

Global Automotive GaN Devices Market Growth 2026-2032

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Abstracts

The global Automotive GaN Devices market size is predicted to grow from US\$ 70.8 million in 2025 to US\$ 21400 million in 2032; it is expected to grow at a CAGR of 128.6% from 2026 to 2032.

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.

United States market for Automotive GaN Devices is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Automotive GaN Devices is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Automotive GaN Devices is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive GaN Devices players cover NXP Semiconductor, Infineon Technologies AG, Panasonic Automotive Systems Co., Ltd, Texas Instruments, Qorvo Inc, etc. In terms of revenue, the global two largest companies occupied for a share

nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Automotive GaN Devices Industry Forecast" looks at past sales and reviews total world Automotive GaN Devices sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive GaN Devices sales for 2026 through 2032. With Automotive GaN Devices sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive GaN Devices industry.

This Insight Report provides a comprehensive analysis of the global Automotive GaN Devices landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive GaN Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive GaN Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive GaN Devices and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive GaN Devices.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive GaN Devices market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Power Device

Radio-frequency Device

Segmentation by Application:

Car Charger

Inverter

Motor Drive

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

INNONSECCO(Zhuhai)Technology Co., Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive GaN Devices market?

What factors are driving Automotive GaN Devices market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive GaN Devices market opportunities vary by end market size?

How does Automotive GaN Devices break out by Type, by Application?

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