

# Global GaN on SiC Power Amplifier Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global GaN on SiC Power Amplifier market size was valued at USD 680 million in 2023 and is forecast to a readjusted size of USD 1460.8 million by 2030 with a CAGR of 11.5% during review period.

A power amplifier is an electronic amplifier designed to increase the magnitude of power of a given input signal. The power of the input signal is increased to a level high enough to drive loads of output devices like RF transmitters etc. Unlike voltage/current amplifiers, a power amplifier is designed to drive loads directly and is used as a final block in an amplifier chain.

GaN on SiC has the highest power density to generate high linear output power with high efficiency. GaN on SiC power amplifiers can operate at high frequencies in the Ka, Ku band from 12 GHz to 40 GHz for satellite communication, 5G and have broad bandwidths, high gain with better thermal properties meeting the requirements of RF applications.

Global 5 largest manufacturers of GaN on SiC Power Amplifier are Qorvo, Wolfspeed, Microchip Technology, CETC13 and CETC55, which make up over 80%. Among them, Qorvo is the leader with about 25% market share.

North America is the largest market, with a share about 50%, followed by Europe and Asia-Pacific, with the share about 20% and 27%. In terms of product type, Low Power occupies the largest share of the total market, about 60%. And in terms of application, the largest application is Defense & Aerospace, followed by Satellite.

The Global Info Research report includes an overview of the development of the GaN on SiC Power Amplifier industry chain, the market status of Satellite (Low Power, High Power), 5G/Wireless Communications (Low Power, High Power), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of GaN on SiC Power Amplifier.

Regionally, the report analyzes the GaN on SiC Power Amplifier markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global GaN on SiC Power Amplifier market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the GaN on SiC Power Amplifier market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the GaN on SiC Power Amplifier industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Low Power, High Power).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the GaN on SiC Power Amplifier market.

**Regional Analysis:** The report involves examining the GaN on SiC Power Amplifier market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the GaN on SiC Power Amplifier market. This may include estimating market growth rates, predicting market demand, and identifying emerging

trends.

The report also involves a more granular approach to GaN on SiC Power Amplifier:

**Company Analysis:** Report covers individual GaN on SiC Power Amplifier manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards GaN on SiC Power Amplifier. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Satellite, 5G/Wireless Communications).

**Technology Analysis:** Report covers specific technologies relevant to GaN on SiC Power Amplifier. It assesses the current state, advancements, and potential future developments in GaN on SiC Power Amplifier areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the GaN on SiC Power Amplifier market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

GaN on SiC Power Amplifier market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Low Power

High Power

## Market segment by Application

Satellite

5G/Wireless Communications

Defense & Aerospace

## Major players covered

Qorvo

Wolfspeed

Microchip Technology

CETC13

CETC55

RFHIC

MACOM

Altum RF

ReliaSat (Arralis)

## Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe GaN on SiC Power Amplifier product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN on SiC Power Amplifier, with price, sales, revenue and global market share of GaN on SiC Power Amplifier from 2019 to 2024.

Chapter 3, the GaN on SiC Power Amplifier competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN on SiC Power Amplifier breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and GaN on SiC Power Amplifier market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of GaN on SiC Power Amplifier.

Chapter 14 and 15, to describe GaN on SiC Power Amplifier sales channel, distributors, customers, research findings and conclusion.

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