

# Global GaN Power IC Design Market Research Report 2026(Status and Outlook)

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## Abstracts

GaN, a wide bandgap semiconductor material featuring high-frequency and low on-resistance, has become the centerpiece in the ongoing revolution of the power semiconductor industry. In semiconductor industry, there are two models: IDM model and Fabless model. IDM model enables in-house control of the entire process from design, manufacturing to testing. With an integrated operational framework, the IDM model offers unmatched coordination and synergy while ensuring the quality of power semiconductor products. It provides stable production capacities, enables swift innovation through synergistic design and process iterations and supports cost-effective scaling. While advanced process technologies significantly enhance digital chip performance, the functionality of analog chips ? especially power semiconductor chips ? largely hinges on the intrinsic properties of the semiconductor materials employed. Different materials have distinct bandgap, carrier mobility, electrical and thermal conductivity and other properties, resulting in varied performance and applications. As a result, the IDM model, which enables in-house control of the entire process from design, manufacturing to testing, has been the mainstream operational framework in the broader power semiconductor industry. The global top five power semiconductor companies all adopted the IDM model. In the rapidly evolving GaN power semiconductor industry, this model continues to prove to be the most effective. This report studies the GaN power IC design, including the including IDM and fabless. The fabless business model still dominates the power GaN ecosystem in 2023, but some fabless companies are expected to be acquired by IDMs. The typical IDMs include Innoscience, Infineon (GaN Systems), Wolfspeed, STMicroelectronics, Renesas Electronics (Transphorm), Texas Instruments, Epistar Corp., China Resources Microelectronics Limited, CorEnergy, Dynax Semiconductor, Sanan Optoelectronics, Rohm, etc.

The global GaN Power IC Design market size was estimated at USD 2245.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 15.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global GaN Power IC Design market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global GaN Power IC Design market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the GaN Power IC Design market.

### **Global GaN Power IC Design Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

## **Key Company**

Infineon (GaN Systems)  
STMicroelectronics  
Texas Instruments  
onsemi  
Microchip Technology  
Rohm  
NXP Semiconductors  
Toshiba  
Innoscence  
Wolfspeed, Inc  
Renesas Electronics (Transphorm)  
Sumitomo Electric Device Innovations (SEDI) (SCIOCS)  
Alpha and Omega Semiconductor Limited (AOS)  
Nexperia  
Epistar Corp.  
Qorvo  
Navitas Semiconductor  
Power Integrations, Inc.  
Efficient Power Conversion Corporation (EPC)  
MACOM  
VisiC Technologies  
Cambridge GaN Devices (CGD)  
Wise Integration  
RFHIC Corporation  
Ampleon  
GaNnext  
Chengdu DanXi Technology  
Southchip Semiconductor Technology  
Panasonic  
Toyoda Gosei

## **Market Segmentation (by Type)**

Power GaN IDM  
Power GaN Fabless

## **Market Segmentation (by Application)**

GaN Power Devices

GaN RF Devices

## **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 Power IC Design Market

Overview of the regional outlook of the GaN Power IC Design Market:

## **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 Power IC Design 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 shares the main producing countries of GaN Power IC Design, 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 in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

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

## **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**

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## Contents

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

- 1.1 Market Definition and Statistical Scope of GaN Power IC Design
- 1.2 Key Market Segments
  - 1.2.1 GaN Power IC Design Segment by Type
  - 1.2.2 GaN Power IC Design 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 POWER IC DESIGN MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global GaN Power IC Design Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global GaN Power IC Design Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 GAN POWER IC DESIGN MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global GaN Power IC Design Product Life Cycle
- 3.3 Global GaN Power IC Design Sales by Manufacturers (2020-2025)
- 3.4 Global GaN Power IC Design Revenue Market Share by Manufacturers (2020-2025)
- 3.5 GaN Power IC Design Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global GaN Power IC Design Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 GaN Power IC Design Market Competitive Situation and Trends
  - 3.8.1 GaN Power IC Design Market Concentration Rate
  - 3.8.2 Global 5 and 10 Largest GaN Power IC Design Players Market Share by Revenue
  - 3.8.3 Mergers & Acquisitions, Expansion

## **4 GAN POWER IC DESIGN INDUSTRY CHAIN ANALYSIS**

- 4.1 GaN Power IC Design 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 POWER IC DESIGN MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global GaN Power IC Design Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to GaN Power IC Design Market
- 5.7 ESG Ratings of Leading Companies

## **6 GAN POWER IC DESIGN MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global GaN Power IC Design Sales Market Share by Type (2020-2025)
- 6.3 Global GaN Power IC Design Market Size by Type (2020-2025)
- 6.4 Global GaN Power IC Design Price by Type (2020-2025)

## **7 GAN POWER IC DESIGN MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global GaN Power IC Design Market Sales by Application (2020-2025)

7.3 Global GaN Power IC Design Market Size (M USD) by Application (2020-2025)

7.4 Global GaN Power IC Design Sales Growth Rate by Application (2020-2025)

## **8 GAN POWER IC DESIGN MARKET SALES BY REGION**

8.1 Global GaN Power IC Design Sales by Region

8.1.1 Global GaN Power IC Design Sales by Region

8.1.2 Global GaN Power IC Design Sales Market Share by Region

8.2 Global GaN Power IC Design Market Size by Region

8.2.1 Global GaN Power IC Design Market Size by Region

8.2.2 Global GaN Power IC Design Market Size by Region

8.3 North America

8.3.1 North America GaN Power IC Design Sales by Country

8.3.2 North America GaN Power IC Design Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe GaN Power IC Design Sales by Country

8.4.2 Europe GaN Power IC Design Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific GaN Power IC Design Sales by Region

8.5.2 Asia Pacific GaN Power IC Design Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America GaN Power IC Design Sales by Country

8.6.2 South America GaN Power IC Design Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

## 8.7 Middle East and Africa

- 8.7.1 Middle East and Africa GaN Power IC Design Sales by Region
- 8.7.2 Middle East and Africa GaN Power IC Design Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

## 9 GAN POWER IC DESIGN MARKET PRODUCTION BY REGION

- 9.1 Global Production of GaN Power IC Design by Region(2020-2025)
- 9.2 Global GaN Power IC Design Revenue Market Share by Region (2020-2025)
- 9.3 Global GaN Power IC Design Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America GaN Power IC Design Production
  - 9.4.1 North America GaN Power IC Design Production Growth Rate (2020-2025)
  - 9.4.2 North America GaN Power IC Design Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe GaN Power IC Design Production
  - 9.5.1 Europe GaN Power IC Design Production Growth Rate (2020-2025)
  - 9.5.2 Europe GaN Power IC Design Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan GaN Power IC Design Production (2020-2025)
  - 9.6.1 Japan GaN Power IC Design Production Growth Rate (2020-2025)
  - 9.6.2 Japan GaN Power IC Design Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China GaN Power IC Design Production (2020-2025)
  - 9.7.1 China GaN Power IC Design Production Growth Rate (2020-2025)
  - 9.7.2 China GaN Power IC Design Production, Revenue, Price and Gross Margin (2020-2025)

## 10 KEY COMPANIES PROFILE

- 10.1 Infineon (GaN Systems)
  - 10.1.1 Infineon (GaN Systems) Basic Information
  - 10.1.2 Infineon (GaN Systems) GaN Power IC Design Product Overview
  - 10.1.3 Infineon (GaN Systems) GaN Power IC Design Product Market Performance
  - 10.1.4 Infineon (GaN Systems) Business Overview

- 10.1.5 Infineon (GaN Systems) SWOT Analysis
- 10.1.6 Infineon (GaN Systems) Recent Developments
- 10.2 STMicroelectronics
  - 10.2.1 STMicroelectronics Basic Information
  - 10.2.2 STMicroelectronics GaN Power IC Design Product Overview
  - 10.2.3 STMicroelectronics GaN Power IC Design Product Market Performance
  - 10.2.4 STMicroelectronics Business Overview
  - 10.2.5 STMicroelectronics SWOT Analysis
  - 10.2.6 STMicroelectronics Recent Developments
- 10.3 Texas Instruments
  - 10.3.1 Texas Instruments Basic Information
  - 10.3.2 Texas Instruments GaN Power IC Design Product Overview
  - 10.3.3 Texas Instruments GaN Power IC Design Product Market Performance
  - 10.3.4 Texas Instruments Business Overview
  - 10.3.5 Texas Instruments SWOT Analysis
  - 10.3.6 Texas Instruments Recent Developments
- 10.4 onsemi
  - 10.4.1 onsemi Basic Information
  - 10.4.2 onsemi GaN Power IC Design Product Overview
  - 10.4.3 onsemi GaN Power IC Design Product Market Performance
  - 10.4.4 onsemi Business Overview
  - 10.4.5 onsemi Recent Developments
- 10.5 Microchip Technology
  - 10.5.1 Microchip Technology Basic Information
  - 10.5.2 Microchip Technology GaN Power IC Design Product Overview
  - 10.5.3 Microchip Technology GaN Power IC Design Product Market Performance
  - 10.5.4 Microchip Technology Business Overview
  - 10.5.5 Microchip Technology Recent Developments
- 10.6 Rohm
  - 10.6.1 Rohm Basic Information
  - 10.6.2 Rohm GaN Power IC Design Product Overview
  - 10.6.3 Rohm GaN Power IC Design Product Market Performance
  - 10.6.4 Rohm Business Overview
  - 10.6.5 Rohm Recent Developments
- 10.7 NXP Semiconductors
  - 10.7.1 NXP Semiconductors Basic Information
  - 10.7.2 NXP Semiconductors GaN Power IC Design Product Overview
  - 10.7.3 NXP Semiconductors GaN Power IC Design Product Market Performance
  - 10.7.4 NXP Semiconductors Business Overview

- 10.7.5 NXP Semiconductors Recent Developments
- 10.8 Toshiba
  - 10.8.1 Toshiba Basic Information
  - 10.8.2 Toshiba GaN Power IC Design Product Overview
  - 10.8.3 Toshiba GaN Power IC Design Product Market Performance
  - 10.8.4 Toshiba Business Overview
  - 10.8.5 Toshiba Recent Developments
- 10.9 Innoscience
  - 10.9.1 Innoscience Basic Information
  - 10.9.2 Innoscience GaN Power IC Design Product Overview
  - 10.9.3 Innoscience GaN Power IC Design Product Market Performance
  - 10.9.4 Innoscience Business Overview
  - 10.9.5 Innoscience Recent Developments
- 10.10 Wolfspeed, Inc
  - 10.10.1 Wolfspeed, Inc Basic Information
  - 10.10.2 Wolfspeed, Inc GaN Power IC Design Product Overview
  - 10.10.3 Wolfspeed, Inc GaN Power IC Design Product Market Performance
  - 10.10.4 Wolfspeed, Inc Business Overview
  - 10.10.5 Wolfspeed, Inc Recent Developments
- 10.11 Renesas Electronics (Transphorm)
  - 10.11.1 Renesas Electronics (Transphorm) Basic Information
  - 10.11.2 Renesas Electronics (Transphorm) GaN Power IC Design Product Overview
  - 10.11.3 Renesas Electronics (Transphorm) GaN Power IC Design Product Market Performance
  - 10.11.4 Renesas Electronics (Transphorm) Business Overview
  - 10.11.5 Renesas Electronics (Transphorm) Recent Developments
- 10.12 Sumitomo Electric Device Innovations (SEDI) (SCIOCS)
  - 10.12.1 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Basic Information
  - 10.12.2 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) GaN Power IC Design Product Overview
  - 10.12.3 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) GaN Power IC Design Product Market Performance
  - 10.12.4 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Business Overview
  - 10.12.5 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Recent Developments
- 10.13 Alpha and Omega Semiconductor Limited (AOS)
  - 10.13.1 Alpha and Omega Semiconductor Limited (AOS) Basic Information
  - 10.13.2 Alpha and Omega Semiconductor Limited (AOS) GaN Power IC Design Product Overview

10.13.3 Alpha and Omega Semiconductor Limited (AOS) GaN Power IC Design Product Market Performance

10.13.4 Alpha and Omega Semiconductor Limited (AOS) Business Overview

10.13.5 Alpha and Omega Semiconductor Limited (AOS) Recent Developments

10.14 Nexperia

10.14.1 Nexperia Basic Information

10.14.2 Nexperia GaN Power IC Design Product Overview

10.14.3 Nexperia GaN Power IC Design Product Market Performance

10.14.4 Nexperia Business Overview

10.14.5 Nexperia Recent Developments

10.15 Epistar Corp.

10.15.1 Epistar Corp. Basic Information

10.15.2 Epistar Corp. GaN Power IC Design Product Overview

10.15.3 Epistar Corp. GaN Power IC Design Product Market Performance

10.15.4 Epistar Corp. Business Overview

10.15.5 Epistar Corp. Recent Developments

10.16 Qorvo

10.16.1 Qorvo Basic Information

10.16.2 Qorvo GaN Power IC Design Product Overview

10.16.3 Qorvo GaN Power IC Design Product Market Performance

10.16.4 Qorvo Business Overview

10.16.5 Qorvo Recent Developments

10.17 Navitas Semiconductor

10.17.1 Navitas Semiconductor Basic Information

10.17.2 Navitas Semiconductor GaN Power IC Design Product Overview

10.17.3 Navitas Semiconductor GaN Power IC Design Product Market Performance

10.17.4 Navitas Semiconductor Business Overview

10.17.5 Navitas Semiconductor Recent Developments

10.18 Power Integrations, Inc.

10.18.1 Power Integrations, Inc. Basic Information

10.18.2 Power Integrations, Inc. GaN Power IC Design Product Overview

10.18.3 Power Integrations, Inc. GaN Power IC Design Product Market Performance

10.18.4 Power Integrations, Inc. Business Overview

10.18.5 Power Integrations, Inc. Recent Developments

10.19 Efficient Power Conversion Corporation (EPC)

10.19.1 Efficient Power Conversion Corporation (EPC) Basic Information

10.19.2 Efficient Power Conversion Corporation (EPC) GaN Power IC Design Product Overview

10.19.3 Efficient Power Conversion Corporation (EPC) GaN Power IC Design Product

## Market Performance

- 10.19.4 Efficient Power Conversion Corporation (EPC) Business Overview
- 10.19.5 Efficient Power Conversion Corporation (EPC) Recent Developments

## 10.20 MACOM

- 10.20.1 MACOM Basic Information
- 10.20.2 MACOM GaN Power IC Design Product Overview
- 10.20.3 MACOM GaN Power IC Design Product Market Performance
- 10.20.4 MACOM Business Overview
- 10.20.5 MACOM Recent Developments

## 10.21 VisIC Technologies

- 10.21.1 VisIC Technologies Basic Information
- 10.21.2 VisIC Technologies GaN Power IC Design Product Overview
- 10.21.3 VisIC Technologies GaN Power IC Design Product Market Performance
- 10.21.4 VisIC Technologies Business Overview
- 10.21.5 VisIC Technologies Recent Developments

## 10.22 Cambridge GaN Devices (CGD)

- 10.22.1 Cambridge GaN Devices (CGD) Basic Information
- 10.22.2 Cambridge GaN Devices (CGD) GaN Power IC Design Product Overview
- 10.22.3 Cambridge GaN Devices (CGD) GaN Power IC Design Product Market

## Performance

- 10.22.4 Cambridge GaN Devices (CGD) Business Overview
- 10.22.5 Cambridge GaN Devices (CGD) Recent Developments

## 10.23 Wise Integration

- 10.23.1 Wise Integration Basic Information
- 10.23.2 Wise Integration GaN Power IC Design Product Overview
- 10.23.3 Wise Integration GaN Power IC Design Product Market Performance
- 10.23.4 Wise Integration Business Overview
- 10.23.5 Wise Integration Recent Developments

## 10.24 RFHIC Corporation

- 10.24.1 RFHIC Corporation Basic Information
- 10.24.2 RFHIC Corporation GaN Power IC Design Product Overview
- 10.24.3 RFHIC Corporation GaN Power IC Design Product Market Performance
- 10.24.4 RFHIC Corporation Business Overview
- 10.24.5 RFHIC Corporation Recent Developments

## 10.25 Ampleon

- 10.25.1 Ampleon Basic Information
- 10.25.2 Ampleon GaN Power IC Design Product Overview
- 10.25.3 Ampleon GaN Power IC Design Product Market Performance
- 10.25.4 Ampleon Business Overview

- 10.25.5 Ampleon Recent Developments
- 10.26 GaNext
  - 10.26.1 GaNext Basic Information
  - 10.26.2 GaNext GaN Power IC Design Product Overview
  - 10.26.3 GaNext GaN Power IC Design Product Market Performance
  - 10.26.4 GaNext Business Overview
  - 10.26.5 GaNext Recent Developments
- 10.27 Chengdu DanXi Technology
  - 10.27.1 Chengdu DanXi Technology Basic Information
  - 10.27.2 Chengdu DanXi Technology GaN Power IC Design Product Overview
  - 10.27.3 Chengdu DanXi Technology GaN Power IC Design Product Market Performance
  - 10.27.4 Chengdu DanXi Technology Business Overview
  - 10.27.5 Chengdu DanXi Technology Recent Developments
- 10.28 Southchip Semiconductor Technology
  - 10.28.1 Southchip Semiconductor Technology Basic Information
  - 10.28.2 Southchip Semiconductor Technology GaN Power IC Design Product Overview
  - 10.28.3 Southchip Semiconductor Technology GaN Power IC Design Product Market Performance
  - 10.28.4 Southchip Semiconductor Technology Business Overview
  - 10.28.5 Southchip Semiconductor Technology Recent Developments
- 10.29 Panasonic
  - 10.29.1 Panasonic Basic Information
  - 10.29.2 Panasonic GaN Power IC Design Product Overview
  - 10.29.3 Panasonic GaN Power IC Design Product Market Performance
  - 10.29.4 Panasonic Business Overview
  - 10.29.5 Panasonic Recent Developments
- 10.30 Toyoda Gosei
  - 10.30.1 Toyoda Gosei Basic Information
  - 10.30.2 Toyoda Gosei GaN Power IC Design Product Overview
  - 10.30.3 Toyoda Gosei GaN Power IC Design Product Market Performance
  - 10.30.4 Toyoda Gosei Business Overview
  - 10.30.5 Toyoda Gosei Recent Developments

## **11 GAN POWER IC DESIGN MARKET FORECAST BY REGION**

- 11.1 Global GaN Power IC Design Market Size Forecast
- 11.2 Global GaN Power IC Design Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe GaN Power IC Design Market Size Forecast by Country
- 11.2.3 Asia Pacific GaN Power IC Design Market Size Forecast by Region
- 11.2.4 South America GaN Power IC Design Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of GaN Power IC Design by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

- 12.1 Global GaN Power IC Design Market Forecast by Type (2026-2035)
  - 12.1.1 Global Forecasted Sales of GaN Power IC Design by Type (2026-2035)
  - 12.1.2 Global GaN Power IC Design Market Size Forecast by Type (2026-2035)
  - 12.1.3 Global Forecasted Price of GaN Power IC Design by Type (2026-2035)
- 12.2 Global GaN Power IC Design Market Forecast by Application (2026-2035)
  - 12.2.1 Global GaN Power IC Design Sales (K Units) Forecast by Application
  - 12.2.2 Global GaN Power IC Design Market Size (M USD) Forecast by Application (2026-2035)

## **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. Global GaN Power IC Design Market Size by Type (M USD)
- Table 4. Global GaN Power IC Design Market Size by Application
- Table 5. GaN Power IC Design Market Size Comparison by Region (M USD)
- Table 6. Global GaN Power IC Design Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global GaN Power IC Design Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global GaN Power IC Design Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global GaN Power IC Design Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in GaN Power IC Design as of 2025)
- Table 11. Global Market GaN Power IC Design Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global GaN Power IC Design Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- 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 Power IC Design Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global GaN Power IC Design Sales by Type (K Units)
- Table 27. Global GaN Power IC Design Market Size by Type (M USD)
- Table 28. Global GaN Power IC Design Sales (K Units) by Type (2020-2025)
- Table 29. Global GaN Power IC Design Sales Market Share by Type (2020-2025)

- Table 30. Global GaN Power IC Design Market Size (M USD) by Type (2020-2025)
- Table 31. Global GaN Power IC Design Market Share by Type (2020-2025)
- Table 32. Global GaN Power IC Design Price (USD/Unit) by Type (2020-2025)
- Table 33. Global GaN Power IC Design Sales (K Units) by Application
- Table 34. Global GaN Power IC Design Market Size by Application
- Table 35. Global GaN Power IC Design Sales by Application (2020-2025) & (K Units)
- Table 36. Global GaN Power IC Design Sales Market Share by Application (2020-2025)
- Table 37. Global GaN Power IC Design Market Size by Application (2020-2025) & (M USD)
- Table 38. Global GaN Power IC Design Market Share by Application (2020-2025)
- Table 39. Global GaN Power IC Design Sales Growth Rate by Application (2020-2025)
- Table 40. Global GaN Power IC Design Sales by Region (2020-2025) & (K Units)
- Table 41. Global GaN Power IC Design Sales Market Share by Region (2020-2025)
- Table 42. Global GaN Power IC Design Market Size by Region (2020-2025) & (M USD)
- Table 43. Global GaN Power IC Design Market Size by Region (2020-2025)
- Table 44. North America GaN Power IC Design Sales by Country (2020-2025) & (K Units)
- Table 45. North America GaN Power IC Design Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe GaN Power IC Design Sales by Country (2020-2025) & (K Units)
- Table 47. Europe GaN Power IC Design Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific GaN Power IC Design Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific GaN Power IC Design Market Size by Region (2020-2025) & (M USD)
- Table 50. South America GaN Power IC Design Sales by Country (2020-2025) & (K Units)
- Table 51. South America GaN Power IC Design Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa GaN Power IC Design Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa GaN Power IC Design Market Size by Region (2020-2025) & (M USD)
- Table 54. Global GaN Power IC Design Production (K Units) by Region(2020-2025)
- Table 55. Global GaN Power IC Design Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global GaN Power IC Design Revenue Market Share by Region (2020-2025)
- Table 57. Global GaN Power IC Design Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America GaN Power IC Design Production (K Units), Revenue (US\$

Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe GaN Power IC Design Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan GaN Power IC Design Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China GaN Power IC Design Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Infineon (GaN Systems) Basic Information

Table 63. Infineon (GaN Systems) GaN Power IC Design Product Overview

Table 64. Infineon (GaN Systems) GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Infineon (GaN Systems) Business Overview

Table 66. Infineon (GaN Systems) SWOT Analysis

Table 67. Infineon (GaN Systems) Recent Developments

Table 68. STMicroelectronics Basic Information

Table 69. STMicroelectronics GaN Power IC Design Product Overview

Table 70. STMicroelectronics GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. STMicroelectronics Business Overview

Table 72. STMicroelectronics SWOT Analysis

Table 73. STMicroelectronics Recent Developments

Table 74. Texas Instruments Basic Information

Table 75. Texas Instruments GaN Power IC Design Product Overview

Table 76. Texas Instruments GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Texas Instruments Business Overview

Table 78. Texas Instruments SWOT Analysis

Table 79. Texas Instruments Recent Developments

Table 80. onsemi Basic Information

Table 81. onsemi GaN Power IC Design Product Overview

Table 82. onsemi GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. onsemi Business Overview

Table 84. onsemi Recent Developments

Table 85. Microchip Technology Basic Information

Table 86. Microchip Technology GaN Power IC Design Product Overview

Table 87. Microchip Technology GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Microchip Technology Business Overview

Table 89. Microchip Technology Recent Developments

Table 90. Rohm Basic Information

Table 91. Rohm GaN Power IC Design Product Overview

Table 92. Rohm GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Rohm Business Overview

Table 94. Rohm Recent Developments

Table 95. NXP Semiconductors Basic Information

Table 96. NXP Semiconductors GaN Power IC Design Product Overview

Table 97. NXP Semiconductors GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. NXP Semiconductors Business Overview

Table 99. NXP Semiconductors Recent Developments

Table 100. Toshiba Basic Information

Table 101. Toshiba GaN Power IC Design Product Overview

Table 102. Toshiba GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Toshiba Business Overview

Table 104. Toshiba Recent Developments

Table 105. Innoscience Basic Information

Table 106. Innoscience GaN Power IC Design Product Overview

Table 107. Innoscience GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Innoscience Business Overview

Table 109. Innoscience Recent Developments

Table 110. Wolfspeed, Inc Basic Information

Table 111. Wolfspeed, Inc GaN Power IC Design Product Overview

Table 112. Wolfspeed, Inc GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Wolfspeed, Inc Business Overview

Table 114. Wolfspeed, Inc Recent Developments

Table 115. Renesas Electronics (Transphorm) Basic Information

Table 116. Renesas Electronics (Transphorm) GaN Power IC Design Product Overview

Table 117. Renesas Electronics (Transphorm) GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Renesas Electronics (Transphorm) Business Overview

Table 119. Renesas Electronics (Transphorm) Recent Developments

Table 120. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Basic Information

Table 121. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) GaN Power IC

## Design Product Overview

Table 122. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Business Overview

Table 124. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Recent Developments

Table 125. Alpha and Omega Semiconductor Limited (AOS) Basic Information

Table 126. Alpha and Omega Semiconductor Limited (AOS) GaN Power IC Design Product Overview

Table 127. Alpha and Omega Semiconductor Limited (AOS) GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 128. Alpha and Omega Semiconductor Limited (AOS) Business Overview

Table 129. Alpha and Omega Semiconductor Limited (AOS) Recent Developments

Table 130. Nexperia Basic Information

Table 131. Nexperia GaN Power IC Design Product Overview

Table 132. Nexperia GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 133. Nexperia Business Overview

Table 134. Nexperia Recent Developments

Table 135. Epistar Corp. Basic Information

Table 136. Epistar Corp. GaN Power IC Design Product Overview

Table 137. Epistar Corp. GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 138. Epistar Corp. Business Overview

Table 139. Epistar Corp. Recent Developments

Table 140. Qorvo Basic Information

Table 141. Qorvo GaN Power IC Design Product Overview

Table 142. Qorvo GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. Qorvo Business Overview

Table 144. Qorvo Recent Developments

Table 145. Navitas Semiconductor Basic Information

Table 146. Navitas Semiconductor GaN Power IC Design Product Overview

Table 147. Navitas Semiconductor GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 148. Navitas Semiconductor Business Overview

Table 149. Navitas Semiconductor Recent Developments

Table 150. Power Integrations, Inc. Basic Information

- Table 151. Power Integrations, Inc. GaN Power IC Design Product Overview
- Table 152. Power Integrations, Inc. GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 153. Power Integrations, Inc. Business Overview
- Table 154. Power Integrations, Inc. Recent Developments
- Table 155. Efficient Power Conversion Corporation (EPC) Basic Information
- Table 156. Efficient Power Conversion Corporation (EPC) GaN Power IC Design Product Overview
- Table 157. Efficient Power Conversion Corporation (EPC) GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 158. Efficient Power Conversion Corporation (EPC) Business Overview
- Table 159. Efficient Power Conversion Corporation (EPC) Recent Developments
- Table 160. MACOM Basic Information
- Table 161. MACOM GaN Power IC Design Product Overview
- Table 162. MACOM GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 163. MACOM Business Overview
- Table 164. MACOM Recent Developments
- Table 165. VisIC Technologies Basic Information
- Table 166. VisIC Technologies GaN Power IC Design Product Overview
- Table 167. VisIC Technologies GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 168. VisIC Technologies Business Overview
- Table 169. VisIC Technologies Recent Developments
- Table 170. Cambridge GaN Devices (CGD) Basic Information
- Table 171. Cambridge GaN Devices (CGD) GaN Power IC Design Product Overview
- Table 172. Cambridge GaN Devices (CGD) GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 173. Cambridge GaN Devices (CGD) Business Overview
- Table 174. Cambridge GaN Devices (CGD) Recent Developments
- Table 175. Wise Integration Basic Information
- Table 176. Wise Integration GaN Power IC Design Product Overview
- Table 177. Wise Integration GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 178. Wise Integration Business Overview
- Table 179. Wise Integration Recent Developments
- Table 180. RFHIC Corporation Basic Information
- Table 181. RFHIC Corporation GaN Power IC Design Product Overview
- Table 182. RFHIC Corporation GaN Power IC Design Sales (K Units), Revenue (M

USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 183. RFHIC Corporation Business Overview

Table 184. RFHIC Corporation Recent Developments

Table 185. Ampleon Basic Information

Table 186. Ampleon GaN Power IC Design Product Overview

Table 187. Ampleon GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 188. Ampleon Business Overview

Table 189. Ampleon Recent Developments

Table 190. GaNext Basic Information

Table 191. GaNext GaN Power IC Design Product Overview

Table 192. GaNext GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 193. GaNext Business Overview

Table 194. GaNext Recent Developments

Table 195. Chengdu DanXi Technology Basic Information

Table 196. Chengdu DanXi Technology GaN Power IC Design Product Overview

Table 197. Chengdu DanXi Technology GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 198. Chengdu DanXi Technology Business Overview

Table 199. Chengdu DanXi Technology Recent Developments

Table 200. Southchip Semiconductor Technology Basic Information

Table 201. Southchip Semiconductor Technology GaN Power IC Design Product Overview

Table 202. Southchip Semiconductor Technology GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 203. Southchip Semiconductor Technology Business Overview

Table 204. Southchip Semiconductor Technology Recent Developments

Table 205. Panasonic Basic Information

Table 206. Panasonic GaN Power IC Design Product Overview

Table 207. Panasonic GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 208. Panasonic Business Overview

Table 209. Panasonic Recent Developments

Table 210. Toyoda Gosei Basic Information

Table 211. Toyoda Gosei GaN Power IC Design Product Overview

Table 212. Toyoda Gosei GaN Power IC Design Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 213. Toyoda Gosei Business Overview

Table 214. Toyoda Gosei Recent Developments

Table 215. Global GaN Power IC Design Sales Forecast by Region (2026-2035) & (K Units)

Table 216. Global GaN Power IC Design Market Size Forecast by Region (2026-2035) & (M USD)

Table 217. North America GaN Power IC Design Sales Forecast by Country (2026-2035) & (K Units)

Table 218. North America GaN Power IC Design Market Size Forecast by Country (2026-2035) & (M USD)

Table 219. Europe GaN Power IC Design Sales Forecast by Country (2026-2035) & (K Units)

Table 220. Europe GaN Power IC Design Market Size Forecast by Country (2026-2035) & (M USD)

Table 221. Asia Pacific GaN Power IC Design Sales Forecast by Region (2026-2035) & (K Units)

Table 222. Asia Pacific GaN Power IC Design Market Size Forecast by Region (2026-2035) & (M USD)

Table 223. South America GaN Power IC Design Sales Forecast by Country (2026-2035) & (K Units)

Table 224. South America GaN Power IC Design Market Size Forecast by Country (2026-2035) & (M USD)

Table 225. Middle East and Africa GaN Power IC Design Sales Forecast by Country (2026-2035) & (Units)

Table 226. Middle East and Africa GaN Power IC Design Market Size Forecast by Country (2026-2035) & (M USD)

Table 227. Global GaN Power IC Design Sales Forecast by Type (2026-2035) & (K Units)

Table 228. Global GaN Power IC Design Market Size Forecast by Type (2026-2035) & (M USD)

Table 229. Global GaN Power IC Design Price Forecast by Type (2026-2035) & (USD/Unit)

Table 230. Global GaN Power IC Design Sales (K Units) Forecast by Application (2026-2035)

Table 231. Global GaN Power IC Design Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of GaN Power IC Design
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global GaN Power IC Design Market Size (M USD), 2025-2035
- Figure 5. Global GaN Power IC Design Market Size (M USD) (2020-2035)
- Figure 6. Global GaN Power IC Design Sales (K Units) & (2020-2035)
- 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 Power IC Design Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global GaN Power IC Design Product Life Cycle
- Figure 13. GaN Power IC Design Sales Share by Manufacturers in 2025
- Figure 14. Global GaN Power IC Design Revenue Share by Manufacturers in 2025
- Figure 15. GaN Power IC Design Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market GaN Power IC Design Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by GaN Power IC Design Revenue in 2025
- Figure 18. Industry Chain Map of GaN Power IC Design
- Figure 19. Global GaN Power IC Design Market PEST Analysis
- Figure 20. Global GaN Power IC Design Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global GaN Power IC Design Market Share by Type
- Figure 27. Sales Market Share of GaN Power IC Design by Type (2020-2025)
- Figure 28. Sales Market Share of GaN Power IC Design by Type in 2025
- Figure 29. Market Share of GaN Power IC Design by Type (2020-2025)
- Figure 30. Market Share of GaN Power IC Design by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global GaN Power IC Design Market Share by Application

Figure 33. Global GaN Power IC Design Sales Market Share by Application (2020-2025)

Figure 34. Global GaN Power IC Design Sales Market Share by Application in 2025

Figure 35. Global GaN Power IC Design Market Share by Application (2020-2025)

Figure 36. Global GaN Power IC Design Market Share by Application in 2025

Figure 37. Global GaN Power IC Design Sales Growth Rate by Application (2020-2025)

Figure 38. Global GaN Power IC Design Sales Market Share by Region (2020-2025)

Figure 39. Global GaN Power IC Design Market Size by Region (2020-2025)

Figure 40. North America GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America GaN Power IC Design Sales Market Share by Country in 2024

Figure 43. North America GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America GaN Power IC Design Market Size by Country in 2024

Figure 45. U.S. GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada GaN Power IC Design Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada GaN Power IC Design Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico GaN Power IC Design Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico GaN Power IC Design Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe GaN Power IC Design Sales Market Share by Country in 2024

Figure 53. Europe GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe GaN Power IC Design Market Size by Country in 2024

Figure 55. Germany GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France GaN Power IC Design Market Size and Growth Rate (2020-2025) &

(M USD)

Figure 59. U.K. GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific GaN Power IC Design Sales and Growth Rate (K Units)

Figure 66. Asia Pacific GaN Power IC Design Sales Market Share by Region in 2024

Figure 67. Asia Pacific GaN Power IC Design Market Size by Region in 2024

Figure 68. China GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America GaN Power IC Design Sales and Growth Rate (K Units)

Figure 79. South America GaN Power IC Design Sales Market Share by Country in 2024

Figure 80. South America GaN Power IC Design Market Size and Growth Rate (M USD)

Figure 81. South America GaN Power IC Design Market Size by Country in 2024

Figure 82. Brazil GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

USD)

Figure 84. Argentina GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa GaN Power IC Design Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa GaN Power IC Design Sales Market Share by Region in 2024

Figure 90. Middle East and Africa GaN Power IC Design Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa GaN Power IC Design Market Size by Region in 2024

Figure 92. Saudi Arabia GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa GaN Power IC Design Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa GaN Power IC Design Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global GaN Power IC Design Production Market Share by Region (2020-2025)

Figure 103. North America GaN Power IC Design Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe GaN Power IC Design Production (K Units) Growth Rate

(2020-2025)

Figure 105. Japan GaN Power IC Design Production (K Units) Growth Rate

(2020-2025)

Figure 106. China GaN Power IC Design Production (K Units) Growth Rate (2020-2025)

Figure 107. Global GaN Power IC Design Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global GaN Power IC Design Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global GaN Power IC Design Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global GaN Power IC Design Market Share Forecast by Type (2026-2035)

Figure 111. Global GaN Power IC Design Sales Forecast by Application (2026-2035)

Figure 112. Global GaN Power IC Design Market Share Forecast by Application (2026-2035)

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