

Semiconductor Market Forecasts



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Automotive Market for Semiconductors (2009 Edition)

Market Analysis and Forecasts to 2017 | October 2009 | 91 Pages

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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 2017.
- Segmentation of semiconductor market into 18 product types, with forecasts to 2017.
- Regional analysis of automotive semiconductor market by North America, Europe, Japan, China and Rest of the World, with forecasts to 2017.
- Analysis of supplier market shares for OE automotive semiconductors in 2008.
- 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
- Memory
- PLD/FPGA
- Standard Linear
- IGBTs
- Rectifiers
- Actuators & Sensors
- LCDs
- 16-bit MCU
- Digital Signal Processor (DSP)
- Gate Arrays & Standard Cells
- Other Logic
- Application Specific Analog
- MOSFETs
- Other Discretets
- LEDs
- Other Optoelectronics

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

- ARM
- x86
- 68K/Coldfire
- Other
- MIPS
- Power Architecture
- SuperH

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, Collision Mitigation, 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)	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	CAGR (08/17)	DIFF (08-17)	SUM (08>17)
Audio-only Source Units											0.0%	0	0
Front Seat Infotainment											0.0%	0	0
Rear Seat Entertainment											0.0%	0	0
Embedded Navigation Systems											0.0%	0	0
Embedded Telematics											0.0%	0	0
Standalone Satellite Radio Tuners											0.0%	0	0
Amplifiers											0.0%	0	0
Autochangers											0.0%	0	0
Total	0	0	0	0	0	0	0	0	0	0	0.0%	0	0

Source: Semicast Research

Example Tables (continued)

Global Market for Semiconductors & LCDs in OE Entertainment Systems by Product

Revenues (US\$ Millions)	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	CAGR (08/17)	DIFF (08-17)	SUM (08>17)
Actuators & Sensors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0	0.0
Analog ICs	0.0	0.0	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%	0.0	0.0
Standard Linear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0	0.0
Discretes	0.0	0.0	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%	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%	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%	0.0	0.0
Other Discretes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0	0.0
Logic ICs	0.0	0.0	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%	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%	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%	0.0	0.0
MCU/MPU/DSP	0.0	0.0	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%	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%	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%	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%	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%	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%	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%	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%	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%	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%	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%	0.0	0.0
Memory ICs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0	0.0
Optoelectronics	0.0	0.0	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%	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%	0.0	0.0
LCDs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0	0.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0	0.0
Total (excluding LCDs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0.0	0.0

Source: Semicast Research

Global Market for Semiconductors & LCDs in OE Entertainment Systems by Region

Revenues (US\$ Millions)	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	CAGR (08/17)	DIFF (08-17)	SUM (08>17)
North America	0.0	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%	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%	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%	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%	0	0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	0	0

Source: Semicast Research

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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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