

## **GLOBAL AUTOMOTIVE ELECTRONICS** WITH SPECIAL FOCUS ON **OEMS MARKET**

### Summary

<u>Automotive Electronics</u> are increasingly utilized in today's automobiles. Beginning with the requirement of providing enhanced engine control, the current breed of automobiles has become more and more reliant on electronics, enabling them in going faster, even while providing highest levels of safety. Today's contemporary cars have evolved into electronic machines, with more and more operations being controlled with electronic control units (ECUs). For instance, a premium segment car can comprise up to 150 such ECUs for controlling virtually all vehicle-related aspects. These can include an engine control unit for managing a car's efficiency, a steering and surround view system for preventing accidents, a telematic system offering information related to local hot spots, an electronic stability/traction control for maintaining appropriate steering control, and sensors for deploying airbags in the event of a collision.

The major trends driving demand for increased penetration of <u>electronics in automobiles</u> include regulatory mandates for improving fuel economy and stringent emission standards as well as requirements for advanced safety systems, consumer demand for safety & security and comfort & convenience features, and growth of hybrid and electric vehicles. Environmental issues and highly stringent government regulations have been forcing auto OEMs to accord greater importance to fuel efficiency.

The report reviews, analyses and projects the automotive electronics market for global and the regional markets including North America, Europe, Japan, Asia and Rest of World. The regional markets further analyzed for 12 independent countries across North America – the United States, Canada and Mexico; Europe – Germany, France, Spain, The United Kingdom and Italy; Japan; Asia – China, India and South Korea. <u>Automotive Electronic products</u> analyzed in this study include Powertrain Electronics, Chassis Electronics, Safety & Security Systems, Entertainment Systems, Communication & Navigation systems and Other Automotive Electronics.

The <u>global market for Automotive Electronics</u>, estimated at US\$191.3 billion in 2013 and forecast to be US\$204.6 billion in 2014, is further projected to reach US\$314.4 billion by 2020, thereby maintaining a CAGR of 7.3% between 2012 and 2020. OEM Automotive Electronics, accounting for an estimated share of 86.3% in 2013 equating to US\$165.2 billion in the overall Automotive Electronics market, is forecast at US\$177.2 billion in 2014 and expected to register a 2012-2020 CAGR of 7.6% in reaching a projected US\$277.1 billion by 2020.

This 334 page, global market report comprises 136 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. The statistical tables represent the data for the global market value in US\$ by geographic regions and the product segments. This study profiles 39 key global players and 79 major players across North America – 30; Europe – 18; Japan – 24 and Asia – 7. The report also provides the listing of the companies engaged in the manufacturing and <u>supply of automotive electronics</u>. The global list of companies covers addresses, contact numbers and the website addresses of 303 companies.



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BorgWarner Inaugurates New Indian Plant

Mentor Graphics Acquires Selected Automotive Electronics Assets from MontaVista

Indian Factory Automation Business of Mitsubishi Electric Expanded Elektrobit and Renesas Electronics in Partnership Visteon Obtains Major European Contract Philips Divests Audio, Video, Multimedia and Accessories Operations to Funai Denso Setting Up Production Facility in Cambodia Europe's Best in Class Cars Integrated with Safety Products from Autoliv Three Millionth Pressure Sensor Glow Plug (PSG) for Diesel Engines Delivered by BorgWarner BERU Systems ASL Vision Acquired by Continental Johnson Controls Entering Auto Infotainment Electronics Market Nexteer's Ships its 20 Millionth Electric Power Steering System Yazaki Corp Starts Construction of Cambodian Plant Autoliv Crosses the Half a Billion Units Mark for Side Protection Airbags Autoliv Undertakes Expansion in Indonesia Continental to Produce Airbag Control Unit with Integrated Sensor Cluster in China CTS Corporation Acquires D&R Technology LLC Slovakian Facility of Hyundai MOBIS Commences Manufacture Yazaki to Take Over Tata's Share in Indian Joint Venture Autoliv Expands Operations in the United States Magneti Marelli, JAC and Lingdatang Sign Joint Venture Nexteer's Investments Aimed at Developing Quieter and Smoother EPS Systems Autoliv's Chinese Technical Center Expanded New Indian Facility Set Up by Magneti Marelli FCI's Motorized Vehicles Business Acquired by Delphi Denso Establishing a Facility in Indonesia Hitachi Automotive Systems Americas Sets Up New Mexican Facility UK Electronics Network Launched by NMI Continental to Open New R&D Facility in Ulm Denso Expands Brazilian Operations Magneti Marelli Establishes New Plant in Changsha, China BorgWarner's Spark Plug Operations Taken Over by Federal-Mogul Automotive Sensor Production Programs Awarded to CTS Corp TomTom Expands Asia-Pacific Operations Visteon's Chinese Electronics Facility Expanded Denso Eyes Indian Market with New Plant ADVICS Sets Up New Production Unit in China ADVICS Ventures into India Alpine's Thailand Facility Resumes Production of Car Audios Joint Venture Between Magneti Marelli and Changchun Fudi CTS Obtains Asian Automotive Production Programs Garmin's Worldwide Presence in the Automotive OEM Sector Expanded Denso Takes Over 3D Business of I-Net Corp MOBIS Enters Indian Market Johnson Controls, Pricol in an Indian Joint Venture ADVICS Sets Up Thai Facility Clarion's Next GATE, FZ502 and M502 Secure the Good Design Award 2012 TRW Automotive Commences Production of Electric Steering in Brazil GO 2050 and Via Series of PNDs Introduced by TomTom in Indonesia Hitachi Automotive Systems Europe GmbH Acquires HUECO Automotive GmbH

### 5. KEY PRODUCT TRENDS

Continental and Fiat Integrate Navigation from TomTom into the Fiat Uconnect Infotainment System TRW Showcases Novel Seatbelt Concept TomTom HD Traffic to be Integrated into Toyota Vehicles Pedestrian Collision Detection Sensor Developed by Denso Allegro MicroSystems Launches Innovative Package Option for its Sensor IC Portfolio Novel Full-Featured Advanced CD Receivers Introduced by Alpine Electronics BorgWarner Turbochargers to Power New Range of Mercedes-Benz **Commercial Vehicles** Clarion Launches the NX502ETRK Navigation System for Large Vehicles

Continental and BMW Group Form a Research and Development Pact Continental Presented with Toyota's Technology & Development Award

# **GLOBAL AUTOMOTIVE ELECTRONICS** with Special Focus on **OEMs Market**

Continental's "Driver Focus" Concept Vehicle Aims to Grab Driver's Undivided Attention

Mentor Graphics Offers Electrical Design Software to Tesla Motors Novel Low Voltage Digital Output Hall Effect Sensors Launched by Melexis Car Display System with Free-Form Screen Developed by Mitsubishi Electric STMicroelectronics Introduces Microcontrollers for Enhancing Vehicle Safety World's First Integrated, In-vehicle Wireless Cell Phone Charger from Denso Bosch and PSA Peugeot Citroën Engaged in Developing Hydraulic Hybrid for Passenger Cars

Bosh Engages in Expanding Driver Assistance Systems

Industry = xperts

Redefines Business Acumen

Alpine Electronics Extends its Product Offerings

Alpine Electronics Launches the Largest Audio-Video-Navigation System Agero Introduces AgeroViewSM DevKit

Autoliv's New Seatbelt Technology for Mercedes' Future S-Class BMW "Dynamic Light Spot" Illuminated with Autoliv's Technology

Three New DVD Receivers with Monitors Launched by Boss Audio New In-Vehicle Infotainment Devices from Clarion

Clarion Launches Powerful Range of In-Vehicle Subwoofers

Delphi Showcases New Technologies

Garmin® Offers Next-Generation In-Vehicle Infotainment System

Pioneer Offers Expanded In-Car Connectivity with New Apps

STMicroelectronics Debuts New Technology Supporting Smaller and Smarter Vehicle Electronics

RKJXW2 Series Multi Control Device Developed by Alps

Acura's Next-Generation AcuraLink® Connected Car System to be Powered by Agero

Novel Range of Lightweight Airbag Inflators Introduced by TRW Fairchild Semiconductor Offers 40V PowerTrench® MOSFET for Power Steering Applications

Superior Performance Millimeter-Wave Radar Developed by Denso Novel Dual-Coil Ignition System from BorgWarner BERU

Continental Supports Car to Car Communication Consortium for Car-to-X Communication

New Connector Technologies Demonstrated by Delphi

Melexis Launches First Monolithic Slave IC for LIN-Based RGB LED Control for Vehicle Lighting

Visteon Showcases Most Recent Automotive Electronics Innovations at Electronica 2012 in Munich

Toshiba Electronics Europe Develops Security Module

Denso Offers Large-Screen Head-Up Display

Denso Demonstrates the Universality of "Talking Car" Technology Language Novel Automotive 2.2 MHz Multiple Output Regulator Series Introduced by Allegro

Magna's Active Grille Shutter System Introduced

Integrated Stability Control and Electric Park Brake System to be Launched by TRW in 2014

STMicroelectronics Introduces Full-Digital Amplifier Range

Denso and Toyota in a Joint Development Agreement

Continental Partners with SAS Automotive Systems for Commercial Vehicle Cockpit Systems

TRW's New Electronic Horn System Developed

Garmin® Launches Novel In-Dash Navigation Features for Limited 2013 Model Year Chrysler® and Dodge® Vehicles

Allegro Launches New Automotive-Grade High Current LED Driver IC

Pioneer Launches Six New Single CD Receivers

New Vision Sensor for Active Safety Systems from Denso

Car Amplifier Portfolio Extended by Boss

Multimedia Infotainment System for Fiat Group Developed by Continental New Generation Car Infotainment Systems Released by STMicroelectronics TSVN Series Full Segment Digital Terrestrial TV (ISDB-T) Tuner for Automobiles Developed by Alps

Boss Audio Announces Availability of Full-Featured Navigation Receiver Clarion Introduces the CZ302E CD Car Radio

Alps Offers the UGXZD–G Series Bluetooth™ HCl Module with Antenna for Automobiles

SSCL Series Two-Way Detector Switch with Female Connector Terminal Developed by Alps

New Seatbelt System Launched by Autoliv

Pioneer Introduces AppRadio™ 2 with Android Connectivity

Cyber NAVI Car Navigation System Launched by Pioneer in Japan

Freescale Semiconductor and First Automobile Works Establish a Partnership

Wireless In-Vehicle Device Charging Under Development by Delphi New Range of Electronic Stability Control Systems Introduced by TRW Garmin® Forays into the In-Car Infotainment Market

Hyundai MOBIS Launches New Lighting Technologies

Commercial Embedded Navigation PONTUS BI-8300GT Introduced by Hyundai MOBIS

Renesas Electronics Unveils 14 New Intelligent Power Devices for Vehicle Body Applications

Agero's Novel Connected Vehicle Platform Bundled with New Infiniti Connection™

BorgWarner's First Two-Stage Turbocharging System for Commercial Vehicles Launched in Asia

Serial Flash Memory Devices for the Automotive Market from Windbond Eco-Friendly Airbag Inflator from Autoliv

Latest iPhone Car Radio Introduced by Boss

New-Generation RH850 Microcontroller for Auto Applications from Renesas Electronics

Development and Mass Production of HGPRDT Series High-Precision Latch 2-Phase Type Magnetic Sensor Undertaken by Alps

Advanced 3D Display Technology from Johnson Controls

Pioneer Unveils Two Reference Quality In-Vehicle Audio Components

Advanced Navigation Systems Introduced by Pioneer Visteon's In-Vehicle Wireless Charging Technology to be Introduced in 2013

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Agero Inc (United States)

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Borgwarner Inc (United States) Bose Corporation (United States)

Boss Audio Systems (United States)

Delphi Automotive (United States)

Garmin International Inc (United States)

General Motors Company (United States)

Onstar Corporation (United States)

General Motors Components Holdings LLC (United States)

Sirius XM Radio Inc (United States)

Harman International Industries Inc (United States)



### **GLOBAL AUTOMOTIVE ELECTRONICS** WITH SPECIAL FOCUS ON **OEMS MARKET**

Immersion Corporation (United States) Inteva Products (United States) Johnson Controls Inc (United States) Key Safety Systems Inc (United States) Lear Corporation (United States) Magna International Inc (Canada) Mcintosh Laboratory Inc (United States) Mentor Graphics Corporation (United States) Meritor Wabco Vehicle Control Systems (United States) Methode Electronics Inc (United States) Myron & Davis (United States) Nexteer Automotive (United States) Pioneer Electronics (USA) Inc (United States) Sanmina Corporation (United States) Sense Technologies Inc (United States) Standard Motor Products Inc (United States) Tenneco Inc (United States) TRW Automotive Holdings Corp (United States) Visteon Corporation (United States) 1.7 North American Market Overview by Country **1.7.1 THE UNITED STATES** 1.7.2 CANADA 1.7.3 MEXICO

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Redefines Business Acumen

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### MAJOR GLOBAL MARKET PLAYERS:

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