

Automotive Semiconductor Market: Trends, Opportunities and Competitive Analysis [2023-2028]

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Abstracts

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Automotive Semiconductor Market Trends and Forecast

The future of the global automotive semiconductor market looks promising with opportunities in powertrain, chassis, safety, networking/communication, body electronics, and driver information system applications. The global automotive semiconductor market is expected to reach an estimated \$81.5 billion by 2028 with a CAGR of 9.4% from 2023 to 2028. The major drivers for this market are growing trend of vehicle electrification, rising demand for advanced safety, convenience, and comfort systems, and increasing installation of ADAS (advanced driver assistance system).

Automotive Semiconductor Market by Component, Vehicle, Application, and Engine

A more than 150-page report is developed to help in your business decisions. A sample figure with some insights is shown below.

Automotive Semiconductor Market by Segments

Automotive Semiconductor Market by Segment

The study includes trends and forecast for the global automotive semiconductor market by component type, vehicle type, application, engine type, and region, as follows:

Automotive Semiconductor Market by Component Type [Value (\$B) Shipment Analysis from 2017 to 2028]:

Microcontrollers

Integrated Circuits

Sensors

Discrete Power

Others

Automotive Semiconductor Market by Vehicle Type [Value (\$B) Shipment Analysis from 2017 to 2028]:

Small Cars

Compact Cars

Mid-Size Cars

Large Cars

SUVs & Crossovers

MPVs

Pickups

HCVs

Electric Vehicles

Others

Automotive Semiconductor Market by Application [Value (\$B) Shipment Analysis from 2017 to 2028]:

Powertrain

Chassis

Safety

Networking/Communication

Body Electronics

Driver Information Systems

Automotive Semiconductor Market by Engine Type [Value (\$B) Shipment Analysis from 2017 to 2028]:

ICE Vehicles

Electric Vehicles

Automotive Semiconductor Market by Region [Value (\$B) Shipment Analysis from 2017 to 2028]:

North America

Europe

Asia Pacific

The Rest of the World

List of Automotive Semiconductor Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies automotive semiconductor companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the automotive semiconductor companies profiled in this report include.

NXP Semiconductor

Renesas Electronics

ST Microelectronics

Infineon Technologies

Texas Instruments

Robert Bosch

On Semiconductor

Micron Technology

TOSHIBA

Panasonic Semiconductor

Automotive Semiconductor Market Insights

Lucintel forecasts that integrated circuits will remain the largest component type segment over the forecast period due to rapid vehicle electrification, increasing demand for electronics, and growth in vehicle production.

Powertrain is the highest growing segment due to efficient operation of electric components and battery management systems.

APAC is expected to remain the largest region during the forecast period due to increasing penetration of electric vehicles in China and supportive government initiatives to boost semiconductor manufacturing.

Features of the Automotive Semiconductor Market

Market Size Estimates: Automotive semiconductor market size estimation in terms of value (\$B)

Trend and Forecast Analysis: Market trends (2017-2022) and forecast (2023-2028) by various segments and regions.

Segmentation Analysis: Automotive semiconductor market size by various segments, such as by component type, vehicle type, application, engine type, and region

Regional Analysis: Automotive semiconductor market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis on growth opportunities in different component types, vehicle types, applications, engine types, and regions for the automotive semiconductor market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the automotive semiconductor market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the automotive semiconductor market size?

Answer: The global automotive semiconductor market is expected to reach an estimated \$81.5 billion by 2028.

Q2. What is the growth forecast for automotive semiconductor market?

Answer: The global automotive semiconductor market is expected to grow with a CAGR of 9.4% from 2023 to 2028.

Q3. What are the major drivers influencing the growth of the automotive semiconductor

market?

Answer: The major drivers for this market are growing trend of vehicle electrification, rising demand for advanced safety, convenience, and comfort systems, and increasing installation of ADAS (advanced driver assistance system).

Q4. What are the major segments for automotive semiconductor market?

Answer: The future of the automotive semiconductor market looks promising with opportunities in powertrain, chassis, safety, networking/communication, body electronics, and driver information system applications.

Q5. Who are the key automotive semiconductor companies?

Answer: Some of the key automotive semiconductor companies are as follows:

NXP Semiconductor

Renesas Electronics

ST Microelectronics

Infineon Technologies

Texas Instruments

Robert Bosch

On Semiconductor

Micron Technology

TOSHIBA

Panasonic Semiconductor

Q6. Which automotive semiconductor segment will be the largest in future?

Answer: Lucintel forecasts that integrated circuits will remain the largest component type segment over the forecast period due to rapid vehicle electrification, increasing demand for electronics, and growth in vehicle production.

Q7. In automotive semiconductor market, which region is expected to be the largest in next 5 years?

Answer: APAC is expected to remain the largest region during the forecast period due to increasing penetration of electric vehicles in China and supportive government initiatives to boost semiconductor manufacturing.

Q8. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1. What are some of the most promising, high-growth opportunities for the global automotive semiconductor market by component type (microcontrollers, integrated circuits, sensors, discrete power, and others), vehicle type (small cars, compact cars, mid-size cars, large cars, SUVs and crossovers, MPVs, pickups, HCVs, electric vehicles, and others), application (powertrain, chassis, safety, networking/communication, body electronics, and driver information systems), engine type (ICE vehicles and electric vehicles), and region (North America, Europe, Asia

Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity did occur in the last five years and how did they impact the industry?

For any questions related to automotive semiconductor market or related to automotive semiconductor companies, automotive semiconductor market size, automotive semiconductor market share, automotive semiconductor analysis, automotive semiconductor market growth, automotive semiconductor market research, write to us we will be glad to get back to you soon.

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- 7.6: Robert Bosch GmbH
- 7.7: ON Semiconductor
- 7.8: Micron Technology
- 7.9: TOSHIBA
- 7.10: Panasonic Semiconductor Solutions Co. Ltd.

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