

# Global Gallium Arsenide High Electron Mobility Transistor Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

Gallium arsenide high electron mobility transistors are heterojunction field effect devices developed on the basis of gallium arsenide metal semiconductor field effect transistors. The device type is determined by factors such as the height of the Schottky barrier, the thickness of the barrier layer, and the doping concentration of the device. Under the zero-volt gate voltage of the enhanced device, the source-drain current is pinched off. As the gate voltage changes to the positive voltage, the source-drain current gradually increases; while for the depletion-type device, the source-drain current is turned on under the zero-volt gate voltage. As the gate voltage changes to a negative voltage, the source leakage current gradually decreases until it is cut off.

According to our (Global Info Research) latest study, the global Gallium Arsenide High Electron Mobility Transistor 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.

This report is a detailed and comprehensive analysis for global Gallium Arsenide High Electron Mobility Transistor 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 Gallium Arsenide High Electron Mobility Transistor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Gallium Arsenide High Electron Mobility Transistor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Gallium Arsenide High Electron Mobility Transistor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Gallium Arsenide High Electron Mobility Transistor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/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 Gallium Arsenide High Electron Mobility Transistor

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 Gallium Arsenide High Electron Mobility Transistor 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 Nexperia, Qorvo, Microchip Technology, Broadcom and Analog Devices, 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

Gallium Arsenide High Electron Mobility Transistor 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

Enhanced

Depletion

#### Market segment by Application

Mobile Phone

Communication Microwave Devices

Communication Signal Switcher

Others

#### Major players covered

Nexperia

Qorvo

Microchip Technology

Broadcom

Analog Devices

Infineon Technologies

Sumitomo Electric Industries

WIN Semiconductors

Sanan Optoelectronics

Sichuan Haite High-Tech

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 Gallium Arsenide High Electron Mobility Transistor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gallium Arsenide High Electron Mobility Transistor, with price, sales, revenue and global market share of Gallium Arsenide High Electron Mobility Transistor from 2018 to 2023.

Chapter 3, the Gallium Arsenide High Electron Mobility Transistor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gallium Arsenide High Electron Mobility Transistor 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 Gallium Arsenide High Electron Mobility Transistor 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 Gallium Arsenide High Electron Mobility Transistor.

Chapter 14 and 15, to describe Gallium Arsenide High Electron Mobility Transistor sales channel, distributors, customers, research findings and conclusion.

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