

# Global GaN RF Front End Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global GaN RF Front End market size is expected to reach \$ 4136.9 million by 2029, rising at a market growth of 19.1% CAGR during the forecast period (2023-2029).

Solid-state technologies such as gallium nitride (GaN) are transforming satellite communications. GaN's advantages of high RF power, low DC power consumption, high reliability and smaller size (reducing system weight) are opening new markets and revolutionizing RF front-ends in existing satellite communication applications. In this stable market, the trend toward higher frequencies finds a place for RF GaN in power amplifiers (PAs) for 5G network frequencies below 6GHz (sub-6Ghz). Gallium Nitride (GaN) technology continues to evolve, pushing the limits of what's possible through ever-increasing gains in power density, reliability, and shrinking size. GaN is no longer a defense/aerospace-only technology, enabling higher and higher frequencies in more complex applications such as phased arrays, radar, 5G base station transceivers, cable television (CATV), VSAT and Defense Communications.

This report studies the global GaN RF Front End production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GaN RF Front End, 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 RF Front End that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GaN RF Front End total production and demand, 2018-2029, (K Units)

Global GaN RF Front End total production value, 2018-2029, (USD Million)

Global GaN RF Front End production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global GaN RF Front End consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: GaN RF Front End domestic production, consumption, key domestic manufacturers and share

Global GaN RF Front End production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global GaN RF Front End production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global GaN RF Front End production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global GaN RF Front End 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 Qualcomm, Qorvo, Skyworks Solutions Inc., NXP, STMicroelectronics, Macom, Innoscience, Sumitomo Electric and Cree, 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 RF Front End 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 RF Front End Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global GaN RF Front End Market, Segmentation by Type

GaN-on-SiC

GaN-on-Si

GaN-on-Diamond

#### Global GaN RF Front End Market, Segmentation by Application

5G Radio Access Networks

Satellite Communications

Radar System

## Companies Profiled:

Qualcomm

Qorvo

Skyworks Solutions Inc.

NXP

STMicroelectronics

Macom

Innoscence

Sumitomo Electric

Cree

RFHIC

Win Semiconductors

Akash Systems

Texas Instruments

Infineon Technologies AG

Ampleon

Wolfspeed

ADI

Bowei Integrated Circuit Co., Ltd.

## Key Questions Answered

1. How big is the global GaN RF Front End market?
2. What is the demand of the global GaN RF Front End market?
3. What is the year over year growth of the global GaN RF Front End market?
4. What is the production and production value of the global GaN RF Front End market?
5. Who are the key producers in the global GaN RF Front End market?
6. What are the growth factors driving the market demand?

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