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Global D-mode GaN Transistor 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 D-mode GaN Transistor 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.

“D-mode” refers to “Depletion-mode” GaN (gallium nitride) transistors. Depletion-mode GaN transistors are a type of field-effect transistor (FET) that operate based on the principle of channel depletion.In a depletion-mode GaN transistor, the channel between the source and drain regions is naturally conductive, without the need for an external voltage to turn it on. Hence, these transistors are normally ON by default and turn OFF when a negative voltage is applied to the gate terminal.

This report is a detailed and comprehensive analysis for global D-mode GaN 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 2025, are provided.

Key Features:

Global D-mode GaN Transistor market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

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Global D-mode GaN Transistor 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 D-mode GaN Transistor 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 D-mode GaN Transistor 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 D-mode GaN 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 D-mode GaN Transistor 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 EPC (Efficient Power Conversion), GaN Systems, Inc., Transphorm, Panasonic Corporation, Sumitomo Electric Industries, Navitas Semiconductor, Texas Instruments, Infineon Technologies, MACOM Technology Solutions, Microchip Technology, etc.

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

Market Segmentation

D-mode GaN Transistor market is split by Type and by Application. For the period

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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

Pseudomorphic HEMT (pHEMT)

E-mode HEMT

Market segment by Application

Telecommunications

Aerospace and Defense

Automotive Electronics

Industrial and Power Systems

Major players covered

EPC (Efficient Power Conversion)

GaN Systems, Inc.

Transphorm

Panasonic Corporation

Sumitomo Electric Industries

Navitas Semiconductor

Texas Instruments

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Infineon Technologies

MACOM Technology Solutions

Microchip Technology

Wolfspeed (Cree)

Cree/Wolfspeed

Qorvo

ROHM Semiconductor

United Silicon Carbide Inc

Mitsubishi Electric Corporation

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 D-mode GaN Transistor product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the D-mode GaN Transistor 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 D-mode GaN Transistor 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 D-mode GaN Transistor.

Chapter 14 and 15, to describe D-mode GaN Transistor sales channel, distributors, customers, research findings and conclusion.

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