

2009 Digital Signal Processors

Semiconductor Product Markets – Worldwide



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Susie Inouye

Myson Robles-Bruce

Matt Scherer

Publication Number: 09SemiProd-DSP

December 2009

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Reno, NV 89523

Phone: 775.624.6200

www.databeans.net

Abstract

Over 70 percent of digital signal processor revenue comes from communications market applications, with much of that coming specifically from mobile phones; but even outside of those areas there are opportunities for growth in consumer electronics, and in some industrial market segments like medical electronics, which increases demand for design innovations and supplier commitment.

DSPs can be considered part of a larger embedded processors market - along with microcontrollers. The latest consumer electronics, whether for home use, or mobile use, or in-vehicle use, are becoming rich with graphics, audio, and data features and functions. This trend is especially true of the latest smartphones coming into the market. These more advanced devices are requiring better component support for complex processing, which necessitates going beyond embedded microcontrollers, into utilizing in many designs a DSP along with an application processor, for example. Also dedicated DSP components are being superseded by DSPs that can be reprogrammed.

The DSP market constitutes just 2 percent of the entire semiconductor market. The market is valued at \$5.3 billion for this year, assuming a volume of 1.5 billion units shipped. Databeans expects this market to grow at a rate of 11 percent on average per year, for the duration of the forecast period through year 2014.

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Publication Number: 09SemiProd-DSP
Research Analyst: Susie Inouye
✉ sinouye@databeans.net
Research Analyst: Matt Scherer
✉ matt@databeans.net
Research Analyst: Myson Robles-Bruce
✉ myson@databeans.net
