

# Global Depletion-Mode GaN HEMT Market Research Report 2024(Status and Outlook)

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## Abstracts

### Report Overview

Depletion-Mode GaN HEMT (High Electron Mobility Transistor) is a type of GaN transistor that operates in the depletion-mode, which means it is normally OFF and needs a negative voltage bias to turn ON the channel and allow current flow. In contrast to the normally-on (enhancement-mode) GaN HEMTs, which are naturally conducting without any gate bias, depletion-mode GaN HEMTs require a gate voltage to control the conductive channel. By applying a negative voltage to the gate electrode, the depletion-mode GaN HEMT creates a depletion region within the transistor channel, inhibiting current flow.

This report provides a deep insight into the global Depletion-Mode GaN HEMT 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, 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 Depletion-Mode GaN HEMT 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 Depletion-Mode GaN HEMT market in any manner.

## Global Depletion-Mode GaN HEMT 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 Technologies AG

Panasonic Corporation

Navitas Semiconductor

Efficient Power Conversion (EPC)

Texas Instruments Inc

Microchip Technology Inc

Mitsubishi Electric Corporation

Qorvo Inc

Sumitomo Electric Industries

GaN Systems Inc

Wolfspeed

Transphorm Inc

MACOM Technology Solutions

Soitec Belgian NV

Market Segmentation (by Type)

Single-gate HEMTs

Dual-gate HEMTs

Multi-gate HEMTs

Others

Market Segmentation (by Application)

Automotive

Renewable Energy

Telecommunications

Aerospace and Defense

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 Depletion-Mode GaN HEMT Market
- Overview of the regional outlook of the Depletion-Mode GaN HEMT 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.

## 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

Depletion-Mode GaN HEMT 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 Depletion-Mode GaN HEMT

1.2 Key Market Segments

1.2.1 Depletion-Mode GaN HEMT Segment by Type

1.2.2 Depletion-Mode GaN HEMT 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 DEPLETION-MODE GAN HEMT MARKET OVERVIEW**

2.1 Global Market Overview

2.1.1 Global Depletion-Mode GaN HEMT Market Size (M USD) Estimates and Forecasts (2019-2030)

2.1.2 Global Depletion-Mode GaN HEMT Sales Estimates and Forecasts (2019-2030)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

### **3 DEPLETION-MODE GAN HEMT MARKET COMPETITIVE LANDSCAPE**

3.1 Global Depletion-Mode GaN HEMT Sales by Manufacturers (2019-2024)

3.2 Global Depletion-Mode GaN HEMT Revenue Market Share by Manufacturers (2019-2024)

3.3 Depletion-Mode GaN HEMT Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global Depletion-Mode GaN HEMT Average Price by Manufacturers (2019-2024)

3.5 Manufacturers Depletion-Mode GaN HEMT Sales Sites, Area Served, Product Type

3.6 Depletion-Mode GaN HEMT Market Competitive Situation and Trends

3.6.1 Depletion-Mode GaN HEMT Market Concentration Rate

3.6.2 Global 5 and 10 Largest Depletion-Mode GaN HEMT Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

## **4 DEPLETION-MODE GAN HEMT INDUSTRY CHAIN ANALYSIS**

- 4.1 Depletion-Mode GaN HEMT 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 DEPLETION-MODE GAN HEMT 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 DEPLETION-MODE GAN HEMT MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Depletion-Mode GaN HEMT Sales Market Share by Type (2019-2024)
- 6.3 Global Depletion-Mode GaN HEMT Market Size Market Share by Type (2019-2024)
- 6.4 Global Depletion-Mode GaN HEMT Price by Type (2019-2024)

## **7 DEPLETION-MODE GAN HEMT MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Depletion-Mode GaN HEMT Market Sales by Application (2019-2024)
- 7.3 Global Depletion-Mode GaN HEMT Market Size (M USD) by Application (2019-2024)
- 7.4 Global Depletion-Mode GaN HEMT Sales Growth Rate by Application (2019-2024)

## **8 DEPLETION-MODE GAN HEMT MARKET SEGMENTATION BY REGION**

- 8.1 Global Depletion-Mode GaN HEMT Sales by Region

- 8.1.1 Global Depletion-Mode GaN HEMT Sales by Region
- 8.1.2 Global Depletion-Mode GaN HEMT Sales Market Share by Region
- 8.2 North America
  - 8.2.1 North America Depletion-Mode GaN HEMT Sales by Country
  - 8.2.2 U.S.
  - 8.2.3 Canada
  - 8.2.4 Mexico
- 8.3 Europe
  - 8.3.1 Europe Depletion-Mode GaN HEMT 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 Depletion-Mode GaN HEMT 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 Depletion-Mode GaN HEMT 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 Depletion-Mode GaN HEMT 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 Technologies AG
  - 9.1.1 Infineon Technologies AG Depletion-Mode GaN HEMT Basic Information
  - 9.1.2 Infineon Technologies AG Depletion-Mode GaN HEMT Product Overview

- 9.1.3 Infineon Technologies AG Depletion-Mode GaN HEMT Product Market Performance
- 9.1.4 Infineon Technologies AG Business Overview
- 9.1.5 Infineon Technologies AG Depletion-Mode GaN HEMT SWOT Analysis
- 9.1.6 Infineon Technologies AG Recent Developments
- 9.2 Panasonic Corporation
  - 9.2.1 Panasonic Corporation Depletion-Mode GaN HEMT Basic Information
  - 9.2.2 Panasonic Corporation Depletion-Mode GaN HEMT Product Overview
  - 9.2.3 Panasonic Corporation Depletion-Mode GaN HEMT Product Market Performance
  - 9.2.4 Panasonic Corporation Business Overview
  - 9.2.5 Panasonic Corporation Depletion-Mode GaN HEMT SWOT Analysis
  - 9.2.6 Panasonic Corporation Recent Developments
- 9.3 Navitas Semiconductor
  - 9.3.1 Navitas Semiconductor Depletion-Mode GaN HEMT Basic Information
  - 9.3.2 Navitas Semiconductor Depletion-Mode GaN HEMT Product Overview
  - 9.3.3 Navitas Semiconductor Depletion-Mode GaN HEMT Product Market Performance
  - 9.3.4 Navitas Semiconductor Depletion-Mode GaN HEMT SWOT Analysis
  - 9.3.5 Navitas Semiconductor Business Overview
  - 9.3.6 Navitas Semiconductor Recent Developments
- 9.4 Efficient Power Conversion (EPC)
  - 9.4.1 Efficient Power Conversion (EPC) Depletion-Mode GaN HEMT Basic Information
  - 9.4.2 Efficient Power Conversion (EPC) Depletion-Mode GaN HEMT Product Overview
  - 9.4.3 Efficient Power Conversion (EPC) Depletion-Mode GaN HEMT Product Market Performance
  - 9.4.4 Efficient Power Conversion (EPC) Business Overview
  - 9.4.5 Efficient Power Conversion (EPC) Recent Developments
- 9.5 Texas Instruments Inc
  - 9.5.1 Texas Instruments Inc Depletion-Mode GaN HEMT Basic Information
  - 9.5.2 Texas Instruments Inc Depletion-Mode GaN HEMT Product Overview
  - 9.5.3 Texas Instruments Inc Depletion-Mode GaN HEMT Product Market Performance
  - 9.5.4 Texas Instruments Inc Business Overview
  - 9.5.5 Texas Instruments Inc Recent Developments
- 9.6 Microchip Technology Inc
  - 9.6.1 Microchip Technology Inc Depletion-Mode GaN HEMT Basic Information
  - 9.6.2 Microchip Technology Inc Depletion-Mode GaN HEMT Product Overview
  - 9.6.3 Microchip Technology Inc Depletion-Mode GaN HEMT Product Market

## Performance

- 9.6.4 Microchip Technology Inc Business Overview
- 9.6.5 Microchip Technology Inc Recent Developments

## 9.7 Mitsubishi Electric Corporation

- 9.7.1 Mitsubishi Electric Corporation Depletion-Mode GaN HEMT Basic Information
- 9.7.2 Mitsubishi Electric Corporation Depletion-Mode GaN HEMT Product Overview
- 9.7.3 Mitsubishi Electric Corporation Depletion-Mode GaN HEMT Product Market

## Performance

- 9.7.4 Mitsubishi Electric Corporation Business Overview
- 9.7.5 Mitsubishi Electric Corporation Recent Developments

## 9.8 Qorvo Inc

- 9.8.1 Qorvo Inc Depletion-Mode GaN HEMT Basic Information
- 9.8.2 Qorvo Inc Depletion-Mode GaN HEMT Product Overview
- 9.8.3 Qorvo Inc Depletion-Mode GaN HEMT Product Market Performance
- 9.8.4 Qorvo Inc Business Overview
- 9.8.5 Qorvo Inc Recent Developments

## 9.9 Sumitomo Electric Industries

- 9.9.1 Sumitomo Electric Industries Depletion-Mode GaN HEMT Basic Information
- 9.9.2 Sumitomo Electric Industries Depletion-Mode GaN HEMT Product Overview
- 9.9.3 Sumitomo Electric Industries Depletion-Mode GaN HEMT Product Market

## Performance

- 9.9.4 Sumitomo Electric Industries Business Overview
- 9.9.5 Sumitomo Electric Industries Recent Developments

## 9.10 GaN Systems Inc

- 9.10.1 GaN Systems Inc Depletion-Mode GaN HEMT Basic Information
- 9.10.2 GaN Systems Inc Depletion-Mode GaN HEMT Product Overview
- 9.10.3 GaN Systems Inc Depletion-Mode GaN HEMT Product Market Performance
- 9.10.4 GaN Systems Inc Business Overview
- 9.10.5 GaN Systems Inc Recent Developments

## 9.11 Wolfspeed

- 9.11.1 Wolfspeed Depletion-Mode GaN HEMT Basic Information
- 9.11.2 Wolfspeed Depletion-Mode GaN HEMT Product Overview
- 9.11.3 Wolfspeed Depletion-Mode GaN HEMT Product Market Performance
- 9.11.4 Wolfspeed Business Overview
- 9.11.5 Wolfspeed Recent Developments

## 9.12 Transphorm Inc

- 9.12.1 Transphorm Inc Depletion-Mode GaN HEMT Basic Information
- 9.12.2 Transphorm Inc Depletion-Mode GaN HEMT Product Overview
- 9.12.3 Transphorm Inc Depletion-Mode GaN HEMT Product Market Performance

- 9.12.4 Transphorm Inc Business Overview
- 9.12.5 Transphorm Inc Recent Developments
- 9.13 MACOM Technology Solutions
  - 9.13.1 MACOM Technology Solutions Depletion-Mode GaN HEMT Basic Information
  - 9.13.2 MACOM Technology Solutions Depletion-Mode GaN HEMT Product Overview
  - 9.13.3 MACOM Technology Solutions Depletion-Mode GaN HEMT Product Market Performance
  - 9.13.4 MACOM Technology Solutions Business Overview
  - 9.13.5 MACOM Technology Solutions Recent Developments
- 9.14 Soitec Belgian NV
  - 9.14.1 Soitec Belgian NV Depletion-Mode GaN HEMT Basic Information
  - 9.14.2 Soitec Belgian NV Depletion-Mode GaN HEMT Product Overview
  - 9.14.3 Soitec Belgian NV Depletion-Mode GaN HEMT Product Market Performance
  - 9.14.4 Soitec Belgian NV Business Overview
  - 9.14.5 Soitec Belgian NV Recent Developments

## **10 DEPLETION-MODE GAN HEMT MARKET FORECAST BY REGION**

- 10.1 Global Depletion-Mode GaN HEMT Market Size Forecast
- 10.2 Global Depletion-Mode GaN HEMT Market Forecast by Region
  - 10.2.1 North America Market Size Forecast by Country
  - 10.2.2 Europe Depletion-Mode GaN HEMT Market Size Forecast by Country
  - 10.2.3 Asia Pacific Depletion-Mode GaN HEMT Market Size Forecast by Region
  - 10.2.4 South America Depletion-Mode GaN HEMT Market Size Forecast by Country
  - 10.2.5 Middle East and Africa Forecasted Consumption of Depletion-Mode GaN HEMT by Country

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

- 11.1 Global Depletion-Mode GaN HEMT Market Forecast by Type (2025-2030)
  - 11.1.1 Global Forecasted Sales of Depletion-Mode GaN HEMT by Type (2025-2030)
  - 11.1.2 Global Depletion-Mode GaN HEMT Market Size Forecast by Type (2025-2030)
  - 11.1.3 Global Forecasted Price of Depletion-Mode GaN HEMT by Type (2025-2030)
- 11.2 Global Depletion-Mode GaN HEMT Market Forecast by Application (2025-2030)
  - 11.2.1 Global Depletion-Mode GaN HEMT Sales (K Units) Forecast by Application
  - 11.2.2 Global Depletion-Mode GaN HEMT 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. Depletion-Mode GaN HEMT Market Size Comparison by Region (M USD)

Table 5. Global Depletion-Mode GaN HEMT Sales (K Units) by Manufacturers  
(2019-2024)

Table 6. Global Depletion-Mode GaN HEMT Sales Market Share by Manufacturers  
(2019-2024)

Table 7. Global Depletion-Mode GaN HEMT Revenue (M USD) by Manufacturers  
(2019-2024)

Table 8. Global Depletion-Mode GaN HEMT Revenue Share by Manufacturers  
(2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in  
Depletion-Mode GaN HEMT as of 2022)

Table 10. Global Market Depletion-Mode GaN HEMT Average Price (USD/Unit) of Key  
Manufacturers (2019-2024)

Table 11. Manufacturers Depletion-Mode GaN HEMT Sales Sites and Area Served

Table 12. Manufacturers Depletion-Mode GaN HEMT Product Type

Table 13. Global Depletion-Mode GaN HEMT Manufacturers Market Concentration  
Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Depletion-Mode GaN HEMT

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. Depletion-Mode GaN HEMT Market Challenges

Table 22. Global Depletion-Mode GaN HEMT Sales by Type (K Units)

Table 23. Global Depletion-Mode GaN HEMT Market Size by Type (M USD)

Table 24. Global Depletion-Mode GaN HEMT Sales (K Units) by Type (2019-2024)

Table 25. Global Depletion-Mode GaN HEMT Sales Market Share by Type (2019-2024)

Table 26. Global Depletion-Mode GaN HEMT Market Size (M USD) by Type  
(2019-2024)

Table 27. Global Depletion-Mode GaN HEMT Market Size Share by Type (2019-2024)

Table 28. Global Depletion-Mode GaN HEMT Price (USD/Unit) by Type (2019-2024)

Table 29. Global Depletion-Mode GaN HEMT Sales (K Units) by Application

Table 30. Global Depletion-Mode GaN HEMT Market Size by Application

Table 31. Global Depletion-Mode GaN HEMT Sales by Application (2019-2024) & (K Units)

Table 32. Global Depletion-Mode GaN HEMT Sales Market Share by Application (2019-2024)

Table 33. Global Depletion-Mode GaN HEMT Sales by Application (2019-2024) & (M USD)

Table 34. Global Depletion-Mode GaN HEMT Market Share by Application (2019-2024)

Table 35. Global Depletion-Mode GaN HEMT Sales Growth Rate by Application (2019-2024)

Table 36. Global Depletion-Mode GaN HEMT Sales by Region (2019-2024) & (K Units)

Table 37. Global Depletion-Mode GaN HEMT Sales Market Share by Region (2019-2024)

Table 38. North America Depletion-Mode GaN HEMT Sales by Country (2019-2024) & (K Units)

Table 39. Europe Depletion-Mode GaN HEMT Sales by Country (2019-2024) & (K Units)

Table 40. Asia Pacific Depletion-Mode GaN HEMT Sales by Region (2019-2024) & (K Units)

Table 41. South America Depletion-Mode GaN HEMT Sales by Country (2019-2024) & (K Units)

Table 42. Middle East and Africa Depletion-Mode GaN HEMT Sales by Region (2019-2024) & (K Units)

Table 43. Infineon Technologies AG Depletion-Mode GaN HEMT Basic Information

Table 44. Infineon Technologies AG Depletion-Mode GaN HEMT Product Overview

Table 45. Infineon Technologies AG Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 46. Infineon Technologies AG Business Overview

Table 47. Infineon Technologies AG Depletion-Mode GaN HEMT SWOT Analysis

Table 48. Infineon Technologies AG Recent Developments

Table 49. Panasonic Corporation Depletion-Mode GaN HEMT Basic Information

Table 50. Panasonic Corporation Depletion-Mode GaN HEMT Product Overview

Table 51. Panasonic Corporation Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 52. Panasonic Corporation Business Overview

Table 53. Panasonic Corporation Depletion-Mode GaN HEMT SWOT Analysis

Table 54. Panasonic Corporation Recent Developments

Table 55. Navitas Semiconductor Depletion-Mode GaN HEMT Basic Information

Table 56. Navitas Semiconductor Depletion-Mode GaN HEMT Product Overview

Table 57. Navitas Semiconductor Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 58. Navitas Semiconductor Depletion-Mode GaN HEMT SWOT Analysis

Table 59. Navitas Semiconductor Business Overview

Table 60. Navitas Semiconductor Recent Developments

Table 61. Efficient Power Conversion (EPC) Depletion-Mode GaN HEMT Basic Information

Table 62. Efficient Power Conversion (EPC) Depletion-Mode GaN HEMT Product Overview

Table 63. Efficient Power Conversion (EPC) Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 64. Efficient Power Conversion (EPC) Business Overview

Table 65. Efficient Power Conversion (EPC) Recent Developments

Table 66. Texas Instruments Inc Depletion-Mode GaN HEMT Basic Information

Table 67. Texas Instruments Inc Depletion-Mode GaN HEMT Product Overview

Table 68. Texas Instruments Inc Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 69. Texas Instruments Inc Business Overview

Table 70. Texas Instruments Inc Recent Developments

Table 71. Microchip Technology Inc Depletion-Mode GaN HEMT Basic Information

Table 72. Microchip Technology Inc Depletion-Mode GaN HEMT Product Overview

Table 73. Microchip Technology Inc Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 74. Microchip Technology Inc Business Overview

Table 75. Microchip Technology Inc Recent Developments

Table 76. Mitsubishi Electric Corporation Depletion-Mode GaN HEMT Basic Information

Table 77. Mitsubishi Electric Corporation Depletion-Mode GaN HEMT Product Overview

Table 78. Mitsubishi Electric Corporation Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 79. Mitsubishi Electric Corporation Business Overview

Table 80. Mitsubishi Electric Corporation Recent Developments

Table 81. Qorvo Inc Depletion-Mode GaN HEMT Basic Information

Table 82. Qorvo Inc Depletion-Mode GaN HEMT Product Overview

Table 83. Qorvo Inc Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 84. Qorvo Inc Business Overview

Table 85. Qorvo Inc Recent Developments

- Table 86. Sumitomo Electric Industries Depletion-Mode GaN HEMT Basic Information
- Table 87. Sumitomo Electric Industries Depletion-Mode GaN HEMT Product Overview
- Table 88. Sumitomo Electric Industries Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 89. Sumitomo Electric Industries Business Overview
- Table 90. Sumitomo Electric Industries Recent Developments
- Table 91. GaN Systems Inc Depletion-Mode GaN HEMT Basic Information
- Table 92. GaN Systems Inc Depletion-Mode GaN HEMT Product Overview
- Table 93. GaN Systems Inc Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 94. GaN Systems Inc Business Overview
- Table 95. GaN Systems Inc Recent Developments
- Table 96. Wolfspeed Depletion-Mode GaN HEMT Basic Information
- Table 97. Wolfspeed Depletion-Mode GaN HEMT Product Overview
- Table 98. Wolfspeed Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 99. Wolfspeed Business Overview
- Table 100. Wolfspeed Recent Developments
- Table 101. Transphorm Inc Depletion-Mode GaN HEMT Basic Information
- Table 102. Transphorm Inc Depletion-Mode GaN HEMT Product Overview
- Table 103. Transphorm Inc Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 104. Transphorm Inc Business Overview
- Table 105. Transphorm Inc Recent Developments
- Table 106. MACOM Technology Solutions Depletion-Mode GaN HEMT Basic Information
- Table 107. MACOM Technology Solutions Depletion-Mode GaN HEMT Product Overview
- Table 108. MACOM Technology Solutions Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 109. MACOM Technology Solutions Business Overview
- Table 110. MACOM Technology Solutions Recent Developments
- Table 111. Soitec Belgian NV Depletion-Mode GaN HEMT Basic Information
- Table 112. Soitec Belgian NV Depletion-Mode GaN HEMT Product Overview
- Table 113. Soitec Belgian NV Depletion-Mode GaN HEMT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 114. Soitec Belgian NV Business Overview
- Table 115. Soitec Belgian NV Recent Developments
- Table 116. Global Depletion-Mode GaN HEMT Sales Forecast by Region (2025-2030)

& (K Units)

Table 117. Global Depletion-Mode GaN HEMT Market Size Forecast by Region (2025-2030) & (M USD)

Table 118. North America Depletion-Mode GaN HEMT Sales Forecast by Country (2025-2030) & (K Units)

Table 119. North America Depletion-Mode GaN HEMT Market Size Forecast by Country (2025-2030) & (M USD)

Table 120. Europe Depletion-Mode GaN HEMT Sales Forecast by Country (2025-2030) & (K Units)

Table 121. Europe Depletion-Mode GaN HEMT Market Size Forecast by Country (2025-2030) & (M USD)

Table 122. Asia Pacific Depletion-Mode GaN HEMT Sales Forecast by Region (2025-2030) & (K Units)

Table 123. Asia Pacific Depletion-Mode GaN HEMT Market Size Forecast by Region (2025-2030) & (M USD)

Table 124. South America Depletion-Mode GaN HEMT Sales Forecast by Country (2025-2030) & (K Units)

Table 125. South America Depletion-Mode GaN HEMT Market Size Forecast by Country (2025-2030) & (M USD)

Table 126. Middle East and Africa Depletion-Mode GaN HEMT Consumption Forecast by Country (2025-2030) & (Units)

Table 127. Middle East and Africa Depletion-Mode GaN HEMT Market Size Forecast by Country (2025-2030) & (M USD)

Table 128. Global Depletion-Mode GaN HEMT Sales Forecast by Type (2025-2030) & (K Units)

Table 129. Global Depletion-Mode GaN HEMT Market Size Forecast by Type (2025-2030) & (M USD)

Table 130. Global Depletion-Mode GaN HEMT Price Forecast by Type (2025-2030) & (USD/Unit)

Table 131. Global Depletion-Mode GaN HEMT Sales (K Units) Forecast by Application (2025-2030)

Table 132. Global Depletion-Mode GaN HEMT Market Size Forecast by Application (2025-2030) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Depletion-Mode GaN HEMT
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Depletion-Mode GaN HEMT Market Size (M USD), 2019-2030
- Figure 5. Global Depletion-Mode GaN HEMT Market Size (M USD) (2019-2030)
- Figure 6. Global Depletion-Mode GaN HEMT 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. Depletion-Mode GaN HEMT Market Size by Country (M USD)
- Figure 11. Depletion-Mode GaN HEMT Sales Share by Manufacturers in 2023
- Figure 12. Global Depletion-Mode GaN HEMT Revenue Share by Manufacturers in 2023
- Figure 13. Depletion-Mode GaN HEMT Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Depletion-Mode GaN HEMT Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Depletion-Mode GaN HEMT Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Depletion-Mode GaN HEMT Market Share by Type
- Figure 18. Sales Market Share of Depletion-Mode GaN HEMT by Type (2019-2024)
- Figure 19. Sales Market Share of Depletion-Mode GaN HEMT by Type in 2023
- Figure 20. Market Size Share of Depletion-Mode GaN HEMT by Type (2019-2024)
- Figure 21. Market Size Market Share of Depletion-Mode GaN HEMT by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Depletion-Mode GaN HEMT Market Share by Application
- Figure 24. Global Depletion-Mode GaN HEMT Sales Market Share by Application (2019-2024)
- Figure 25. Global Depletion-Mode GaN HEMT Sales Market Share by Application in 2023
- Figure 26. Global Depletion-Mode GaN HEMT Market Share by Application (2019-2024)
- Figure 27. Global Depletion-Mode GaN HEMT Market Share by Application in 2023
- Figure 28. Global Depletion-Mode GaN HEMT Sales Growth Rate by Application (2019-2024)

Figure 29. Global Depletion-Mode GaN HEMT Sales Market Share by Region (2019-2024)

Figure 30. North America Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 31. North America Depletion-Mode GaN HEMT Sales Market Share by Country in 2023

Figure 32. U.S. Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada Depletion-Mode GaN HEMT Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico Depletion-Mode GaN HEMT Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe Depletion-Mode GaN HEMT Sales Market Share by Country in 2023

Figure 37. Germany Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific Depletion-Mode GaN HEMT Sales and Growth Rate (K Units)

Figure 43. Asia Pacific Depletion-Mode GaN HEMT Sales Market Share by Region in 2023

Figure 44. China Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America Depletion-Mode GaN HEMT Sales and Growth Rate (K Units)

Figure 50. South America Depletion-Mode GaN HEMT Sales Market Share by Country in 2023

Figure 51. Brazil Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa Depletion-Mode GaN HEMT Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa Depletion-Mode GaN HEMT Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa Depletion-Mode GaN HEMT Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global Depletion-Mode GaN HEMT Sales Forecast by Volume (2019-2030) & (K Units)

Figure 62. Global Depletion-Mode GaN HEMT Market Size Forecast by Value (2019-2030) & (M USD)

Figure 63. Global Depletion-Mode GaN HEMT Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global Depletion-Mode GaN HEMT Market Share Forecast by Type (2025-2030)

Figure 65. Global Depletion-Mode GaN HEMT Sales Forecast by Application (2025-2030)

Figure 66. Global Depletion-Mode GaN HEMT Market Share Forecast by Application (2025-2030)

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