

# Global GaN-on-SiC Power Amplifier Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global GaN-on-SiC Power Amplifier market size will reach 1,085.52 Million USD in 2025 and is projected to reach 2,383.29 Million USD by 2032, with a CAGR of 11.89% (2025-2032). Notably, the China GaN-on-SiC Power Amplifier market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A GaN-on-SiC power amplifier is a type of electronic amplifier that uses Gallium Nitride (GaN) technology deposited on a Silicon Carbide (SiC) substrate. This amplifier is designed to amplify radio frequency (RF) signals in high-power applications, such as wireless communication systems, radar systems, and satellite communication. GaN-on-SiC technology offers several advantages over traditional amplifier technologies, including high power density, high efficiency, and high frequency operation. The SiC substrate provides excellent thermal conductivity, allowing for efficient heat dissipation, while the GaN material offers high electron mobility and breakdown voltage, enabling the amplifier to operate at higher frequencies and deliver greater power output with minimal loss. GaN-on-SiC power amplifiers are widely used in military and aerospace applications, as well as in commercial wireless infrastructure, due to their superior performance and reliability.

The major global manufacturers of GaN-on-SiC Power Amplifier include Qorvo, Wolfspeed, Microchip Technology, CETC13, CETC55, RFHIC, MACOM, Altum RF,

ReliaSat (Arralis), etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of GaN-on-SiC Power Amplifier. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global GaN-on-SiC Power Amplifier market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the GaN-on-SiC Power Amplifier market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of GaN-on-SiC Power Amplifier industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of GaN-on-SiC Power Amplifier Include:

Qorvo

Wolfspeed

Microchip Technology

CETC13

CETC55

RFHIC

MACOM

Altum RF

ReliaSat (Arralis)

GaN-on-SiC Power Amplifier Product Segment Include:

Low Power

High Power

GaN-on-SiC Power Amplifier Product Application Include:

Satellite

5G/Wireless Communications

Defense & Aerospace

## **Chapter Scope**

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