

Global Automotive Intelligent Power Module (IPM) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Intelligent Power Module (IPM) market size was valued at USD 131.7 million in 2022 and is forecast to a readjusted size of USD 276.9 million by 2029 with a CAGR of 11.2% during review period.

An Automotive Intelligent Power Module (IPM) is a specialized semiconductor device designed to control and drive high-power electrical systems in automotive applications. IPMs are specifically engineered to meet the stringent requirements of the automotive industry, where reliability, efficiency, and compactness are of paramount importance. These modules are used to control various power-driven systems within vehicles, including electric powertrains, hybrid systems, electric steering, HVAC (Heating, Ventilation, and Air Conditioning), and more.

The market for Automotive Intelligent Power Modules (IPMs) was experiencing significant growth due to the increasing adoption of electric and hybrid vehicles, as well as the overall trend toward vehicle electrification. The automotive industry's shift toward cleaner and more energy-efficient technologies has driven the demand for efficient power electronics solutions like IPMs. These modules play a crucial role in electric powertrains, hybrid systems, and other power-driven components in vehicles.

Here are some trends and factors that were influencing the Automotive Intelligent Power Module market up to that point:

Electrification of Vehicles: The global automotive industry was undergoing a significant transformation with the rise of electric and hybrid vehicles. Automotive IPMs were

essential components in electric powertrains and hybrid systems, facilitating efficient motor control and power conversion.

Stringent Emission Regulations: Stringent emission regulations and fuel efficiency targets in various regions were driving automakers to develop electric and hybrid vehicles. This trend bolstered the demand for IPMs to enable energy-efficient operation.

Increased Power Electronics Integration: As vehicles integrated more power electronics for various functions, the demand for compact, reliable, and high-performance IPMs grew. These modules are used in multiple applications within electrified vehicles.

Energy Efficiency and Range Optimization: IPMs played a vital role in achieving energy efficiency and maximizing the driving range of electric and hybrid vehicles by ensuring efficient power conversion and motor control.

Growing Demand for Electric Motors: The increasing adoption of electric motors in various automotive applications, such as power steering, HVAC systems, and auxiliary systems, contributed to the demand for IPMs.

Technological Advancements: Semiconductor manufacturers continued to innovate, enhancing the performance, efficiency, and reliability of Automotive IPMs to meet the unique requirements of automotive applications.

Battery Electric Vehicle (BEV) and Plug-in Hybrid Electric Vehicle (PHEV) Growth: The shift towards BEVs and PHEVs in response to consumer demand and government incentives was driving the use of IPMs in these vehicles.

Supply Chain and Material Challenges: Similar to other semiconductor components, the IPM market faced supply chain challenges due to factors like the COVID-19 pandemic, semiconductor shortages, and materials availability.

Automotive Safety Standards: Automotive IPMs were required to meet stringent safety and quality standards to ensure the overall safety and reliability of vehicles.

Global Market Expansion: The demand for Automotive IPMs was not limited to specific regions, with growth observed in both established automotive markets and emerging markets.

Partnerships and Collaborations: Semiconductor companies collaborated with

automakers and other industry stakeholders to develop customized IPM solutions that met specific vehicle requirements.

Cost Competitiveness: As the electric vehicle market matured, achieving cost competitiveness while maintaining quality became a key focus, influencing the pricing and adoption of IPMs.

The Global Info Research report includes an overview of the development of the Automotive Intelligent Power Module (IPM) industry chain, the market status of Passenger Car (IGBT Based IPM, MOSFET Based IPM), Commercial Vehicle (IGBT Based IPM, MOSFET Based IPM), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Automotive Intelligent Power Module (IPM).

Regionally, the report analyzes the Automotive Intelligent Power Module (IPM) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Automotive Intelligent Power Module (IPM) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Automotive Intelligent Power Module (IPM) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Automotive Intelligent Power Module (IPM) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., IGBT Based IPM, MOSFET Based IPM).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Automotive Intelligent Power Module (IPM) market.

Regional Analysis: The report involves examining the Automotive Intelligent Power Module (IPM) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Automotive Intelligent Power Module (IPM) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Automotive Intelligent Power Module (IPM):

Company Analysis: Report covers individual Automotive Intelligent Power Module (IPM) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Automotive Intelligent Power Module (IPM) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Passenger Car, Commercial Vehicle).

Technology Analysis: Report covers specific technologies relevant to Automotive Intelligent Power Module (IPM). It assesses the current state, advancements, and potential future developments in Automotive Intelligent Power Module (IPM) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Automotive Intelligent Power Module (IPM) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Automotive Intelligent Power Module (IPM) 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.

Market segment by Type

IGBT Based IPM

MOSFET Based IPM

Market segment by Application

Passenger Car

Commercial Vehicle

Major players covered

Mitsubishi Electric

ON Semi

Infineon Technologies

Fuji Electric

Semikron Danfoss

ROHM

STMicroelectronics

Hangzhou Silan

Jilin Sino-Microelectronics

Market segment by region, regional analysis covers

Global Automotive Intelligent Power Module (IPM) Market 2023 by Manufacturers, Regions, Type and Application,...

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 Intelligent Power Module (IPM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Intelligent Power Module (IPM), with price, sales, revenue and global market share of Automotive Intelligent Power Module (IPM) from 2018 to 2023.

Chapter 3, the Automotive Intelligent Power Module (IPM) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Intelligent Power Module (IPM) 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 Automotive Intelligent Power Module (IPM) 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 Automotive Intelligent Power Module (IPM).

Chapter 14 and 15, to describe Automotive Intelligent Power Module (IPM) sales channel, distributors, customers, research findings and conclusion.

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