

# Global GaN Field-Effect Transistors Market Research Report 2024, Forecast to 2032

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## Abstracts

### Report Overview

GaN Field-Effect Transistors is a type of field effect transistor based on gallium nitride and aluminum gallium nitride. Due to the good heat dissipation performance, high breakdown electric field and high saturation speed of GaN materials, GaN FETs have great application prospects in high-power high-frequency energy conversion and high-frequency microwave communication.

The global GaN Field-Effect Transistors market size was estimated at USD 2329 million in 2023 and is projected to reach USD 22248.34 million by 2032, exhibiting a CAGR of 28.50% during the forecast period.

North America GaN Field-Effect Transistors market size was estimated at USD 939.59 million in 2023, at a CAGR of 24.43% during the forecast period of 2024 through 2032.

This report provides a deep insight into the global GaN Field-Effect Transistors 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 GaN Field-Effect Transistors 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 GaN Field-Effect Transistors market in any manner.

### Global GaN Field-Effect Transistors 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

Texas Instruments

Nexperia

Renesas Electronics

NXP

Transphorm

Panasonic Electronic

GaN Systems

EPC

pSemi (Murata)

Toshiba

Qorvo

Market Segmentation (by Type)

HFET

MODFET

Others

Market Segmentation (by Application)

Consumer Electronics

Automotive

Communication

Charging Equipment

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the GaN Field-Effect Transistors Market

Overview of the regional outlook of the GaN Field-Effect Transistors 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 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 GaN Field-Effect Transistors 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 from the consumer side and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of GaN Field-Effect Transistors, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region during the forecast period.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment during the forecast period.

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

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

1.1 Market Definition and Statistical Scope of GaN Field-Effect Transistors

1.2 Key Market Segments

1.2.1 GaN Field-Effect Transistors Segment by Type

1.2.2 GaN Field-Effect Transistors Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

### **2 GAN FIELD-EFFECT TRANSISTORS MARKET OVERVIEW**

2.1 Global Market Overview

2.1.1 Global GaN Field-Effect Transistors Market Size (M USD) Estimates and Forecasts (2019-2032)

2.1.2 Global GaN Field-Effect Transistors Sales Estimates and Forecasts (2019-2032)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

### **3 GAN FIELD-EFFECT TRANSISTORS MARKET COMPETITIVE LANDSCAPE**

3.1 Global GaN Field-Effect Transistors Sales by Manufacturers (2019-2024)

3.2 Global GaN Field-Effect Transistors Revenue Market Share by Manufacturers (2019-2024)

3.3 GaN Field-Effect Transistors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global GaN Field-Effect Transistors Average Price by Manufacturers (2019-2024)

3.5 Manufacturers GaN Field-Effect Transistors Sales Sites, Area Served, Product Type

3.6 GaN Field-Effect Transistors Market Competitive Situation and Trends

3.6.1 GaN Field-Effect Transistors Market Concentration Rate

3.6.2 Global 5 and 10 Largest GaN Field-Effect Transistors Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

## **4 GAN FIELD-EFFECT TRANSISTORS INDUSTRY CHAIN ANALYSIS**

- 4.1 GaN Field-Effect Transistors Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF GAN FIELD-EFFECT TRANSISTORS 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 GAN FIELD-EFFECT TRANSISTORS MARKET SEGMENTATION BY TYPE**

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

## **7 GAN FIELD-EFFECT TRANSISTORS MARKET SEGMENTATION BY APPLICATION**

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

## **8 GAN FIELD-EFFECT TRANSISTORS MARKET CONSUMPTION BY REGION**

## 8.1 Global GaN Field-Effect Transistors Sales by Region

### 8.1.1 Global GaN Field-Effect Transistors Sales by Region

### 8.1.2 Global GaN Field-Effect Transistors Sales Market Share by Region

## 8.2 North America

### 8.2.1 North America GaN Field-Effect Transistors Sales by Country

#### 8.2.2 U.S.

#### 8.2.3 Canada

#### 8.2.4 Mexico

## 8.3 Europe

### 8.3.1 Europe GaN Field-Effect Transistors 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 GaN Field-Effect Transistors 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 GaN Field-Effect Transistors 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 GaN Field-Effect Transistors 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 GAN FIELD-EFFECT TRANSISTORS MARKET PRODUCTION BY REGION**

### 9.1 Global Production of GaN Field-Effect Transistors by Region (2019-2024)

### 9.2 Global GaN Field-Effect Transistors Revenue Market Share by Region (2019-2024)

9.3 Global GaN Field-Effect Transistors Production, Revenue, Price and Gross Margin (2019-2024)

9.4 North America GaN Field-Effect Transistors Production

9.4.1 North America GaN Field-Effect Transistors Production Growth Rate (2019-2024)

9.4.2 North America GaN Field-Effect Transistors Production, Revenue, Price and Gross Margin (2019-2024)

9.5 Europe GaN Field-Effect Transistors Production

9.5.1 Europe GaN Field-Effect Transistors Production Growth Rate (2019-2024)

9.5.2 Europe GaN Field-Effect Transistors Production, Revenue, Price and Gross Margin (2019-2024)

9.6 Japan GaN Field-Effect Transistors Production (2019-2024)

9.6.1 Japan GaN Field-Effect Transistors Production Growth Rate (2019-2024)

9.6.2 Japan GaN Field-Effect Transistors Production, Revenue, Price and Gross Margin (2019-2024)

9.7 China GaN Field-Effect Transistors Production (2019-2024)

9.7.1 China GaN Field-Effect Transistors Production Growth Rate (2019-2024)

9.7.2 China GaN Field-Effect Transistors Production, Revenue, Price and Gross Margin (2019-2024)

## **10 KEY COMPANIES PROFILE**

10.1 Infineon Technologies

10.1.1 Infineon Technologies GaN Field-Effect Transistors Basic Information

10.1.2 Infineon Technologies GaN Field-Effect Transistors Product Overview

10.1.3 Infineon Technologies GaN Field-Effect Transistors Product Market Performance

10.1.4 Infineon Technologies Business Overview

10.1.5 Infineon Technologies GaN Field-Effect Transistors SWOT Analysis

10.1.6 Infineon Technologies Recent Developments

10.2 Texas Instruments

10.2.1 Texas Instruments GaN Field-Effect Transistors Basic Information

10.2.2 Texas Instruments GaN Field-Effect Transistors Product Overview

10.2.3 Texas Instruments GaN Field-Effect Transistors Product Market Performance

10.2.4 Texas Instruments Business Overview

10.2.5 Texas Instruments GaN Field-Effect Transistors SWOT Analysis

10.2.6 Texas Instruments Recent Developments

10.3 Nexperia

10.3.1 Nexperia GaN Field-Effect Transistors Basic Information

- 10.3.2 Nexperia GaN Field-Effect Transistors Product Overview
- 10.3.3 Nexperia GaN Field-Effect Transistors Product Market Performance
- 10.3.4 Nexperia GaN Field-Effect Transistors SWOT Analysis
- 10.3.5 Nexperia Business Overview
- 10.3.6 Nexperia Recent Developments
- 10.4 Renesas Electronics
  - 10.4.1 Renesas Electronics GaN Field-Effect Transistors Basic Information
  - 10.4.2 Renesas Electronics GaN Field-Effect Transistors Product Overview
  - 10.4.3 Renesas Electronics GaN Field-Effect Transistors Product Market Performance
  - 10.4.4 Renesas Electronics Business Overview
  - 10.4.5 Renesas Electronics Recent Developments
- 10.5 NXP
  - 10.5.1 NXP GaN Field-Effect Transistors Basic Information
  - 10.5.2 NXP GaN Field-Effect Transistors Product Overview
  - 10.5.3 NXP GaN Field-Effect Transistors Product Market Performance
  - 10.5.4 NXP Business Overview
  - 10.5.5 NXP Recent Developments
- 10.6 Transphorm
  - 10.6.1 Transphorm GaN Field-Effect Transistors Basic Information
  - 10.6.2 Transphorm GaN Field-Effect Transistors Product Overview
  - 10.6.3 Transphorm GaN Field-Effect Transistors Product Market Performance
  - 10.6.4 Transphorm Business Overview
  - 10.6.5 Transphorm Recent Developments
- 10.7 Panasonic Electronic
  - 10.7.1 Panasonic Electronic GaN Field-Effect Transistors Basic Information
  - 10.7.2 Panasonic Electronic GaN Field-Effect Transistors Product Overview
  - 10.7.3 Panasonic Electronic GaN Field-Effect Transistors Product Market Performance
  - 10.7.4 Panasonic Electronic Business Overview
  - 10.7.5 Panasonic Electronic Recent Developments
- 10.8 GaN Systems
  - 10.8.1 GaN Systems GaN Field-Effect Transistors Basic Information
  - 10.8.2 GaN Systems GaN Field-Effect Transistors Product Overview
  - 10.8.3 GaN Systems GaN Field-Effect Transistors Product Market Performance
  - 10.8.4 GaN Systems Business Overview
  - 10.8.5 GaN Systems Recent Developments
- 10.9 EPC
  - 10.9.1 EPC GaN Field-Effect Transistors Basic Information
  - 10.9.2 EPC GaN Field-Effect Transistors Product Overview
  - 10.9.3 EPC GaN Field-Effect Transistors Product Market Performance

- 10.9.4 EPC Business Overview
- 10.9.5 EPC Recent Developments
- 10.10 pSemi (Murata)
  - 10.10.1 pSemi (Murata) GaN Field-Effect Transistors Basic Information
  - 10.10.2 pSemi (Murata) GaN Field-Effect Transistors Product Overview
  - 10.10.3 pSemi (Murata) GaN Field-Effect Transistors Product Market Performance
  - 10.10.4 pSemi (Murata) Business Overview
  - 10.10.5 pSemi (Murata) Recent Developments
- 10.11 Toshiba
  - 10.11.1 Toshiba GaN Field-Effect Transistors Basic Information
  - 10.11.2 Toshiba GaN Field-Effect Transistors Product Overview
  - 10.11.3 Toshiba GaN Field-Effect Transistors Product Market Performance
  - 10.11.4 Toshiba Business Overview
  - 10.11.5 Toshiba Recent Developments
- 10.12 Qorvo
  - 10.12.1 Qorvo GaN Field-Effect Transistors Basic Information
  - 10.12.2 Qorvo GaN Field-Effect Transistors Product Overview
  - 10.12.3 Qorvo GaN Field-Effect Transistors Product Market Performance
  - 10.12.4 Qorvo Business Overview
  - 10.12.5 Qorvo Recent Developments

## **11 GAN FIELD-EFFECT TRANSISTORS MARKET FORECAST BY REGION**

- 11.1 Global GaN Field-Effect Transistors Market Size Forecast
- 11.2 Global GaN Field-Effect Transistors Market Forecast by Region
  - 11.2.1 North America Market Size Forecast by Country
  - 11.2.2 Europe GaN Field-Effect Transistors Market Size Forecast by Country
  - 11.2.3 Asia Pacific GaN Field-Effect Transistors Market Size Forecast by Region
  - 11.2.4 South America GaN Field-Effect Transistors Market Size Forecast by Country
  - 11.2.5 Middle East and Africa Forecasted Consumption of GaN Field-Effect Transistors by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)**

- 12.1 Global GaN Field-Effect Transistors Market Forecast by Type (2025-2032)
  - 12.1.1 Global Forecasted Sales of GaN Field-Effect Transistors by Type (2025-2032)
  - 12.1.2 Global GaN Field-Effect Transistors Market Size Forecast by Type (2025-2032)
  - 12.1.3 Global Forecasted Price of GaN Field-Effect Transistors by Type (2025-2032)
- 12.2 Global GaN Field-Effect Transistors Market Forecast by Application (2025-2032)

12.2.1 Global GaN Field-Effect Transistors Sales (K Units) Forecast by Application  
12.2.2 Global GaN Field-Effect Transistors Market Size (M USD) Forecast by  
Application (2025-2032)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

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

Table 4. GaN Field-Effect Transistors Market Size Comparison by Region (M USD)

Table 5. Global GaN Field-Effect Transistors Sales (K Units) by Manufacturers  
(2019-2024)

Table 6. Global GaN Field-Effect Transistors Sales Market Share by Manufacturers  
(2019-2024)

Table 7. Global GaN Field-Effect Transistors Revenue (M USD) by Manufacturers  
(2019-2024)

Table 8. Global GaN Field-Effect Transistors Revenue Share by Manufacturers  
(2019-2024)

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

Table 10. Global Market GaN Field-Effect Transistors Average Price (USD/Unit) of Key  
Manufacturers (2019-2024)

Table 11. Manufacturers GaN Field-Effect Transistors Sales Sites and Area Served

Table 12. Manufacturers GaN Field-Effect Transistors Product Type

Table 13. Global GaN Field-Effect Transistors Manufacturers Market Concentration  
Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of GaN Field-Effect Transistors

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. GaN Field-Effect Transistors Market Challenges

Table 22. Global GaN Field-Effect Transistors Sales by Type (K Units)

Table 23. Global GaN Field-Effect Transistors Market Size by Type (M USD)

Table 24. Global GaN Field-Effect Transistors Sales (K Units) by Type (2019-2024)

Table 25. Global GaN Field-Effect Transistors Sales Market Share by Type (2019-2024)

Table 26. Global GaN Field-Effect Transistors Market Size (M USD) by Type  
(2019-2024)

Table 27. Global GaN Field-Effect Transistors Market Size Share by Type (2019-2024)

- Table 28. Global GaN Field-Effect Transistors Price (USD/Unit) by Type (2019-2024)
- Table 29. Global GaN Field-Effect Transistors Sales (K Units) by Application
- Table 30. Global GaN Field-Effect Transistors Market Size by Application
- Table 31. Global GaN Field-Effect Transistors Sales by Application (2019-2024) & (K Units)
- Table 32. Global GaN Field-Effect Transistors Sales Market Share by Application (2019-2024)
- Table 33. Global GaN Field-Effect Transistors Sales by Application (2019-2024) & (M USD)
- Table 34. Global GaN Field-Effect Transistors Market Share by Application (2019-2024)
- Table 35. Global GaN Field-Effect Transistors Sales Growth Rate by Application (2019-2024)
- Table 36. Global GaN Field-Effect Transistors Sales by Region (2019-2024) & (K Units)
- Table 37. Global GaN Field-Effect Transistors Sales Market Share by Region (2019-2024)
- Table 38. North America GaN Field-Effect Transistors Sales by Country (2019-2024) & (K Units)
- Table 39. Europe GaN Field-Effect Transistors Sales by Country (2019-2024) & (K Units)
- Table 40. Asia Pacific GaN Field-Effect Transistors Sales by Region (2019-2024) & (K Units)
- Table 41. South America GaN Field-Effect Transistors Sales by Country (2019-2024) & (K Units)
- Table 42. Middle East and Africa GaN Field-Effect Transistors Sales by Region (2019-2024) & (K Units)
- Table 43. Global GaN Field-Effect Transistors Production (K Units) by Region (2019-2024)
- Table 44. Global GaN Field-Effect Transistors Revenue (US\$ Million) by Region (2019-2024)
- Table 45. Global GaN Field-Effect Transistors Revenue Market Share by Region (2019-2024)
- Table 46. Global GaN Field-Effect Transistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 47. North America GaN Field-Effect Transistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 48. Europe GaN Field-Effect Transistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 49. Japan GaN Field-Effect Transistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 50. China GaN Field-Effect Transistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 51. Infineon Technologies GaN Field-Effect Transistors Basic Information

Table 52. Infineon Technologies GaN Field-Effect Transistors Product Overview

Table 53. Infineon Technologies GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 54. Infineon Technologies Business Overview

Table 55. Infineon Technologies GaN Field-Effect Transistors SWOT Analysis

Table 56. Infineon Technologies Recent Developments

Table 57. Texas Instruments GaN Field-Effect Transistors Basic Information

Table 58. Texas Instruments GaN Field-Effect Transistors Product Overview

Table 59. Texas Instruments GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 60. Texas Instruments Business Overview

Table 61. Texas Instruments GaN Field-Effect Transistors SWOT Analysis

Table 62. Texas Instruments Recent Developments

Table 63. Nexperia GaN Field-Effect Transistors Basic Information

Table 64. Nexperia GaN Field-Effect Transistors Product Overview

Table 65. Nexperia GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 66. Nexperia GaN Field-Effect Transistors SWOT Analysis

Table 67. Nexperia Business Overview

Table 68. Nexperia Recent Developments

Table 69. Renesas Electronics GaN Field-Effect Transistors Basic Information

Table 70. Renesas Electronics GaN Field-Effect Transistors Product Overview

Table 71. Renesas Electronics GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 72. Renesas Electronics Business Overview

Table 73. Renesas Electronics Recent Developments

Table 74. NXP GaN Field-Effect Transistors Basic Information

Table 75. NXP GaN Field-Effect Transistors Product Overview

Table 76. NXP GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 77. NXP Business Overview

Table 78. NXP Recent Developments

Table 79. Transphorm GaN Field-Effect Transistors Basic Information

Table 80. Transphorm GaN Field-Effect Transistors Product Overview

Table 81. Transphorm GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

- Table 82. Transphorm Business Overview
- Table 83. Transphorm Recent Developments
- Table 84. Panasonic Electronic GaN Field-Effect Transistors Basic Information
- Table 85. Panasonic Electronic GaN Field-Effect Transistors Product Overview
- Table 86. Panasonic Electronic GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 87. Panasonic Electronic Business Overview
- Table 88. Panasonic Electronic Recent Developments
- Table 89. GaN Systems GaN Field-Effect Transistors Basic Information
- Table 90. GaN Systems GaN Field-Effect Transistors Product Overview
- Table 91. GaN Systems GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 92. GaN Systems Business Overview
- Table 93. GaN Systems Recent Developments
- Table 94. EPC GaN Field-Effect Transistors Basic Information
- Table 95. EPC GaN Field-Effect Transistors Product Overview
- Table 96. EPC GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 97. EPC Business Overview
- Table 98. EPC Recent Developments
- Table 99. pSemi (Murata) GaN Field-Effect Transistors Basic Information
- Table 100. pSemi (Murata) GaN Field-Effect Transistors Product Overview
- Table 101. pSemi (Murata) GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 102. pSemi (Murata) Business Overview
- Table 103. pSemi (Murata) Recent Developments
- Table 104. Toshiba GaN Field-Effect Transistors Basic Information
- Table 105. Toshiba GaN Field-Effect Transistors Product Overview
- Table 106. Toshiba GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 107. Toshiba Business Overview
- Table 108. Toshiba Recent Developments
- Table 109. Qorvo GaN Field-Effect Transistors Basic Information
- Table 110. Qorvo GaN Field-Effect Transistors Product Overview
- Table 111. Qorvo GaN Field-Effect Transistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 112. Qorvo Business Overview
- Table 113. Qorvo Recent Developments
- Table 114. Global GaN Field-Effect Transistors Sales Forecast by Region (2025-2032)

& (K Units)

Table 115. Global GaN Field-Effect Transistors Market Size Forecast by Region (2025-2032) & (M USD)

Table 116. North America GaN Field-Effect Transistors Sales Forecast by Country (2025-2032) & (K Units)

Table 117. North America GaN Field-Effect Transistors Market Size Forecast by Country (2025-2032) & (M USD)

Table 118. Europe GaN Field-Effect Transistors Sales Forecast by Country (2025-2032) & (K Units)

Table 119. Europe GaN Field-Effect Transistors Market Size Forecast by Country (2025-2032) & (M USD)

Table 120. Asia Pacific GaN Field-Effect Transistors Sales Forecast by Region (2025-2032) & (K Units)

Table 121. Asia Pacific GaN Field-Effect Transistors Market Size Forecast by Region (2025-2032) & (M USD)

Table 122. South America GaN Field-Effect Transistors Sales Forecast by Country (2025-2032) & (K Units)

Table 123. South America GaN Field-Effect Transistors Market Size Forecast by Country (2025-2032) & (M USD)

Table 124. Middle East and Africa GaN Field-Effect Transistors Consumption Forecast by Country (2025-2032) & (Units)

Table 125. Middle East and Africa GaN Field-Effect Transistors Market Size Forecast by Country (2025-2032) & (M USD)

Table 126. Global GaN Field-Effect Transistors Sales Forecast by Type (2025-2032) & (K Units)

Table 127. Global GaN Field-Effect Transistors Market Size Forecast by Type (2025-2032) & (M USD)

Table 128. Global GaN Field-Effect Transistors Price Forecast by Type (2025-2032) & (USD/Unit)

Table 129. Global GaN Field-Effect Transistors Sales (K Units) Forecast by Application (2025-2032)

Table 130. Global GaN Field-Effect Transistors Market Size Forecast by Application (2025-2032) & (M USD)

## List Of Figures

### LIST OF FIGURES

Figure 1. Product Picture of GaN Field-Effect Transistors

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global GaN Field-Effect Transistors Market Size (M USD), 2019-2032

Figure 5. Global GaN Field-Effect Transistors Market Size (M USD) (2019-2032)

Figure 6. Global GaN Field-Effect Transistors Sales (K Units) & (2019-2032)

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

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

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. GaN Field-Effect Transistors Market Size by Country (M USD)

Figure 11. GaN Field-Effect Transistors Sales Share by Manufacturers in 2023

Figure 12. Global GaN Field-Effect Transistors Revenue Share by Manufacturers in 2023

Figure 13. GaN Field-Effect Transistors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023

Figure 14. Global Market GaN Field-Effect Transistors Average Price (USD/Unit) of Key Manufacturers in 2023

Figure 15. The Global 5 and 10 Largest Players: Market Share by GaN Field-Effect Transistors Revenue in 2023

Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 17. Global GaN Field-Effect Transistors Market Share by Type

Figure 18. Sales Market Share of GaN Field-Effect Transistors by Type (2019-2024)

Figure 19. Sales Market Share of GaN Field-Effect Transistors by Type in 2023

Figure 20. Market Size Share of GaN Field-Effect Transistors by Type (2019-2024)

Figure 21. Market Size Market Share of GaN Field-Effect Transistors by Type in 2023

Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 23. Global GaN Field-Effect Transistors Market Share by Application

Figure 24. Global GaN Field-Effect Transistors Sales Market Share by Application (2019-2024)

Figure 25. Global GaN Field-Effect Transistors Sales Market Share by Application in 2023

Figure 26. Global GaN Field-Effect Transistors Market Share by Application (2019-2024)

Figure 27. Global GaN Field-Effect Transistors Market Share by Application in 2023

Figure 28. Global GaN Field-Effect Transistors Sales Growth Rate by Application

(2019-2024)

Figure 29. Global GaN Field-Effect Transistors Sales Market Share by Region

(2019-2024)

Figure 30. North America GaN Field-Effect Transistors Sales and Growth Rate

(2019-2024) & (K Units)

Figure 31. North America GaN Field-Effect Transistors Sales Market Share by Country in 2023

Figure 32. U.S. GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada GaN Field-Effect Transistors Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico GaN Field-Effect Transistors Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe GaN Field-Effect Transistors Sales Market Share by Country in 2023

Figure 37. Germany GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific GaN Field-Effect Transistors Sales and Growth Rate (K Units)

Figure 43. Asia Pacific GaN Field-Effect Transistors Sales Market Share by Region in 2023

Figure 44. China GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America GaN Field-Effect Transistors Sales and Growth Rate (K Units)

Figure 50. South America GaN Field-Effect Transistors Sales Market Share by Country in 2023

Figure 51. Brazil GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa GaN Field-Effect Transistors Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa GaN Field-Effect Transistors Sales Market Share by Region in 2023

Figure 56. Saudi Arabia GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa GaN Field-Effect Transistors Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global GaN Field-Effect Transistors Production Market Share by Region (2019-2024)

Figure 62. North America GaN Field-Effect Transistors Production (K Units) Growth Rate (2019-2024)

Figure 63. Europe GaN Field-Effect Transistors Production (K Units) Growth Rate (2019-2024)

Figure 64. Japan GaN Field-Effect Transistors Production (K Units) Growth Rate (2019-2024)

Figure 65. China GaN Field-Effect Transistors Production (K Units) Growth Rate (2019-2024)

Figure 66. Global GaN Field-Effect Transistors Sales Forecast by Volume (2019-2032) & (K Units)

Figure 67. Global GaN Field-Effect Transistors Market Size Forecast by Value (2019-2032) & (M USD)

Figure 68. Global GaN Field-Effect Transistors Sales Market Share Forecast by Type

(2025-2032)

Figure 69. Global GaN Field-Effect Transistors Market Share Forecast by Type

(2025-2032)

Figure 70. Global GaN Field-Effect Transistors Sales Forecast by Application

(2025-2032)

Figure 71. Global GaN Field-Effect Transistors Market Share Forecast by Application

(2025-2032)

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