

Semiconductor Market Forecasts



Automotive Market for Semiconductors — 2018 Edition

**Market Analysis and Forecasts to 2024
November 2017 | 96 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 38 OE automotive systems, with forecasts to 2024.
- Segmentation of semiconductor market into 19 product types, with forecasts to 2024.
- Regional analysis of automotive semiconductor market by North America, Europe, Japan, China and Rest of the World, with forecasts to 2024.
- Analysis of supplier market shares for OE automotive semiconductors in 2016.
- 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 19 product types:

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

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, Automated Driving Computer, Driver Monitoring Systems, 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)	2016	2017	2018	2019	2020	2021	2022	2023	2024	CAGR (17/24)	DIFF (17-24)	SUM (17>24)
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
Automated Driving Computer	0	0	0	0	0	0	0	0	0	-	0	0
Driver Monitoring Systems	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
Total	0	0	0	0	0	0	0	0	0	-	0	0
Year-on-year Growth		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

Example Tables (continued)

World Market for Semiconductors in ADAS by Product

Revenues (US\$ Millions)	2016	2017	2018	2019	2020	2021	2022	2023	2024	CAGR (17/24)	DIFF (17-24)	SUM (17>24)
Actuators & Sensors	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
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
Power Discretes & Modules	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
Logic ICs	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
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
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
Memory ICs	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
Optoelectronics	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
Image Sensors & MMICs	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
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Year-on-year Growth		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)	2016	2017	2018	2019	2020	2021	2022	2023	2024	CAGR (17/24)	DIFF (17-24)	SUM (17>24)
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
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Year-on-year Growth		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

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 — World & Regional Light Vehicle Production Forecast

Section 4 — Semiconductor TAM

Section 5 — Body & Chassis Systems

Section 6 — Powertrain Systems

Section 7 — Safety Systems

Section 8 — ADAS

Section 9 — OE Security Systems

Section 10 — OE Entertainment

Section 11 — Automotive Aftermarket

Section 12 — Product Tables by Sector

Section 13 — Regional Tables by Sector

Appendix 1 — Historical Market Forecasts

List of Tables

Table 1.1 World Market for OE Automotive Semiconductors by Product - Revenues
Table 1.2 World Market for OE Automotive Semiconductors by Product - Unit Forecast
Table 1.3 Market Share Estimates for Semiconductor Suppliers to the OE Automotive Sector in 2016
Table 1.4 World Market for OE Automotive Semiconductors by Sub-Sector
Table 1.5 World Market for OE Automotive Semiconductors by Region
Table 1.6 World Automotive System Production Forecast
Table 2.1 System Definitions
Table 3.1 World Light Vehicle Production Forecast by Region
Table 3.2 Light Vehicle Production Forecast in Brazil, Russia, India & China
Table 4.1 Analysis of the World Market for Semiconductors in the OE Automotive Sector in 2016
Table 5.1 World Production Forecasts For Body & Chassis Systems
Table 5.2 World Market for Semiconductors in Body & Chassis Systems by Product
Table 5.3 World Market for Semiconductors in Body & Chassis Systems by Region
Table 6.1 World Production Forecasts For Powertrain Systems
Table 6.2 World Forecast For Hybrid & Electric Light Vehicle Production
Table 6.3 World Market for Semiconductors in Powertrain Systems by Product
Table 6.4 World Market for Semiconductors in

Powertrain Systems by Region

Table 7.1 World Production Forecasts For Safety Systems
Table 7.2 World Market for Semiconductors in Safety Systems by Product
Table 7.3 World Market for Semiconductors in Safety Systems by Region
Table 8.1 World Production Forecasts For ADAS
Table 8.2 World Summary for Light Vehicle Production by SAE Automation Level (L0-5)
Table 8.3 World Market for Semiconductors in ADAS by Product
Table 8.4 World Market for Semiconductors in ADAS by Region
Table 9.1 World Production Forecasts For OE Security Systems
Table 9.2 World Market for Semiconductors in OE Security Systems by Product
Table 9.3 World Market for Semiconductors in OE Security Systems by Region
Table 10.1 World Production Forecasts For OE Entertainment Systems
Table 10.2 World Market for Semiconductors in OE Entertainment Systems by Product
Table 10.3 World Market for Semiconductors in OE Entertainment Systems by Region
Table 11.1 World Production Forecasts For Automotive Aftermarket Systems
Table 11.2 World Market for Semiconductors in Automotive Aftermarket Systems by Product
Table 11.3 World Market for Semiconductors in Automotive Aftermarket Systems by Region
Table 12.1 Automotive Market for Actuators & Sensors by Sub-sector
Table 12.2 Automotive Market for Application Specific Analog ICs by Sub-sector
Table 12.3 Automotive Market for General Purpose Analog ICs by Sub-sector
Table 12.4 Automotive Market for IGBTs by Sub-sector
Table 12.5 Automotive Market for MOSFETs by Sub-sector
Table 12.6 Automotive Market for Rectifiers by Sub-sector
Table 12.7 Automotive Market for Other Discretes & Modules by Sub-sector
Table 12.8 Automotive Market for Gate Arrays & Standard Cells by Sub-sector
Table 12.9 Automotive Market for PLDs/FPGAs by Sub-sector
Table 12.10 Automotive Market for Other Logic by Sub-sector
Table 12.11 Automotive Market for 4/8-bit MCUs by Sub-sector
Table 12.12 Automotive Market for 16-bit MCUs by Sub-sector
Table 12.13 Automotive Market for 32/64-bit MCUs/MPUs by Sub-sector
Table 12.14 Automotive Market for ARM-based MCUs by Sub-sector

Table 12.15 Automotive Market for ARM-based MPUs by Sub-sector
Table 12.16 Automotive Market for MIPS-based MCUs/MPUs by Sub-sector
Table 12.17 Automotive Market for Power Architecture-based MCUs/MPUs by Sub-sector
Table 12.18 Automotive Market for 68K/Coldfire-based MCUs/MPUs by Sub-sector
Table 12.19 Automotive Market for SuperH-based MCUs/MPUs by Sub-sector
Table 12.20 Automotive Market for TriCore-based MCUs/MPUs by Sub-sector
Table 12.21 Automotive Market for V850/RH850-based MCUs/MPUs by Sub-sector
Table 12.22 Automotive Market for x86-based MCUs/MPUs by Sub-sector
Table 12.23 Automotive Market for Other 32/64-bit MCUs/MPUs by Sub-sector
Table 12.24 Automotive Market for DSPs by Sub-sector
Table 12.25 Automotive Market for DRAM/ SRAM by Sub-sector
Table 12.26 Automotive Market for PROM/ EPROM/Flash/Other Memory by Sub-sector
Table 12.27 Automotive Market for LEDs by Sub-sector
Table 12.28 Automotive Market for Image Sensors & MMICs by Sub-sector
Table 12.29 Automotive Market for Other Optoelectronics by Sub-sector
Table 13.1 North American Automotive Market for Semiconductors by Sub-sector
Table 13.2 European Automotive Market for Semiconductors by Sub-sector
Table 13.3 Japanese Automotive Market for Semiconductors by Sub-sector
Table 13.4 Chinese Automotive Market for Semiconductors by Sub-sector
Table 13.5 Rest of the World Automotive Market for Semiconductors by Sub-sector

List of Figures

Figure 1 Long Term Evolution of World OE Automotive Semiconductor Market Compared with Light Vehicle Production
Figure 2 OE Automotive Market for Semiconductors Comparisons with Historical Revenue Forecasts
Figure 3 World Market for OE Automotive Semiconductors by Sub-Sector
Figure 4 World Automotive Market For Semiconductors
Figure 5 Average Semiconductor Content Per Light Vehicle
Figure 6 World Market for OE Automotive Semiconductors by Region
Figure 7 Automotive OE System Production Volume Forecast by Sub-Sector
Figure 8 World Light Vehicle Production
Figure 9 Hybrid Vehicle & Electric Vehicle Production

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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