

Microcontrollers, DSP, & IP Core Chip Market by Type, Applications (Automotive & Transportation, Consumer Electronics, Industrial, Communications, Security, and Medical & Healthcare) and Geography (Americas, Europe, APAC & ROW) - Analysis & Forecast to 2014 – 2020

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Abstracts

A microcontroller contains a processor core, memory, and programmable input/output peripherals, which means small computer on a single integrated circuit. Microcontrollers are used in devices which have automatic control functions such as medical devices, power tools, and smart homes devices. Any control system is brainless without microcontrollers. A DSP can be used for the enhancement of signal strength and also for the signal filtering purpose. DSP is majorly used for processing the digital signal to provide the needed signal strength. An IP (Intellectual Property) core is a revolution in the electronic design, which is a reusable unit or logic, cell, or a chip layout design and is an Intellectual Property of one party, which may be licensed to another party or can be used and owned and used by a single party alone.

Average Selling Price (ASP) of microcontroller is decreasing year on year, owing to high intense competition and increased number of foundries are declining the microcontroller's price, which is further driving the market. Microcontrollers are used in numerous devices to deliver high performance and controllable output through devices. ARM cores are another major driver for the growth of the microcontroller market. ARM cores is observed to witness rapid adoption as it offers high performance capabilities and advanced technological feature.

Increased numbers of new devices and applications, such as wearable electronics,

smartphone and tablets, imaging devices, and more, drive the demand of DSP. Applications such as mobile TV, online gaming, and Internet browsing increase the demand of DSP. These devices have created real time applications that have generated huge data, leading to demand of multi-core DSPs. DSPs provide low power consumption and high speed, which are required for new age devices.

In semiconductor, technology changes vary rapidly, so chip manufacturers decided to go for third party to reduce the cost and time to market. Adoption of third party IP core chips has created and is continuously creating demand of IP core chips. IP vendors rapidly adopt changes in technology and apply these changes in their design to sell it to chip manufacturers. This helps the chip manufacturers to save their cost, time to market, and stay ahead in the intense competition.

Some of the key players in this market include Analog Devices, Inc. (U.S.), Freescale Semiconductor, Inc. (U.S.), STMicroelectronics N.V. (Switzerland), Panasonic Corp. (Japan), Infineon Technologies AG (Germany), Renesas Electronics Corp (Japan), Maxim Integrated Products, Inc. (U.S.), Texas Instruments Inc. (U.S.), Xilinx, Inc. (U.S.), Altera Corp. (U.S.), ARM Holdings PLC (U.K.), Cadence Design Systems (U.S.), and Ceva Inc. (U.S.).

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