

Global GaN Power FET IC Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/G3B314220C12EN.html>

Date: July 2024

Pages: 99

Price: US\$ 3,480.00 (Single User License)

ID: G3B314220C12EN

Abstracts

According to our (Global Info Research) latest study, the global GaN Power FET IC market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes. Gallium nitride (GaN) transistors offer fundamental advantages over silicon. In particular, the higher critical electrical field makes it very attractive for power semiconductor devices with outstanding specific dynamic on-state resistance and smaller capacitances compared to silicon MOSFETs, which makes GaN HEMTs great for high speed switching applications. Gallium nitride transistors can then be operated with reduced dead-times which results in higher efficiency and enables passive cooling. Operation at high switching frequencies allows the volume of passive components to shrink which improves GaN HEMTs reliability and overall power density.

This report is a detailed and comprehensive analysis for global GaN Power FET IC 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 Power FET IC market size and forecasts, in consumption value (\$ Million), sales quantity (K Pieces), and average selling prices (US\$/Piece), 2018-2029

Global GaN Power FET IC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pieces), and average selling prices (US\$/Piece), 2018-2029

Global GaN Power FET IC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pieces), and average selling prices (US\$/Piece), 2018-2029

Global GaN Power FET IC market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pieces), and ASP (US\$/Piece), 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 Power FET IC

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 Power FET IC 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 Texas Instruments, STMicroelectronics, Navitas Semiconductor, EPC and Nexperia, 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 Power FET IC 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

Low Voltage (100V, 150V)

600 & 650V

Others

Market segment by Application

Consumer

Industrial

Solar

UPS

Others

Major players covered

Texas Instruments

STMicroelectronics

Navitas Semiconductor

EPC

Nexperia

VisIC Technologies

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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 Power FET IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN Power FET IC, with price, sales, revenue and global market share of GaN Power FET IC from 2018 to 2023.

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

Chapter 4, the GaN Power FET IC 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 Power FET IC 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 Power FET IC.

Chapter 14 and 15, to describe GaN Power FET IC sales channel, distributors, customers, research findings and conclusion.

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