offered

Table 22. GaN Transistor Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global GaN Transistor Sales by Geographic Region (2020-2025) & (K Units)

Table 26. Global GaN Transistor Sales Market Share Geographic Region (2020-2025)

Table 27. Global GaN Transistor Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global GaN Transistor Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global GaN Transistor Sales by Country/Region (2020-2025) & (K Units)

Table 30. Global GaN Transistor Sales Market Share by Country/Region (2020-2025)

Table 31. Global GaN Transistor Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global GaN Transistor Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas GaN Transistor Sales by Country (2020-2025) & (K Units)

Table 34. Americas GaN Transistor Sales Market Share by Country (2020-2025)

Table 35. Americas GaN Transistor Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas GaN Transistor Sales by Type (2020-2025) & (K Units)

Table 37. Americas GaN Transistor Sales by Application (2020-2025) & (K Units)

Table 38. APAC GaN Transistor Sales by Region (2020-2025) & (K Units)

Table 39. APAC GaN Transistor Sales Market Share by Region (2020-2025)

Table 40. APAC GaN Transistor Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC GaN Transistor Sales by Type (2020-2025) & (K Units)

Table 42. APAC GaN Transistor Sales by Application (2020-2025) & (K Units)

Table 43. Europe GaN Transistor Sales by Country (2020-2025) & (K Units)

Table 44. Europe GaN Transistor Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe GaN Transistor Sales by Type (2020-2025) & (K Units)

Table 46. Europe GaN Transistor Sales by Application (2020-2025) & (K Units)

Table 47. Middle East & Africa GaN Transistor Sales by Country (2020-2025) & (K Units)

Table 48. Middle East & Africa GaN Transistor Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa GaN Transistor Sales by Type (2020-2025) & (K Units)

Table 50. Middle East & Africa GaN Transistor Sales by Application (2020-2025) & (K Units)

Table 51. Key Market Drivers & Growth Opportunities of GaN Transistor

Table 52. Key Market Challenges & Risks of GaN Transistor

Table 53. Key Industry Trends of GaN Transistor

Table 54. GaN Transistor Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. GaN Transistor Distributors List

Table 57. GaN Transistor Customer List

Table 58. Global GaN Transistor Sales Forecast by Region (2026-2031) & (K Units)

Table 59. Global GaN Transistor Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas GaN Transistor Sales Forecast by Country (2026-2031) & (K Units)

Table 61. Americas GaN Transistor Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC GaN Transistor Sales Forecast by Region (2026-2031) & (K Units)

Table 63. APAC GaN Transistor Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe GaN Transistor Sales Forecast by Country (2026-2031) & (K Units)

Table 65. Europe GaN Transistor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 66. Middle East & Africa GaN Transistor Sales Forecast by Country (2026-2031) & (K Units)

Table 67. Middle East & Africa GaN Transistor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global GaN Transistor Sales Forecast by Type (2026-2031) & (K Units)

Table 69. Global GaN Transistor Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global GaN Transistor Sales Forecast by Application (2026-2031) & (K Units)

Table 71. Global GaN Transistor Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 72. AMCOM Communications Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors

Table 73. AMCOM Communications GaN Transistor Product Portfolios and Specifications

Table 74. AMCOM Communications GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 75. AMCOM Communications Main Business

Table 76. AMCOM Communications Latest Developments

Table 77. Ampleon Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors

Table 78. Ampleon GaN Transistor Product Portfolios and Specifications

Table 79. Ampleon GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 80. Ampleon Main Business

Table 81. Ampleon Latest Developments

Table 82. Integra Technologies, Inc Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors

Table 83. Integra Technologies, Inc GaN Transistor Product Portfolios and Specifications

Table 84. Integra Technologies, Inc GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 85. Integra Technologies, Inc Main Business

Table 86. Integra Technologies, Inc Latest Developments

Table 87. MACOM Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors

- Table 88. MACOM GaN Transistor Product Portfolios and Specifications
- Table 89. MACOM GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 90. MACOM Main Business
- Table 91. MACOM Latest Developments
- Table 92. Microchip Technology Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors
- Table 93. Microchip Technology GaN Transistor Product Portfolios and Specifications
- Table 94. Microchip Technology GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 95. Microchip Technology Main Business
- Table 96. Microchip Technology Latest Developments
- Table 97. Mitsubishi Electric US, Inc Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors
- Table 98. Mitsubishi Electric US, Inc GaN Transistor Product Portfolios and Specifications
- Table 99. Mitsubishi Electric US, Inc GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 100. Mitsubishi Electric US, Inc Main Business
- Table 101. Mitsubishi Electric US, Inc Latest Developments
- Table 102. NXP Semiconductors Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors
- Table 103. NXP Semiconductors GaN Transistor Product Portfolios and Specifications
- Table 104. NXP Semiconductors GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 105. NXP Semiconductors Main Business
- Table 106. NXP Semiconductors Latest Developments
- Table 107. Qorvo Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors
- Table 108. Qorvo GaN Transistor Product Portfolios and Specifications
- Table 109. Qorvo GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 110. Qorvo Main Business
- Table 111. Qorvo Latest Developments
- Table 112. RFHIC Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors
- Table 113. RFHIC GaN Transistor Product Portfolios and Specifications
- Table 114. RFHIC GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 115. RFHIC Main Business

Table 116. RFHIC Latest Developments

Table 117. Wolfspeed, A Cree Company Basic Information, GaN Transistor Manufacturing Base, Sales Area and Its Competitors

Table 118. Wolfspeed, A Cree Company GaN Transistor Product Portfolios and Specifications

Table 119. Wolfspeed, A Cree Company GaN Transistor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 120. Wolfspeed, A Cree Company Main Business

Table 121. Wolfspeed, A Cree Company Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of GaN Transistor
- Figure 2. GaN Transistor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global GaN Transistor Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global GaN Transistor Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. GaN Transistor Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. GaN Transistor Sales Market Share by Country/Region (2024)
- Figure 10. GaN Transistor Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of GaN on SiC
- Figure 12. Product Picture of GaN on Si
- Figure 13. Global GaN Transistor Sales Market Share by Type in 2025
- Figure 14. Global GaN Transistor Revenue Market Share by Type (2020-2025)
- Figure 15. GaN Transistor Consumed in Wireless Infrastructure
- Figure 16. Global GaN Transistor Market: Wireless Infrastructure (2020-2025) & (K Units)
- Figure 17. GaN Transistor Consumed in Radar
- Figure 18. Global GaN Transistor Market: Radar (2020-2025) & (K Units)
- Figure 19. GaN Transistor Consumed in Aerospace & Defence
- Figure 20. Global GaN Transistor Market: Aerospace & Defence (2020-2025) & (K Units)
- Figure 21. GaN Transistor Consumed in Test & Measurement
- Figure 22. Global GaN Transistor Market: Test & Measurement (2020-2025) & (K Units)
- Figure 23. GaN Transistor Consumed in ISM
- Figure 24. Global GaN Transistor Market: ISM (2020-2025) & (K Units)
- Figure 25. Global GaN Transistor Sale Market Share by Application (2024)
- Figure 26. Global GaN Transistor Revenue Market Share by Application in 2025
- Figure 27. GaN Transistor Sales by Company in 2025 (K Units)
- Figure 28. Global GaN Transistor Sales Market Share by Company in 2025
- Figure 29. GaN Transistor Revenue by Company in 2025 (\$ millions)
- Figure 30. Global GaN Transistor Revenue Market Share by Company in 2025
- Figure 31. Global GaN Transistor Sales Market Share by Geographic Region (2020-2025)

Figure 32. Global GaN Transistor Revenue Market Share by Geographic Region in 2025

Figure 33. Americas GaN Transistor Sales 2020-2025 (K Units)

Figure 34. Americas GaN Transistor Revenue 2020-2025 (\$ millions)

Figure 35. APAC GaN Transistor Sales 2020-2025 (K Units)

Figure 36. APAC GaN Transistor Revenue 2020-2025 (\$ millions)

Figure 37. Europe GaN Transistor Sales 2020-2025 (K Units)

Figure 38. Europe GaN Transistor Revenue 2020-2025 (\$ millions)

Figure 39. Middle East & Africa GaN Transistor Sales 2020-2025 (K Units)

Figure 40. Middle East & Africa GaN Transistor Revenue 2020-2025 (\$ millions)

Figure 41. Americas GaN Transistor Sales Market Share by Country in 2025

Figure 42. Americas GaN Transistor Revenue Market Share by Country (2020-2025)

Figure 43. Americas GaN Transistor Sales Market Share by Type (2020-2025)

Figure 44. Americas GaN Transistor Sales Market Share by Application (2020-2025)

Figure 45. United States GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 46. Canada GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 47. Mexico GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 48. Brazil GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 49. APAC GaN Transistor Sales Market Share by Region in 2025

Figure 50. APAC GaN Transistor Revenue Market Share by Region (2020-2025)

Figure 51. APAC GaN Transistor Sales Market Share by Type (2020-2025)

Figure 52. APAC GaN Transistor Sales Market Share by Application (2020-2025)

Figure 53. China GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 54. Japan GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 55. South Korea GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 56. Southeast Asia GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 57. India GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 58. Australia GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 59. China Taiwan GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 60. Europe GaN Transistor Sales Market Share by Country in 2025

Figure 61. Europe GaN Transistor Revenue Market Share by Country (2020-2025)

Figure 62. Europe GaN Transistor Sales Market Share by Type (2020-2025)

Figure 63. Europe GaN Transistor Sales Market Share by Application (2020-2025)

Figure 64. Germany GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 65. France GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 66. UK GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 67. Italy GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 68. Russia GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 69. Middle East & Africa GaN Transistor Sales Market Share by Country

(2020-2025)

Figure 70. Middle East & Africa GaN Transistor Sales Market Share by Type

(2020-2025)

Figure 71. Middle East & Africa GaN Transistor Sales Market Share by Application

(2020-2025)

Figure 72. Egypt GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 73. South Africa GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 74. Israel GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 75. Turkey GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 76. GCC Countries GaN Transistor Revenue Growth 2020-2025 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of GaN Transistor in 2025

Figure 78. Manufacturing Process Analysis of GaN Transistor

Figure 79. Industry Chain Structure of GaN Transistor

Figure 80. Channels of Distribution

Figure 81. Global GaN Transistor Sales Market Forecast by Region (2026-2031)

Figure 82. Global GaN Transistor Revenue Market Share Forecast by Region

(2026-2031)

Figure 83. Global GaN Transistor Sales Market Share Forecast by Type (2026-2031)

Figure 84. Global GaN Transistor Revenue Market Share Forecast by Type

(2026-2031)

Figure 85. Global GaN Transistor Sales Market Share Forecast by Application

(2026-2031)

Figure 86. Global GaN Transistor Revenue Market Share Forecast by Application

(2026-2031)

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