

## Semiconductor Market Forecasts



### CONTENTS

Report Overview

Market Segmentation

System Coverage

Example Tables

Table of Contents

Analyst Bio, About  
Semicast

Order Form

## Automotive Market for Semiconductors — 2013 Edition

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## Automotive Market for Semiconductors - Overview

### Key features of the study include:

- Part of the Automotive Electronics & Entertainment Systems Service.
- Coverage of the total market for automotive semiconductors, including OE and aftermarket.
- Estimate for worldwide production volumes of 35 OE automotive systems, with forecasts to 2019.
- Segmentation of semiconductor market into 17 product types, with forecasts to 2019.
- Regional analysis of automotive semiconductor market by North America, Europe, Japan, China and Rest of the World, with forecasts to 2019.
- Analysis of supplier market shares for OE automotive semiconductors in 2011.
- Highly quantitative analysis, with discussion summarized in short, easy to read bullet points.
- PDF and Excel delivery options available.

## Semiconductor Market Segmentation

The study provides analysis of the market for automotive semiconductors into 17 product types:

- 4/8-bit MCU
- 32/64-bit MCU/eMPU
- Memory
- PLD/FPGA
- General Purpose Analog
- IGBTs
- Rectifiers
- Actuators & Sensors
- Other Optoelectronics
- 16-bit MCU
- Digital Signal Processor (DSP)
- Gate Arrays & Standard Cells
- Other Logic
- Application Specific Analog
- MOSFETs
- Other Discretets & Modules
- LEDs

Further segmentation of the 32/64-bit MCU/eMPU category is also provided by architecture:

- ARM
- x64/x86
- 68K/Coldfire
- TriCore
- Other
- MIPS
- Power Architecture
- SuperH
- V850/RH850

## Automotive System Coverage

The system types included in the study are as follows:

**Body & Chassis:** Electronic Steering, Electronic Suspension, Conventional Cruise Control, Door Electronics, Seat Electronics, Electronic Instrument Clusters, Smart Junction Boxes, Air Conditioning, Electric Parking Brake, Rain & Light Sensors, Parking Assist, Exterior Solid State Lighting, Other Body & Chassis.

**Powertrain:** Engine Control & Ignition, Automatic Transmission.

**Safety:** Smart Airbag, Passive Airbag, Intelligent Cruise Control, Integrated Front Safety, Tire Pressure Warning, Driver Assistance Systems, ABS/TCS, Electronic Stability Control, Brake-by-wire.

**OE Security:** Keyless Entry, Alarms & Immobilizers, Vehicle Tracking.

**OE Entertainment:** Audio-only Source Units, Front Seat Infotainment, Rear Seat Entertainment, Embedded Navigation Systems, Embedded Telematics, Standalone Satellite Radio Tuners, Amplifiers, Autochangers.

**Aftermarket:** Audio-only Source Units, Front Seat Infotainment, Rear Seat Entertainment, Embedded Navigation Systems, Embedded Telematics, Standalone Satellite Radio Tuners, Amplifiers, Autochangers, Alarms & Immobilizers.

## Example Tables

An example of the format used to present the market forecasts is shown below and on the next page. The tables are taken from the OE Entertainment Systems section.

Global Production Forecasts For OE Entertainment Systems

Units (000's)	2011	2012	2013	2014	2015	2016	2017	2018	2019	CAGR (12/19)	DIFF (12-19)	SUM (12>19)
Audio-only Source Units										-	0	0
Front Seat Infotainment										-	0	0
Rear Seat Entertainment										-	0	0
Embedded Navigation Systems										-	0	0
Embedded Telematics & Comms										-	0	0
Standalone Satellite Radio Tuners										-	0	0
Amplifiers										-	0	0
Autochangers										-	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>0</b>	<b>0</b>



## Example Tables (continued)

Global Market for OE Automotive Semiconductors by Product

Revenues (US\$ Millions)	2011	2012	2013	2014	2015	2016	2017	2018	2019	CAGR (12/19)	DIFF (12-19)	SUM (12>19)
<b>Actuators &amp; Sensors</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
<b>Analog ICs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Application Specific Analog	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
General Purpose Analog	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
<b>Power Discretes &amp; Modules</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
IGBTs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
MOSFETs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Rectifiers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Other Discretes & Modules	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
<b>Logic ICs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Gate Arrays & Standard Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
PLD/FPGA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Other Logic	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
<b>MCU/eMPU/DSP</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
4/8-bit MCU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
16-bit MCU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
32/64-bit MCU/eMPU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-ARM sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-MIPS sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-Power Architecture sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-68K/Coldfire sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-SuperH sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-TriCore sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-V850/RH850 sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-x64/x86 sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-Other 32/64-bit sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Digital Signal Processor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
<b>Memory ICs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
<b>Optoelectronics</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
LEDs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Other Optoelectronics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>-</b>	<b>0.0</b>	<b>0.0</b>
<b>Annual Growth Rate</b>												

Global Market for OE Automotive Semiconductors by Region

Revenues (US\$ Millions)	2011	2012	2013	2014	2015	2016	2017	2018	2019	CAGR (12/19)	DIFF (12-19)	SUM (12>19)
North America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Europe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Japan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
China	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Rest of the World	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>-</b>	<b>0.0</b>	<b>0.0</b>

## Table of Contents

### Section 1 – Executive Overview

Key Point Conclusions

### Section 2 – Scope & Method

2.1 Research Method

2.2 Automotive Electronics & Entertainment Systems Service

### Section 3 – Global & Regional Light Vehicle Production Forecast

### Section 4 – Semiconductor TAM Analysis

### Section 5 – Body & Chassis Systems

### Section 6 – Powertrain Systems

### Section 7 – Safety Systems

### Section 8 – OE Security Systems

### Section 9 – OE Entertainment Systems

### Section 10 – Automotive Aftermarket

### Section 11 – Product Tables by Sector

### Section 12 – Regional Tables by Sector

### Appendix I – Summary of Key Points

#### List of Tables (61 tables)

Table 1.1 Global Market for OE Automotive Semiconductors by Product

Table 1.2 Market Share Estimates for Semiconductor Suppliers to the OE Automotive Sector in 2011

Table 1.3 Global Market for OE Automotive Semiconductors by Sub Sector

Table 1.4 Global Market for OE Automotive Semiconductors by Region

Table 1.5 Global Automotive System Production Forecast

Table 2.1 System Definitions

Table 3.1 Global Light Vehicle Production Forecast by Region

Table 3.2 Light Vehicle Production Forecast in Brazil, Russia, India & China

Table 3.3 Worldwide 2011 Light Vehicle Production Market Share Ranking by Vehicle Manufacturer

Table 4.1 Analysis of the World Market for Semiconductors in the OE Automotive Sector in 2011

Table 5.1 Global Production Forecasts For Body & Chassis Systems

Table 5.2 Global Market for Semiconductors in Body & Chassis Systems by Product

Table 5.3 Global Market for Semiconductors in Body & Chassis Systems by Region

Table 6.1 Global Production Forecasts For Powertrain Systems

Table 6.2 Global Forecast For Hybrid & Electric Light Vehicle Production

Table 6.3 Global Market for Semiconductors in Powertrain Systems by Product

Table 6.4 Global Market for Semiconductors in Powertrain Systems by Region

Table 7.1 Global Production Forecasts For Safety Systems

Table 7.2 Global Market for Semiconductors in Safety Systems by Product

Table 7.3 Global Market for Semiconductors in Safety Systems by Region

Table 8.1 Global Production Forecasts For OE Security Systems

Table 8.2 Global Market for Semiconductors in OE Security Systems by Product

Table 8.3 Global Market for Semiconductors in OE Security Systems by Region

Table 9.1 Global Production Forecasts For OE Entertainment Systems

Table 9.2 Global Market for Semiconductors in OE Entertainment Systems by Product

Table 9.3 Global Market for Semiconductors in OE Entertainment Systems by Region

Table 10.1 Global Production Forecasts For Automotive Aftermarket Systems

Table 10.2 Global Market for Semiconductors in Automotive Aftermarket Systems by Product

Table 10.3 Global Market for Semiconductors in Automotive Aftermarket Systems by Region

Table 11.1 Automotive Market for Actuators & Sensors by Sub-sector

Table 11.2 Automotive Market for Application Specific Analog ICs by Sub-sector

Table 11.3 Automotive Market for General Purpose Analog ICs by Sub-sector

Table 11.4 Automotive Market for IGBTs by Sub-sector

Table 11.5 Automotive Market for MOSFETs by Sub-sector

Table 11.6 Automotive Market for Rectifiers by Sub-sector

Table 11.7 Automotive Market for Other Discretes & Modules by Sub-sector

Table 11.8 Automotive Market for Gate Arrays & Standard Cells by Sub-sector

Table 11.9 Automotive Market for PLDs/FPGAs by Sub-sector

Table 11.10 Automotive Market for Other Logic by Sub-sector

Table 11.11 Automotive Market for 4/8-bit MCUs by Sub-sector

Table 11.12 Automotive Market for 16-bit MCUs by Sub-sector

Table 11.13 Automotive Market for 32/64-bit MCUs/eMPUs by Sub-sector

Table 11.14 Automotive Market for ARM-based MCUs/eMPUs by Sub-sector

Table 11.15 Automotive Market for MIPS-based MCUs/eMPUs by Sub-sector

Table 11.16 Automotive Market for Power Architecture-based MCUs/eMPUs by Sub-sector

Table 11.17 Automotive Market for 68K/Coldfire-based MCUs/eMPUs by Sub-sector

Table 11.18 Automotive Market for SuperH-based MCUs/eMPUs by Sub-sector

Table 11.19 Automotive Market for TriCore-based MCUs/eMPUs by Sub-sector

Table 11.20 Automotive Market for V850/RH850-based MCUs/eMPUs by Sub-sector

Table 11.21 Automotive Market for x64/x86-based MCUs/eMPUs by Sub-sector

Table 11.22 Automotive Market for Other 32/64-bit MCUs/eMPUs by Sub-sector

Table 11.23 Automotive Market for DSPs by Sub-sector

Table 11.24 Automotive Market for Memory by Sub-sector

Table 11.25 Automotive Market for LEDs by Sub-sector

Table 11.26 Automotive Market for Other Optoelectronics by Sub-sector

Table 12.1 North American Automotive Market for Semiconductors by Sub-sector

Table 12.2 European Automotive Market for Semiconductors by Sub-sector

Table 12.3 Japanese Automotive Market for Semiconductors by Sub-sector

Table 12.4 Chinese Automotive Market for Semiconductors by Sub-sector

Table 12.5 Rest of the World Automotive Market for Semiconductors by Sub-sector

#### List of Figures (8 figures)

Figure 1: Long Term Evolution of Global OE Automotive Semiconductor Market Compared with Light Vehicle Production

Figure 2: Global Market for OE Automotive Semiconductors by Sub-Sector

Figure 3: Global Automotive Market For Semiconductors

Figure 4: Average Semiconductor Content Per Light Vehicle

Figure 5: Global Market for OE Automotive Semiconductors by Region

Figure 6: Automotive OE System Production Volume Forecast by Sub-Sector

Figure 7: Global Light Vehicle Production by Region

Figure 8: Hybrid Vehicle & Electric Vehicle Production

## Analyst Biography

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Colin joined Semicast Research in June 2006 and is principal analyst for semiconductor research and vice president of business development. Prior to joining Semicast, he worked for 12 years at IMS Research, rising to the position of Senior Research Director of its Semiconductor Research Group and responsible for analyst coverage on the analog/mixed signal, optoelectronic and embedded processing industries. Colin also set-up and established IMS Research's Automotive Electronics Group. During his tenure, Colin authored dozens of reports and became a well respected industry analyst. He holds a B.S. in Electronic Engineering from Aston University, England and has covered the automotive market since 1999.

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