

Market Analysis & Forecasts



Advanced Driver Assistance Systems (ADAS) & Semiconductors in ADAS — 2017 Edition

Analysis of global and regional market trends for ADAS and forecasts for semiconductors in ADAS | April 2017 | 50 Pages

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Advanced Driver Assistance Systems (ADAS) & Semiconductors in ADAS — Report Overview

Key features of the study include:

- Summary report using data from Semicast's Automotive Electronics & Entertainment Systems Service.
- Coverage of intelligent cruise control, integrated front safety, autonomous park assist, blind spot monitoring, head-up display and night vision assist.
- Analysis of market trends for each system in nine geographic regions: North America, Europe, Japan, China, South Korea, India, Russia, Brazil and Rest of the World.
- Analysis of system installation rates, units and ECU ASP for each system, in each region. Base year is 2016, with forecasts to 2023.
- ADAS electronics supplier market share estimates in 2016.
- Highly quantitative analysis, with discussion summarized in short, easy to read bullet points.
- PDF and Excel delivery included.
- For full details of Semicast's Automotive Electronics & Entertainment Systems Service, please [click here](#)

ADAS System Coverage

The report analyzes the market in units and revenues for six ADAS systems. 2016 is used as the base year with forecasts to 2023.

- Intelligent Cruise Control
- Integrated Front Safety
- Autonomous Park Assist
- Blind Spot Monitoring
- Head-Up Display
- Night Vision Assist

Regional Analysis

For each system, regional breakdowns in terms of region of vehicle production are presented as follows:

- North America
- Europe
- Japan
- China
- South Korea
- India
- Russia
- Brazil
- Rest of the World

Market Metrics

Further segmentation is provided by region, by system type, as follows:

- Installation Rate
- Units Installed
- ECU ASP (\$)
- Revenues (\$)

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Additional System Analysis

For autonomous park assist, additional analysis of the market is presented as follows: standard, smartphone/smartwatch, valet parking.

Example Table

An example table taken from the report showing the format used to present the market forecasts is shown below.

World Market for Autonomous Park Assist by Region

Region	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	CAGR (16/23)	DIFF (16-23)	SUM (16>23)
North America													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
Europe													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
Japan													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
China													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
South Korea													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
India													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
Russia													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
Brazil													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
Rest of the World													
Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
Revenues /\$m	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
World Installation Rate	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
World Units Installed /KU	0	0	0	0	0	0	0	0	0	0	0.0%	0	0
World ECU ASP /\$	0	0	0	0	0	0	0	0	0	0	0.0%	0	
World Revenues /\$m	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
Year-on-year Growth		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

Semiconductor Coverage

The report analyzes the market for semiconductors in ADAS using the following product categories:

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

Example Table

An example table taken from the report showing the format used to present the market forecasts is shown below.

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)
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
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
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
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	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	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
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
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
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	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
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
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
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
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
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
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
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
-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	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	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
-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
-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
-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
-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	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	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
-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
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
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
DRAM/SRAM	0.0	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	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
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
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
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
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)	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	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

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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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