Semiconductor Market Forecasts

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One of a series of 4 reports on ARM, MIPS, Power Architecture & x64/x86 in Embedded Processing | Published July 2011 | 98 Pages

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Opportunities for ARM in Embedded Processing - Report Overview

Key features of the study include:

- Part of the Embedded Processing Service.
- One of a series of reports on ARM, MIPS, Power Architecture & x64/x86 in Embedded Processing.
- Coverage of the market for ARM-based MCUs, eMPUs, ASICs/ASSPs and FPGAs.
- Analysis of 23 application areas, providing detailed coverage of each end-use sector.
- Unit, revenue and average pricing (ASP) analysis for ARM-based MCUs, eMPUs, ASICs/ASSPs and FPGAs in each application. Base year is 2010, with forecasts to 2016.
- 2010 supplier market share estimates for ARM-based embedded processors.
- 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 ARM-based embedded processors 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:

- ARM-based MCUs
- ARM-based ASICs/ASSPs
- ARM-based eMPUs
- ARM-based FPGAs

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Example Tables

Opportunities for ARM in Embedded Processing by Application - Revenue Summary

Revenues ($m)	2010	2011	2012	2013	2014	2015	2016	CAGR (10/16)	DIFF (10-16)	SUM (10>16)
Automotive	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**0.0**	**0.0**
Automotive Under-the-hood Electronics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Automotive OE Entertainment Systems	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Automotive Aftermarket	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Communications	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**0.0**	**0.0**
Cellphones	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Enterprise Customer Premises Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Wired Communications Infrastructure	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Wireless Communications Infrastructure	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Computer	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**0.0**	**0.0**
Compute Platforms	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
HDDs & Storage Systems	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Office Equipment & Computer Peripherals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Consumer	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**0.0**	**0.0**
Wired Games Consoles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Handheld Games Consoles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
eBook Readers/Media Tablets/Netbooks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Media Players/MP3 Players	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Cameras & Camcorders	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Digital TVs & Set-top Boxes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
DVD Recorders & Players	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Residential Customer Premises Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Other Consumer Electronics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Industrial/Medical	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**0.0**	**0.0**
Automation & Drives	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Medical Electronics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Chips Cards & Payment Processing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
Other Industrial Electronics	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**
Year-on-year Growth		**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**			

Source: Semicast Research **Table Revised: July 2011**

Opportunities for ARM-based Embedded Processors in eBook Readers/Media Tablets/Netbooks

Product Type	2010	2011	2012	2013	2014	2015	2016	CAGR (10/16)	DIFF (10-16)	SUM (10>16)
ARM-based MCU										
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	-	**0.0%**	**0.0%**
ARM-based 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	-	**0.0%**	**0.0%**
ARM-based ASIC/ASSP										
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	-	**0.0%**	**0.0%**
ARM-based FPGA										
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	-	**0.0%**	**0.0%**
Total Revenues ($m)	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**0.0**	**0.0**
Total Units (MU)	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**0.0**	**0.0**
Sector ASP ($)	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**		

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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