

# **System Basis Chip Market by Vehicle Type (Passenger Car, Light and Heavy Commercial Vehicle, Automated Guided Vehicle), Application (Powertrain, Safety, Chassis, Body Electronics, Telematics & Infotainment), and Geography - Global Forecast to 2022**

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## **Abstracts**

“Growing demand for advanced safety, convenience, and comfort systems drives the system basis chip market”

The system basis chip market size, in terms of value, is expected to grow from USD 15.12 billion in 2015 to USD 28.39 billion by 2022, at a CAGR of 9.1% between 2016 and 2022. The system basis chip market size, in terms of volume, is expected to reach 31.19 billion units by 2022, at a CAGR of 11.8% between 2016 and 2022. More electronic systems are being utilized to provide better safety, comfort, and convenience in the automobiles which is the major driver for the system basis chip market

“Telematics and Infotainment application was the largest market for system basis chip in 2015”

The infotainment and telematics systems in today’s vehicles have multiple capabilities. They are interconnected with one another and with other systems such as GPS and entertainment systems. Automobile manufacturers use telematics that focus on the wireless connectivity to computer-based controllers called electronic control units (ECUs) . The increasing use of semiconductor components into the ECU creates an opportunity of a cost-effective and smart solution such as system basis chip.

“North American system basis chip market to grow at the highest CAGR”

North America holds a tremendous market potential in the near future and is expected to grow at the highest CAGR during the forecast period. The North American region is one of the most technologically advanced automotive sectors. The demand for premium cars with high semiconductor content is more in the region. This is mainly because of the high standard of living and high per capita income in the region. Furthermore, the government regulations pertaining to vehicle emissions and safety are very stringent. The demand for safe and secure vehicles with increased electronic contents would drive the growth of the system basis chip market in this region.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews were conducted with key people. The break-up of profile of primary participants is given below:

By Company Type: Tier 1 – 55 %, Tier 2 – 20%, and Tier 3 – 25%

By Designation: C-Level Executives – 75% and Managers – 25%

By Region: APAC – 40%, Europe – 30%, The Americas – 20%, and RoW – 10%

Companies that provide a range of customized solutions are expected to emerge as the game changers as customers find it easier to sync up with such devices for use in the specific industry. The major focus for the system basis chip market is on the automotive industry.

The key players in the system basis chip market profiled in the report are as follows:

1. NXP Semiconductor NV (Netherlands)
2. Infineon Technologies AG (Germany)
3. Texas Instruments, Inc. (U.S.)
4. Robert Bosch GmbH (Germany)
5. STMicroelectronics NV (Switzerland)
6. ON Semiconductor Corp. (U.S.)
7. Atmel Corporation (U.S.)
8. Microchip Technology Inc. (U.S.)
9. Elmos Semiconductor AG (Germany)

## 10. Melexis Semiconductors (Belgium)

### Objectives of the study:

To define, describe, and forecast the global system basis chip (SBC) market on the basis of vehicle type, application, and geography

To forecast the market size of the segments in terms of value with respect to the four main geographies, namely, North America, Europe, Asia-Pacific, and RoW (Rest of the World)

To provide the market statistics with detailed classifications, along with the respective market size

To strategically analyze the micromarkets with respect to the individual growth trends, future prospects, and contribution to the total market

To analyze the opportunities in the market for stakeholders and details of the competitive landscape for market leaders

To strategically profile the key players and comprehensively analyze their market shares and core competencies

To provide detailed information regarding the major factors influencing the growth of the market (drivers, restraints, opportunities, challenges, and burning issues)

To study the complete value chain, allied industry segments, and perform a value chain analysis of the global system basis chip market landscape

To provide the detailed Porter's analysis and market life cycle analysis along with the technology roadmaps, evolution, and timelines of each type of system basis chip and their respective markets

To analyze the competitive developments such as joint ventures, mergers & acquisitions, new product developments, and research & developments in the system basis chip market

To track the competitive intelligence from the company profiles, key player

strategies, and game-changing developments

#### Key Target Audience:

Raw material suppliers

Semiconductor component and device manufacturers

Original equipment manufacturers (OEMs)—white label manufacturing for others in bulk volume

Component and device suppliers and distributors

Automotive control system integrators

Automobile manufacturers

Software, services, and technology providers

Standardization and testing firms

Government bodies such as regulating authorities and policy makers

Associations, organizations, forums, and alliances related to semiconductor and automotive industries Research institutes and organizations

Market research and consulting firms

#### Scope of the Report:

The system basis chip market has been covered in detail in this report. To provide a holistic picture, the current market demand and forecasts have also been included in the report. The system basis chip market is segmented as follows:

#### By Vehicle Type:

Passenger Cars

LCVs

HCVs

AGVs

Autonomous Vehicles

By Application:

Powertrain

Safety

Body Electronics

Chassis

Telematics & Infotainment

By Geography:

North America

Europe

APAC

RoW

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