

Global GaN RF Front End Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global GaN RF Front End market size was valued at USD 1214.2 million in 2022 and is forecast to a readjusted size of USD 4136.9 million by 2029 with a CAGR of 19.1% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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 is a detailed and comprehensive analysis for global GaN RF Front End market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global GaN RF Front End market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global GaN RF Front End market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global GaN RF Front End market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global GaN RF Front End market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for GaN RF Front End

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report 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 and STMicroelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

GaN RF Front End market is split by Type and by Application. For the period

2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

GaN-on-SiC

GaN-on-Si

GaN-on-Diamond

Market segment by Application

5G Radio Access Networks

Satellite Communications

Radar System

Major players covered

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.

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 RF Front End product scope, market overview, market

estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN RF Front End, with price, sales, revenue and global market share of GaN RF Front End from 2018 to 2023.

Chapter 3, the GaN RF Front End competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN RF Front End breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022. and GaN RF Front End market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of GaN RF Front End.

Chapter 14 and 15, to describe GaN RF Front End sales channel, distributors, customers, research findings and conclusion.

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