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Global Depletion-Mode GaN HEMT Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Depletion-Mode GaN HEMT market size was valued at US$ million in 2025 and is forecast to a readjusted size of US$ million by 2032 with a CAGR of %during review period.

Depletion-Mode GaN HEMT (High Electron Mobility Transistor) is a type of GaN transistor that operates in the depletion-mode, which means it is normally OFF and needs a negative voltage bias to turn ON the channel and allow current flow.In contrast to the normally-on (enhancement-mode) GaN HEMTs, which are naturally conducting without any gate bias, depletion-mode GaN HEMTs require a gate voltage to control the conductive channel. By applying a negative voltage to the gate electrode, the depletion-mode GaN HEMT creates a depletion region within the transistor channel, inhibiting current flow.

This report is a detailed and comprehensive analysis for global Depletion-Mode GaN HEMT 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 2025, are provided.

Key Features:

Global Depletion-Mode GaN HEMT market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit),

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2021-2032

Global Depletion-Mode GaN HEMT market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Depletion-Mode GaN HEMT market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Depletion-Mode GaN HEMT market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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 Depletion-Mode GaN HEMT

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 Depletion-Mode GaN HEMT market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon Technologies AG, Panasonic Corporation, Navitas Semiconductor, Efficient Power Conversion (EPC), Texas Instruments Inc, Microchip Technology Inc, Mitsubishi Electric Corporation, Qorvo Inc, Sumitomo Electric Industries, GaN Systems Inc, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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Depletion-Mode GaN HEMT market is split by Type and by Application. For the period 2021-2032, 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

Single-gate HEMTs

Dual-gate HEMTs

Multi-gate HEMTs

Others

Market segment by Application

Automotive

Renewable Energy

Telecommunications

Aerospace and Defense

Others

Major players covered

Infineon Technologies AG

Panasonic Corporation

Navitas Semiconductor

Efficient Power Conversion (EPC)

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Texas Instruments Inc

Microchip Technology Inc

Mitsubishi Electric Corporation

Qorvo Inc

Sumitomo Electric Industries

GaN Systems Inc

Wolfspeed

Transphorm Inc

MACOM Technology Solutions

Soitec Belgian NV

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:

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Chapter 1, to describe Depletion-Mode GaN HEMT product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Depletion-Mode GaN HEMT, with price, sales quantity, revenue, and global market share of Depletion-Mode GaN HEMT from 2021 to 2026.

Chapter 3, the Depletion-Mode GaN HEMT competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Depletion-Mode GaN HEMT breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026.and Depletion-Mode GaN HEMT market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Depletion-Mode GaN HEMT.

Chapter 14 and 15, to describe Depletion-Mode GaN HEMT sales channel, distributors, customers, research findings and conclusion.

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