# System On Chip (SoC) Market Research Report - Global Forecast 2023

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## Description:

Global System-On-Chip Market Research Report, Type (Digital Signal, Analog Signal, Mixed Signal), Application (Consumer Electronics, Healthcare, Telecommunication, Automotive and Others) — Forecast till 2023

### Market synopsis

Globally the market for system-on-chip is expected to grow from USD 131.83 billion in 2017 to USD 207.21 billion by 2023, at a compound annual growth rate (CAGR) of 8.3% during the forecast period.

Major factors such as the increasing demand for smart, compact and power-efficient electronic device and rise in adoption of IoT based technologies is spurring the growth of system-on-chip market globally. However, high initial cost of design & development and maintenance is expected to hinder the growth of this market. The requirement for compact and scalable ICs in the global electronic industry is expected to bring numerous opportunities, thereby supporting the growth of the system-on-chip market during the forecast period. The market for system-on-chip has seen considerable growth due to rising applications in end-user industries, with smartphones application having the largest market share. Industries such as telecommunication, consumer electronics, and healthcare are also leading verticals in adopting system-on-chip technology so as to improve the performance of networking devices and biomedical devices.

System-on-chip is an integrated circuit on which several electronic components are combined together such as transistors, control units, memory units, peripherals, and others, depending on the type of its application. It contains both hardware and software that results in better response time and efficient power consumption. SoC is an efficient way to enhance the performance of the device and helps to meet the ever-increasing computational demand. Also, due to the advancement in manufacturing process and availability of cost-effective silicon chip is expected to create better opportunities for many players in the semiconductor market.

### System-On-Chip Market
Segmentation

By type, the market is segmented into analog signal, digital signal and mixed signal.

By application, the market is segmented into consumer electronics, healthcare, telecommunication, automotive and others.

By region, the market is segmented into North America, Europe, Asia-Pacific and the rest of the world.

Regional analysis

The global market for system-on-chip is estimated to grow at a significant rate during the forecast period from 2018 to 2023. The geographical analysis of system-on-chip market is studied for North America, Europe, Asia-Pacific, and the rest of the world.

The Asia-Pacific region is expected to dominate SoC market owing to the rise in demand for advanced consumer electronics from countries such as China, India, South Korea, Taiwan and Japan. Also, North America is expected to have a strong growth in the system-on-chip market due to the increasing adoption of IoT-based technologies integrated with consumer appliances which is assumed to gain popularity over the forecast duration.

Competitive Analysis

Key players in the market are involved in various acquisition and partnerships deals to sustain and grow in the market. Also, collaboration and joint ventures form a crucial part in the company’s inorganic strategy. Many established companies are aiming to acquire small companies so have to have strong hold in the high-potential regional markets. Companies also adopt product development and launch as their major organic strategy and are increasingly focusing on the launch of innovative products to meet the demands from major end-use industries such as consumer electronics and telecommunications. For instance, in 2017, Apple launched a new system-on-chip for the latest iPhone 8 named as A11 Bionic.

New entrants in the market may find it difficult to establish themselves in the market without any unique proposition due to competition from established players such as Samsung Electronics, Toshiba Corporation, Intel Corporation, Taiwan Semiconductor Manufacturing Company and many others, which already have strong hold and technology expertise in the market.

Key players

The major players in the system-on-chip market are Intel Corporation, Qualcomm Incorporated, Samsung Electronics Ltd, NXP Semiconductors N.V., Toshiba Corporation, Broadcom Limited, STMicroelectronics N.V., Apple Inc, MediaTek Inc, and Taiwan Semiconductor Manufacturing Company Limited.

Other players in the system-on-chip market are Infineon Technologies, Maxim Integrated Products Inc, Microchip Technology Inc, Texas Instruments, ON Semiconductor and many others.
Intended Audience

- SoC Manufacturers
- SoC Distributors
- Research/Consultancy firms
- Vendors from various industry verticals such as Automotive, and Electronics & Semiconductors among others
- OEMs
- Semiconductor Manufacturers

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