

Global Automotive GaN Devices 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 Automotive GaN Devices market size was valued at US\$ 74.47 million in 2025 and is forecast to a readjusted size of US\$ 18400 million by 2032 with a CAGR of 121.1% during review period.

Automotive GaN Devices are a class of high-performance power devices designed specifically for automotive applications that take advantage of the wide-band gap properties of gallium nitride materials to achieve greater energy efficiency and smaller size. These devices play a key role in electric and hybrid vehicles, especially in areas such as on-board chargers, inverters, DC-DC converters, and advanced driver assistance systems (ADAS). The high frequency and high efficiency characteristics of on-board gallium nitride semiconductors help improve vehicle performance, reduce energy consumption, and drive the development of vehicles in a greener and smarter direction.

This report is a detailed and comprehensive analysis for global Automotive GaN Devices 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 Automotive GaN Devices market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive GaN Devices 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 Automotive GaN Devices 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 Automotive GaN Devices 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 Automotive GaN Devices

- 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 Automotive GaN Devices 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 NXP Semiconductor, Infineon Technologies AG, Panasonic Automotive Systems Co., Ltd, Texas Instruments, Qorvo Inc, OSRAM Opto Semiconductors GmbH, ROHM Co., Ltd, Efficient Power Conversion Corporation, Renesas Electronics Corporation, Toshiba Corporation, etc.

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

Market Segmentation

Automotive GaN Devices 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

Power Device

Radio-frequency Device

Market segment by Application

Car Charger

Inverter

Motor Drive

Others

Major players covered

NXP Semiconductor

Infineon Technologies AG

Panasonic Automotive Systems Co., Ltd

Texas Instruments

Qorvo Inc

OSRAM Opto Semiconductors GmbH

ROHM Co., Ltd

Efficient Power Conversion Corporation

Renesas Electronics Corporation

Toshiba Corporation

MACOM Technology Solutions Holdings, Inc.

Nexperia

Soitec

INNOSECCO(Zhuhai)Technology 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 Automotive GaN Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive GaN Devices, with price, sales quantity, revenue, and global market share of Automotive GaN Devices from 2021 to 2026.

Chapter 3, the Automotive GaN Devices competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive GaN Devices 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 Automotive GaN Devices 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 Automotive GaN Devices.

Chapter 14 and 15, to describe Automotive GaN Devices sales channel, distributors, customers, research findings and conclusion.

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