

Market Analysis & Forecasts



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Under-the-hood Automotive Electronic Systems — 2012 Edition

Analysis of global and regional market trends for 32 under-the-hood automotive electronic systems | November 2011 | 142 Pages

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Under-the-hood Automotive Electronic Systems — Overview

Key features of the study include:

- Coverage of 32 “under-the-hood” automotive electronic systems, comprising body, chassis, powertrain, safety and security systems.
- 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 2011, with forecasts to 2018.
- Under-the-hood automotive electronic system supplier market share analysis in 2011.
- Highly quantitative analysis, with discussion summarized in short, easy to read bullet points.
- PDF and Excel delivery options available.

System Coverage

The report analyzes the market in units and revenues for 32 under-the-hood electronic systems. Factory fit (OE) systems are included; aftermarket systems are excluded. 2011 is used as the base year with forecasts to 2018.

- | | | |
|-------------------------------|---------------------------------|----------------------------------|
| • Smart Airbag | • Passive Airbag | • Electro-hydraulic Steering |
| • Electric Power Steering | • Steer-by-wire | • Electronic Suspension |
| • Conventional Cruise Control | • Intelligent Cruise Control | • Front Door Electronics |
| • Rear Electric Windows | • Integrated Front Safety | • Electronic Instrument Clusters |
| • Air Conditioning | • Seat Electronics | • Smart Junction Boxes |
| • ABS/TCS | • Exterior Solid State Lighting | • Other Body Electronics |
| • Rain & Light Sensors | • Electronic Stability Control | • Brake-by-wire |
| • Automatic Transmission | • Tire Pressure Warning | • Engine Control & Ignition |
| • Vehicle Tracking | • Keyless Entry | • Alarms/Immobilizers |
| • Blind Spot Monitoring | • Night Vision Assist | • Electric Parking Brake |
| • Passive Parking Assist | • Active Parking 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 (\$)

Additional System Analysis

For each of the following systems, additional analysis of the market is presented as follows:

- **Exterior solid state lighting** into: central high mount LED stop lamp, LED daytime running lamp, LED headlamps, other LED exterior lighting.
- **Passive parking assist** into: basic systems, advanced systems.
- **Automatic transmission** into: stepped automatic, continuously variable (CVT), other.
- **Light vehicle production by propulsion type** into: gasoline, diesel, electric vehicle.
- **Light vehicle production** into: conventional combustion, start-stop hybrid, full hybrid/plug-in hybrid, electric vehicle.
- **Tire pressure warning systems by system type** into: ABS-based, direct.
- **Keyless entry by system type** into: active entry, passive entry.

Sample Table

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

World Market for Engine Control & Ignition by Region

Region	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	CAGR (11/18)	DIFF (11-18)	SUM (11>18)
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
ECU ASP /\$	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
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
ECU ASP /\$	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
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
ECU ASP /\$	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
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
ECU ASP /\$	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
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
ECU ASP /\$	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
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
ECU ASP /\$	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
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
ECU ASP /\$	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
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
ECU ASP /\$	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
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
ECU ASP /\$	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
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	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
Annual Growth Rate		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 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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