

Semiconductor Market Forecasts



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32/64-bit Microcontrollers, Embedded Microprocessors & General Purpose DSPs — 2011 Edition

Global Market Analysis by Architecture & Application to 2016
Published August 2011 | 132 Pages

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32/64-bit MCU/eMPUs & DSPs - Report Overview

Key features of the study include:

- Coverage of the market for 32/64-bit microcontrollers, embedded microprocessors & DSPs.
- Analysis of 23 application areas, providing detailed coverage of each end-use sector.
- Unit, revenue and average pricing (ASP) analysis for each application area.
- Supplier market share estimates (in revenues) in 2010.
- Highly quantitative analysis, with discussion summarized in short, easy to read bullet points.
- PDF and Excel delivery options available.

Application Analysis

The study provides analysis of the market for 32/64-bit MCUs/eMPUs & DSPs in each of the following application areas.

- Automotive Under-the-Hood Electronics
- Automotive Aftermarket
- Enterprise Customer Premises Equipment
- Wireless Communications Infrastructure
- HDDs & Storage Systems
- Wired Games Consoles
- eBook Readers/Media Tablets/Netbooks
- Cameras & Camcorders
- DVD Recorders & Players
- Other Consumer Electronics
- Medical Electronics
- Other Industrial Electronics
- Automotive OE Entertainment Systems
- Cellphones
- Wired Communications Infrastructure
- Compute Platforms
- Office Equipment & Computer Peripherals
- Handheld Games Consoles
- Media Players/MP3 Players
- Digital TVs & Set-top Boxes
- Residential Customer Premises Equipment
- Automation & Drives
- Chips Cards & Payment Processing

For each application area, the study provides analysis of units, revenues and average pricing (ASP) for each of the following product types. Base year for analysis is 2010, with forecasts to 2016.

- ARM-based MCUs/eMPUs
- Power Architecture-based MCUs/eMPUs
- x64/x86-based MCUs/eMPUs
- "Other 32/64-bit" MCUs/eMPUs
- MIPS-based MCUs/eMPUs
- 68K/Coldfire-based MCUs/eMPUs
- SuperH-based MCUs/eMPUs
- General Purpose DSPs

Example Table

For each application area, the study provides analysis as shown below.

Architecture	2010	2011	2012	2013	2014	2015	2016	CAGR (10/16)	DIFF (10-16)	SUM (10>16)
ARM-based MCU/eMPU										
Revenues (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Average Price (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
MIPS-based MCU/eMPU										
Revenues (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Average Price (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
Power Architecture-based MCU/eMPU										
Revenues (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Average Price (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
68K/Coldfire-based MCU/eMPU										
Revenues (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Average Price (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
x64/x86-based MCU/eMPU										
Revenues (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Average Price (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
SuperH-based MCU/eMPU										
Revenues (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Average Price (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
Other 32/64-bit MCU/eMPU										
Revenues (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Average Price (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
General Purpose DSP										
Revenues (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Average Price (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
Total Revenues (\$m)	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%			
Total Units (MU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Sector ASP (\$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		
32-bit MCU (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
32-bit eMPU (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
64-bit eMPU (\$m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0

Source: Semicast Research

Table Revised: July 2011

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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.

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