

Heterogeneous Mobile Processing & Computing Market by Component (processor, GPU, DSP, connectivity), Technology Node (45NM-5NM), Application (Consumer, Tele-communication, Automotive, MDA, Medical), & Geography - Forecast & Analysis to 2014 – 2020

<https://marketpublishers.com/r/H2C48735617EN.html>

Date: July 2014

Pages: 271

Price: US\$ 5,650.00 (Single User License)

ID: H2C48735617EN

Abstracts

Heterogeneous mobile processing (HMP) and computing defines the architecture in which processors, DSPs (Digital Signal Processor), GPUs (Graphic Processing Units), connectivity solutions (Wi-Fi, Bluetooth), and software are being integrated to accelerate the performance and computational abilities of System on Chip (SoC). These entire components work simultaneously to improve the performance and speed of the device. The ever-increasing demands for High Definition (HD) and optimal performance are some of the factors contributing for the growth of Heterogeneous mobile processing (HMP) and computing market.

Heterogeneous mobile processing (HMP) and computing market is an emerging trend in processing, which finds its applications in different sectors such as consumer electronics, aerospace and defense, telecommunication, medical, and automotive. Heterogeneous computing is needed to handle the diverse workload by mobile devices such as computational photography, augmented reality, and natural User Interface (UI) and gestures.

The advantage of Heterogeneous Mobile Processing (HMP) is that the right tasks are being assigned to the right cores, which will improve the overall performance of the device. The processor diversity provided by the heterogeneous architecture can result in power saving and enhanced performance.

The expansion of the HMP and computing market has inspired research and development in heterogeneous system architecture design technology by Integrated Device Manufacturers (IDM) as well as Electronic Manufacturing Service (EMS) providers and Semiconductor Assembly Services (SAS). With this evolution of Heterogeneous Mobile Processing (HMP) technology during the last few decades, the trend for this technology in the next decade or two will be clearer if we look at the future electronics market sectors such as mobile products, automobiles, medical sector, and aerospace.

Some of the key players in this market include ARM Holdings Plc. (U.K.), Auviz Systems (U.S.), Advanced Micro Devices Inc. (U.S.), Imagination Technologies Group Plc. (U.K.), MediaTek Inc. (Taiwan), Qualcomm Inc. (U.S.), Texas Instruments Inc. (U.S.), and Samsung Electronics Co. Ltd. (South Korea).

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