

# Global GaN on SiC Power Amplifier Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global GaN on SiC Power Amplifier market size is expected to reach \$ 1460.8 million by 2029, rising at a market growth of 11.5% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global GaN on SiC Power Amplifier production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GaN on SiC Power Amplifier, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of GaN on SiC Power Amplifier that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GaN on SiC Power Amplifier total production and demand, 2018-2029, (K Units)

Global GaN on SiC Power Amplifier total production value, 2018-2029, (USD Million)

Global GaN on SiC Power Amplifier production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global GaN on SiC Power Amplifier consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: GaN on SiC Power Amplifier domestic production, consumption, key domestic manufacturers and share

Global GaN on SiC Power Amplifier production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global GaN on SiC Power Amplifier production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global GaN on SiC Power Amplifier production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global GaN on SiC Power Amplifier market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Qorvo, Wolfspeed, Microchip Technology, CETC13, CETC55, RFHIC, MACOM, Altum RF and ReliaSat (Arralis), etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GaN on SiC Power Amplifier market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global GaN on SiC Power Amplifier Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GaN on SiC Power Amplifier Market, Segmentation by Type

Low Power

High Power

## Global GaN on SiC Power Amplifier Market, Segmentation by Application

Satellite

5G/Wireless Communications

Defense & Aerospace

### Companies Profiled:

Qorvo

Wolfspeed

Microchip Technology

CETC13

CETC55

RFHIC

MACOM

Altum RF

ReliaSat (Arralis)

### Key Questions Answered

1. How big is the global GaN on SiC Power Amplifier market?
2. What is the demand of the global GaN on SiC Power Amplifier market?
3. What is the year over year growth of the global GaN on SiC Power Amplifier market?
4. What is the production and production value of the global GaN on SiC Power

Amplifier market?

5. Who are the key producers in the global GaN on SiC Power Amplifier market?

6. What are the growth factors driving the market demand?

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