Global Automotive MEMS Sensor Market Size, Share, Development, Growth and Demand Forecast to 2020

Description: Micro-fabrication is the primarily used technology for the design and development of MEMS. The IC fabrication technology provides a powerful tool for the miniaturization of mechanical systems, and batch processing technique that cannot be performed with the traditional machining techniques. In addition, the IC fabrication technique offers integration of the mechanical systems with electronic, to provide close loop controlled MEMS performance. The advancement in the IC fabrication technology has also boosted the cost effective fabrication process of MEMS.

Globally, the passenger car market is growing at the fastest pace in Asia-Pacific. The increasing middle class population, upsurge in urbanization and strengthening transportation infrastructure in developing countries, such as India and China, raised the demand of passenger cars in Asia-Pacific to a record height in 2014. The passenger car market in China has witnessed a double digit growth rate during the past few years. Currently China accounts for about 17.9 million vehicles, despite of its slightly lower economic growth, while the automotive sector in the country is expected to witness a robust growth during the next five to six years.

The global automotive MEMS sensor market was valued $2,600.5 million in 2014, and it is expected to grow at a CAGR of 6.0% during 2015-2020.

The automotive MEMS foundry outsourcing is very limited, as compared to the MEMS sensor foundries for the consumer electronics products. An exception can be seen in the partnership of Freescale with the Dalsa foundry. However, the outsourced foundry services are only limited to lower end products such as pressure sensor, whereas Freescale's foundry retains its in-house manufacturing of high-value technologies of automotive MEMS sensors, such as accelerometers and gyroscopes. The major automotive MEMS players, including Bosch, still perceive the in-house MEMS fabrication as a dominant manufacturing process for the automotive MEMS sensor.

The increasing adoption of advanced driver assistance system (ADAS), and growing need of inter vehicle communication (connected car) has increased the number of sensors integration in automobiles. The automotive MEMS sensors market is highly consolidated. The MEMS sensor manufacturing companies are heavily emphasizing on the growing sales of passenger cars, with sensing technologies designed for the vehicle and driver safety. North America witnessed the highest revenue from safety and chassis, due to large scale adoption of electronic stability controls in new vehicles. MEMS pressure sensors are extensively used in range of automotive applications, including oil pressure monitoring, nitrous monitoring, brake monitoring, and transmission. In addition, the pressure sensor are also used in the automotive side airbags, exhaust gas recirculation pressure measurement, tire pressure monitoring systems (TPMS), barometric pressure measurement, and direct-injection systems of gasoline. The increased popularity of sports racing vehicle, due to the popularity of racing events such as formula One and others, is laying new market opportunities for the automotive MEMS pressure sensor market.

North America and Europe remains the two largest markets for the automotive MEMS sensors, while Asia-Pacific along with Rest of the World regions have witnessed comparatively higher growth rate, in the past few years. The growth in the Asia-pacific region is led by China and India. Brazil is largest and fastest growing regional automotive MEMS sensor market in Rest of the World region.


Report Coverage
- Provides comprehensive understanding of the market with the help of informed market outlook, opportunities, challenges, trends, size and growth, competitive analysis, major competitors and Porter analysis
- Identifies the key drivers of growth and challenges of the key industry players. Also, assesses the future
impact of the propellants and restraints on the market
- Uncovers potential demands in the market
- Porter analysis identifies competitive forces within the market
- Provides information on the historical and current market size and the future potential of the market
- Provides sizes of key regional markets using yardsticks of processes, segments, products, end user and technology, etc (as applicable)
- Highlights the competitive scenario of the market, major competitors, market share, benchmarking, investments and merger acquisitions
- Provides profiles of major competitors of the market including details of their operations, product and services, recent developments and key financial metrics. Profiles provide better understanding of competition as well as the demands of the market.

Contents:
Chapter 1. Introduction
  1.1 Market Definition
  1.2 Market Scope
  1.2.1 Global Automotive Mems Sensors Market Breakdown By Type
  1.2.2 Global Automotive Mems Sensors Market Breakdown By Application
  1.2.3 Global Automotive Mems Sensors Market Breakdown By Geography
  1.3 Research Methodology & Sources

Chapter 2. Executive Summary
  2.1 Key Findings
  2.2 Research Summary

Chapter 3. Market Outlook
  3.1 Introduction
  3.2 Value Chain Analysis
  3.3 Trends In The Market
  3.3.1 Mems Based Energy Harvester For Automobiles
  3.4 Opportunities In The Market
  3.4.1 Use Of Mems In Intelligent Transportation Systems (Its)
  3.5 Factors Driving The Market And Its Impact On Market Forecast
  3.5.1 Stringent Safety Mandates And Growing Consumer Demand Compel Automotive Manufacturers To Improve Safety Technology
  3.5.2 Upsurge In The Demand Of Passenger Car Within Developing Economies
  3.5.3 Evolution Of Integrated Circuit (Ic) Technology
  3.5.4 Impact Analysis Of Drivers On Market Forecast
  3.6 Factors Hindering The Market Growth And Its Impact On Market Forecast
  3.6.1 Limited Foundry Outsourcing For Accelerometers And Gyroscopes Used In Automotive Application
  3.6.2 Impact Analysis Of Restraints On Market Forecast

Chapter 4. Global Automotive Mems Sensors Market & Forecast
  4.1 Global Automotive Mems Sensors Market By Type
  4.2 Global Automotive Mems Sensors Market By Application
  4.3 Global Automotive Mems Sensors Market By Geography

Chapter 5. Global Automotive Mems Sensors Market Breakdown By Type
  5.1 Automotive Mems Pressure Sensors Market
  5.2 Automotive Mems Accelerometer Market
  5.3 Automotive Mems Gyroscopes Market
  5.4 Automotive Mems Flow Sensors Market
  5.5 Automotive Mems Other Sensors Market

Chapter 6. Global Automotive Mems Sensors Market Breakdown By Application
  6.1 Automotive Mems Sensors Application In Safety And Chassis
  6.2 Automotive Mems Sensors Application In Powertrain
  6.3 Automotive Mems Sensors Application In Body And Convenience
  6.4 Automotive Mems Sensors Application In Infotainment

Chapter 7. Global Automotive Mems Sensors Market Breakdown By Geography
  7.1 North America Automotive Mems Sensors Market
  7.2 Europe Automotive Mems Sensors Market
7.3 Asia-Pacific Automotive Mems Sensors Market
7.4 Rest Of The World (Row) Automotive Mems Sensors Market

Chapter 8. Competitive Positioning And Market Share Analysis
8.1 Porter's Five Forces Of Competitive Position Analysis
8.1.1 Bargaining Power Of Buyers
8.1.2 Bargaining Power Of Suppliers
8.1.3 Threat Of New Entrants
8.1.4 Intensity Of Rivalry
8.1.5 Threat Of Substitutes
8.2 Competitive Positioning Of Key Competitors
8.3 Market Share Analysis Of Key Players

Chapter 9. Company Profiles
9.1 Sensata Technologies Inc.
9.1.1 Business Overview
9.1.2 Products And Services
9.2 Robert Bosch Gmbh
9.2.1 Business Overview
9.2.2 Products And Services
9.3 Stmicroelectronics Nv
9.3.1 Business Overview
9.3.2 Products And Services
9.4 Texas Instruments Incorporated
9.4.1 Business Overview
9.4.2 Products And Services
9.5 Panasonic Corporation
9.5.1 Business Overview
9.5.2 Products And Services
9.6 Invensense Inc.
9.6.1 Business Overview
9.6.2 Products And Services
9.7 Infineon Technologies Ag
9.7.1 Business Overview
9.7.2 Products And Services
9.8 Denso Corporation
9.8.1 Business Overview
9.8.2 Products And Services
9.9 Hitachi Automotive Systems Ltd.
9.9.1 Business Overview
9.9.2 Products And Services
9.10 Delphi Automotive Plc
9.10.1 Business Overview
9.10.2 Products And Services
9.11 Analog Devices Inc.
9.11.1 Business Overview
9.11.2 Products And Services
9.12 Freescale Semiconductor Ltd.
9.12.1 Business Overview
9.12.2 Products And Services
9.13 Strategic Developments In The Automotive Mems Sensors Market
9.13.1 Mergers & Acquisitions
9.13.2 Product Launch
9.13.3 Others

Chapter 10. Appendix
10.1 List Of Abbreviations

List Of Tables

Table 1 Specific Primary And Secondary Sources Used For This Publication
Table 2 Global Automotive Mems Sensors Market Snapshot (2015 And 2020)
Table 3 Global Intelligent Transportation Systems (ITS) Development
Table 4 Impact Analysis: Market Drivers
Table 5 Impact Analysis: Market Restraint
Table 6 Global Automotive Mems Sensors Market Breakdown By Type, $M (2011 – 2014)
Table 7 Global Automotive Mems Sensors Market Breakdown By Type, $M (2015 – 2020)
Table 8 Global Automotive Mems Sensors Market Breakdown By Application, $M (2011 – 2014)
Table 9 Global Automotive Mems Sensors Market Breakdown By Application, $M (2015 – 2020)
Table 10 Global Automotive Mems Sensors Market Breakdown By Geography, $M (2011 – 2014)
Table 11 Global Automotive Mems Sensors Market Breakdown By Geography, $M (2015 – 2020)
Table 12 Automotive Mems Pressure Sensors Market Breakdown By Geography, $M (2011 – 2014)
Table 13 Automotive Mems Pressure Sensors Market Breakdown By Geography, $M (2015 – 2020)
Table 14 Automotive Mems Accelerometer Market Breakdown By Geography, $M (2011 – 2014)
Table 15 Automotive Mems Accelerometer Market Breakdown By Geography, $M (2015 – 2020)
Table 16 Automotive Mems Gyroscopes Market Breakdown By Geography, $M (2011 – 2014)
Table 17 Automotive Mems Gyroscopes Market Breakdown By Geography, $M (2015 – 2020)
Table 18 Automotive Mems Flow Sensors Market Breakdown By Geography, $M (2011 – 2014)
Table 19 Automotive Mems Flow Sensors Market Breakdown By Geography, $M (2015 – 2020)
Table 20 Automotive Mems Other Sensors Market Breakdown By Geography, $M (2011 – 2014)
Table 21 Automotive Mems Other Sensors Market Breakdown By Geography, $M (2015 – 2020)
Table 22 Geographical Breakdown Of Automotive Mems Sensors Market In Safety And Chassis , $M (2011 – 2014)
Table 23 Geographical Breakdown Of Automotive Mems Sensors Market In Safety And Chassis , $M (2015 – 2020)
Table 26 Geographical Breakdown Of Automotive Mems Sensors Market In Body And Convenience, $M (2011 – 2014)
Table 27 Geographical Breakdown Of Automotive Mems Sensors Market In Body And Convenience, $M (2015 – 2020)
Table 28 Geographical Breakdown Of Automotive Mems Sensors Market In Infotainment, $M (2011 – 2014)
Table 29 Geographical Breakdown Of Automotive Mems Sensors Market In Infotainment, $M (2015 – 2020)
Table 30 North America Automotive Mems Sensors Market Breakdown By Country, $M (2011 – 2014)
Table 31 North America Automotive Mems Sensors Market Breakdown By Country, $M (2015 – 2020)
Table 32 Europe Automotive Mems Sensors Market Breakdown By Country, $M (2011 – 2014)
Table 33 Europe Automotive Mems Sensors Market Breakdown By Country, $M (2015 – 2020)
Table 34 Asia-Pacific Automotive Mems Sensors Market Breakdown By Country, $M (2011 – 2014)
Table 35 Asia-Pacific Automotive Mems Sensors Market Breakdown By Country, $M (2015 – 2020)
Table 37 Rest Of The World Automotive Mems Sensors Market Breakdown By Country, $M (2015 – 2020)
Table 38 Sensata Technologies Inc. – Key Facts
Table 39 Robert Bosch Gmbh – Key Facts
Table 40 Product Categories Of Robert Bosch Gmbh
Table 41 Stmicroelectronics Nv – Key Facts
Table 42 Texas Instruments Incorporated – Key Facts
Table 43 Panasonic Corporation – Key Facts
Table 44 Sensor Product Categories Of Panasonic Corporation
Table 45 Invensense Inc. – Key Facts
Table 46 Automotive Mems Product Categorys Of Invensense, Inc.
Table 47 Infineon Technologies Ag – Key Facts
Table 48 Denso Corporation – Key Facts
Table 49 Hitachi Automotive Systems, Ltd. – Key Facts
Table 50 Delphi Automotive Plc – Key Facts
Table 51 Analog Devices, Inc.- Key Facts
Table 52 Freescale Semiconductor, Ltd. – Key Facts

List Of Figures
Fig 1 Research Scope Of The Global Automotive Mems Sensors Market
Fig 2 Research Methodology
Fig 3 Value Chain Analysis
Fig 4 Global Automotive Mems Sensors Market Size By Type, $M (2011-2020)
Fig 5 Global Automotive Mems Sensors Market Size By Application, $M (2011-2020)
Fig 6 Global Automotive Mems Sensors Market Size By Geography, $M (2011-2020)
Fig 7 Global Automotive Mems Pressure Sensors Market Share, By Geography (2014 & 2020)
Fig 8 Global Automotive Mems Accelerometer Sensors Market Share By Geography, (2014 & 2020)
Fig 9 Global Automotive Mems Gyroscope Market Share, By Geography (2014 & 2020)
Fig 10 Global Automotive Mems Flow Sensors Market Share, By Geography (2014 & 2020)
Fig 11 Global Automotive Mems Other Sensors Market Share, By Geography (2014 & 2020)

Fig 12 Global Automotive Mems Sensors Application In Safety And Chassis - Market Share By Geography (2014 & 2020)

Fig 13 Global Automotive Mems Sensors Application In Powertrain - Market Share By Geography (2014 & 2020)

Fig 14 Global Automotive Mems Sensors Application In Body And Convenience - Market Share By Geography (2014 & 2020)

Fig 15 Global Automotive Mems Sensors Application In Infotainment - Market Share By Geography (2014 & 2020)

Fig 16 Global Automotive Mems Sensors Market, By Geography

Fig 17 North America Automotive Mems Sensors Market Size By Country, $M (2011-2020)

Fig 18 Europe Automotive Mems Sensors Market Size By Country, $M (2011-2020)

Fig 19 Asia-Pacific Automotive Mems Sensors Market Size By Country, $M (2011-2020)

Fig 20 Rest Of The World Automotive Mems Sensors Market Size By Country, $M (2011-2020)

Fig 21 Porter’S Five Forces Of Competitive Position Analysis

Fig 22 Competitive Positioning Of Key Players (2014)

Fig 23 Global Automotive Mems Sensors Market Share Analysis Of Key Players (2014)

Ordering:

Order Online - http://www.researchandmarkets.com/reports/3497406/

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Global Automotive MEMS Sensor Market Size, Share, Development, Growth and Demand Forecast to 2020
Web Address: http://www.researchandmarkets.com/reports/3497406/
Office Code: SCBRKTYV

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 4500</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
<td>USD 7500</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprise Wide:</td>
<td>USD 10500</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr □</th>
<th>Mrs □</th>
<th>Dr □</th>
<th>Miss □</th>
<th>Ms □</th>
<th>Prof □</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
- Account number: 833 130 83
- Sort code: 98-53-30
- Swift code: ULSBIE2D
- IBAN number: IE78ULSB98533083313083
- Bank Address: Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: _______________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World