

Research in Mobile SOC Market is driven by reduction in substrate size

A mobile SOC is an integrated circuit that connects all the electronic parts of a mobile and provides functionality.

HYDERABAD, TELANGANA, INDIA, September 5, 2018 /EINPresswire.com/ -- Whenever people plan to buy a phone, they consider different factors like the battery life, the random access memory and the design of the phone. However, all of these features are indirectly affected by the system on chip (SOC). A [mobile SOC](#) is an integrated circuit that connects all the electronic parts of a mobile and provides functionality. The mobile SOC market consists of a few key players namely Qualcomm, Apple, MediaTek Inc, Samsung, Allwinner Technology and so on.

As our mobile phones are getting smaller and faster, one of the key challenges for SOC producers is to provide the lowest PCB (Printed Circuit Board) area. The idea was to make it more convenient to carry a phone in pocket. Mobile SOC manufacturers began with 40nm transistors. And with the ever developing technology, these transistors soon get smaller. Recently, the manufacturers have begun using 10 nm transistors and 7nm transistors are also expected to enter the market soon.

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With the decreasing size of the chip, there also comes the issue of reliability. Smaller SOCs and increasing number of applications would result in more failures over time due to electrostatic overstress. For example, a person may like to run an augmented reality experience on a phone, just after using it for listening to music for a few minutes, and it suddenly switches off due to heat. It will be a key issue manufacturers will have to ponder over if they are to sustain their share in the market.

Lately, most mobile SOC manufacturers, old and new, have been aided by ARM's "Built on ARM Cortex Technology" toolkit that allows new companies to add parts of their own technologies to the basic design and sell it as their own. This toolkit has allowed new players to enter and allow the market to mature. Companies such as Google has delayed its entrance due to high costs in designing and making an SOC, but is expected to bring its own offerings into the market soon.

However, applications of emerging technologies, such as Internet of Things and Augmented Reality/ Virtual Reality will consume more power and will require faster SOCs to function optimally*. The manufacturers will have to then begin designing chips that are optimized for one technology or a set of technologies, depending on sustainability.

In 2017, Apple, joined the list of SOC manufacturers, has generated a revenue of \$229,234 million (iPhone – 141,239, Other Products – 12,863). Similarly, Qualcomm has generated a revenue of 16,749 million USD, as compared to 15,409 million USD in 2016. Qualcomm is also gearing up to launch Snapdragon 855, the first 7nm mobile SOC in 2018. Meanwhile, Samsung plans to assist ARM in the manufacturing of their own 7nm offering soon.

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Overall, ARM's program and the various applications of emerging technologies, such as IoT and AR/VR along with the entry of new players should increase the production and the sales of mobile SOCs in the market. One can expect to have more room in their pockets for keys, wallet, and flashlight as their phones get smaller in size.

Mobile SOC market report is segmented as indicated below:

1. Mobile SOC – By Utilization

1.1. Introduction

1.2. Dual Core

1.3. Quad Core

1.4. Octa Core

1.5. Others

2. Mobile SOC – By Technology

2.1. 14nm

2.2. 12nm

2.3. 10nm

2.4. Others

3. Mobile SOC – By Component

3.1. Microprocessor

3.2. Firmware

3.3. Digital & Analog Circuit

3.4. Memory

3.5. Display

3.6. Timers

3.7. ASIC

3.8. Others

4. Mobile SOC – By Application

4.1. Introduction

4.2. Mobile Phones

4.3. Portable Navigation Devices

4.4. Others

5. Mobile SOC Market – By Market Entropy

6. Mobile SOC Market – By Geography

Companies Cited/Interviewed/Referenced

Qualcomm

Apple

Samsung

Nvidia

Intel

MediaTek

Infineon

Spreadtrum Communications Inc.

Hisilicon (Owned by Huawei)

Xiaomi

Allwinner Technology

Company 15+

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A. Finfet Technology Market

<https://industryarc.com/Report/15228/finfet-technology-market.html>

B. Silver Nanowires Market

<https://industryarc.com/Report/16368/silver-nanowire-market.html>

What can you expect from the report?

The Mobile SoC Market Report is Prepared with the Main Agenda to Cover the following 20 points:

1. Market Size by Product Categories
2. Market trends
3. Manufacturer Landscape
4. Distributor Landscape
5. Pricing Analysis
6. Top 10 End user Analysis
7. Product Benchmarking
8. Product Developments
9. Mergers & Acquisition Analysis
10. Patent Analysis
11. Demand Analysis (By Revenue & Volume)
12. Country level Analysis (15+)
13. Competitor Analysis
14. Market Shares Analysis
15. Value Chain Analysis
16. Supply Chain Analysis
17. Strategic Analysis
18. Current & Future Market Landscape Analysis
19. Opportunity Analysis
20. Revenue and Volume Analysis

Frequently Asked Questions:

Q. Does IndustryARC publish country, or application based reports in Mobile SoC Market?

Response: Yes, we do have separate reports and database as mentioned below:

1. North America Mobile SoC Market (2018-2023)
2. South America Mobile SoC Market (2018-2023)
3. Europe Mobile SoC Market (2018-2023)
4. Asia Pacific Mobile SoC Market (2018-2023)
5. Middle East and Africa Mobile SoC Market (2018-2023)
6. 10nm Mobile SoC Market (2018-2023)
7. Display Market of Mobile SoC Market (2018-2023)
8. Portable Navigation Devices Market of Mobile SoC Market (2018-2023)

Q. Does IndustryARC provide customized reports and charge additionally for limited customization?

Response: Yes, we can customize the report by extracting data from our database of reports and annual subscription databases. We can provide the following free customization

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3. Find out market shares for other smaller companies or companies which are of interest to you.
4. Company profiles can be requested based on your interest.
5. Patent analysis, pricing, product analysis, product benchmarking, value and supply chain

analysis can be requested for a country or end use segment.

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