

## Semiconductor Market Forecasts



### **Automotive Market for Semiconductors — 2017 Edition**

**Market Analysis and Forecasts to 2023  
November 2016 | 91 Pages**

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## Automotive Market for Semiconductors — Report 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 37 OE automotive systems, with forecasts to 2023.
- Segmentation of semiconductor market into 18 product types, with forecasts to 2023.
- Regional analysis of automotive semiconductor market by North America, Europe, Japan, China and Rest of the World, with forecasts to 2023.
- Analysis of supplier market shares for OE automotive semiconductors in 2015.
- 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 18 product types:

- 4/8-bit MCU
- 32/64-bit MCU/MPU
- Gate Arrays & Standard Cells
- Other Logic
- MOSFET's
- IGBTs
- Other Discretets & Modules
- DRAM/SRAM
- LEDs
- 16-bit MCU
- DSP
- PLD/FPGA
- General Purpose Analog
- Application Specific Analog
- Rectifiers
- Actuators & Sensors
- PROM/EPROM/Flash/Other Memory
- Other Optoelectronics

Further segmentation of the 32/64-bit MCU/MPU category is also provided as follows:

- ARM MCU
- MIPS
- Power Architecture
- SuperH
- V850/RH850
- ARM MPU
- x86
- 68K/Coldfire
- TriCore
- Other 32/64-bit



## 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, Center Stack Displays, Smart Junction Boxes, Air Conditioning, Electric Parking Brake, Rain & Light Sensors, Passive Park Assist, Exterior Solid State Lighting, Other Body & Chassis.

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

**Safety:** Smart Airbag, Passive Airbag, Tire Pressure Warning, ABS/TCS, Electronic Stability Control, Brake-by-wire.

**ADAS:** Autonomous Park Assist, Intelligent Cruise Control, Integrated Front Safety, Blind Spot Monitoring, Night Vision Assist, Head-Up Display.

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

**OE Entertainment:** Audio-only Source Units, Front Seat Infotainment, Rear Seat Entertainment, Embedded Navigation Systems, Embedded Communications Modules, Amplifiers, Autochangers.

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

## Example Tables

Example tables taken from the report showing the format used to present the market forecasts are shown below.

World Production Forecasts For ADAS

Units (KU)	2015	2016	2017	2018	2019	2020	2021	2022	2023	CAGR (16/23)	DIFF (16-23)	SUM (16>23)
Autonomous Park Assist	0	0	0	0	0	0	0	0	0	-	0	0
Intelligent Cruise Control	0	0	0	0	0	0	0	0	0	-	0	0
Integrated Front Safety	0	0	0	0	0	0	0	0	0	-	0	0
Blind Spot Monitoring	0	0	0	0	0	0	0	0	0	-	0	0
Night Vision Assist	0	0	0	0	0	0	0	0	0	-	0	0
Head-Up Display	0	0	0	0	0	0	0	0	0	-	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)

World Market for Semiconductors in ADAS by Product

Revenues (US\$ Millions)	2015	2016	2017	2018	2019	2020	2021	2022	2023	CAGR (16/23)	DIFF (16-23)	SUM (16>23)
<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/MPU/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/MPU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-ARM MCU sub-total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
-ARM MPU 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
-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
DSP	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
DRAM/SRAM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
PROM/EPROM/Flash/Other	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>Year-on-year Growth</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

World Market for Semiconductors in ADAS by Region

Revenues (US\$ Millions)	2015	2016	2017	2018	2019	2020	2021	2022	2023	CAGR (16/23)	DIFF (16-23)	SUM (16>23)
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>



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## Analyst Biography

Colin Barnden - Principal Analyst



Colin joined Semicast Research in 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 more than twenty years of experience as an industry analyst.

## About Semicast

Founded in 2006, Semicast has an established reputation at most top 20 semiconductor suppliers, with areas of expertise covering industrial and medical electronics and semiconductors; industrial IoT; automotive electronic controllers; automotive audio, infotainment & navigation systems; automotive semiconductors; and 32-bit microcontrollers.

With more than twenty years of market research experience, our analysts use a combination of technical expertise, a proven method for producing electronics focused market research and specific applications knowledge to produce concise and timely research to help you make effective business decisions.

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