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Semiconductor (Silicon) IP Market by Form Factor (Integrated Circuit IP, SOC IP), Design Architecture (Hard IP, Soft IP), Processor Type (Microprocessor, DSP), Application, Geography and Verification IP - Forecast & Analysis to 2022

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Abstracts

“The semiconductor IP market expected to witness significant growth in the coming years owing to the emerging IoT ecosystem”

The semiconductor IP market is expected to reach USD 7.01 billion by 2022 from USD 3.09 billion in 2015, at a CAGR of 10.55% between 2016 and 2022. The advancements in consumer electronics, growing demand for modern SoC chips, mitigation of the continuously rising chip design cost & expenditure, and demand for connected devices are expected to drive the semiconductor IP market during the forecast period.

“Internet of Things (IoT) likely to have new growth opportunities for semiconductor IPs”

The emerging IoT ecosystem is a major area of interest for semiconductor IP players. Over the past two years, they partnered with hardware, networking, and software companies, and a number of industry associations and academic consortiums, to develop formal and informal standards for IoT applications. For instance, AT&T, Cisco, GE, IBM, and Intel cofounded the Industrial Internet Consortium, whose primary goal is to establish interoperability standards across industrial environments so that data about fleets, machines, and facilities can be accessed and shared more reliably.

It is expected that the number of devices connected through IoT would increase from 15 billion in 2015 to around 50 billion devices by 2020. Most of these devices would not be conventional PCs or smartphones but a growing web of interconnected devices such as

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home appliances, security systems, smart thermostats, smart meters, portable medical devices, health and fitness trackers, smart watches, and many other mobile products. They would be compact in size and low in cost, and some of these devices would operate and communicate autonomously.

In the process of determining and verifying the market size for several segments and sub-segments gathered through the secondary research, extensive primary interviews were conducted with key people. The break-up of profiles of primary participants is given below:

By Company Type: Tier 1% – 50%, Tier 2% – 30%, and Tier 3% – 20%

By Designation: C-level – 38%, Director Level – 28%, and Others – 34%

By Region: North America – 48%, Europe – 19%, APAC – 28%, and RoW – 5%

“Energy harvesting likely to be the most promising application of piezoelectric technology”

The growing demand for energy harvesting devices and increase in funding from investors and governments are expected to propel the growth of the piezoelectric devices market in the next five years.

The key market players profiled in the report are:

ARM Holdings Plc. (U.K.)

Synopsys, Inc. (U.S.)

Cadence Design Systems, Inc. (U.S.)

Imagination Technologies (U.K.)

Lattice Semiconductor (U.S.)

Ceva, Inc. (U.S.)

Rambus, Inc. (U.S.)

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Mentor Graphics (U.S.)

eMemory Technology, Inc. (Taiwan)

Sonics, Inc. (U.S.)

Vivante Corporation, (U.S.)

Atmel Corporation (U.S.)

Renesas Electronics Corp. (Japan).

The report would help the companies in this market in the following ways:

The report segments the semiocnductor IP market comprehensively and provides the closest approximations of the size of the overall market and sub-segments across different verticals and regions.

The report helps stakeholders understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.

This report would help stakeholders understand the competitors better and gain more insights to enhance their position in the business.

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*Details on Overview, Products and Services, Financials, Strategy & Development might not be Captured in case of Unlisted Companies.

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About

The global semiconductor IP market has been expanding and shaping up into a strong, well-connected value chain over the years and robust development is expected to take place over the next few years as well. The semiconductor intellectual property core also known as IP Core or IP Block is a unit of architectural layout of a specific or whole part of a semiconductor chip. IP cores, after development by third parties, in general are licensed to semiconductor chip manufacturers. There is a tremendous increase in the number of vendors due to rising adoption of semiconductor IP solutions by chip manufacturers to reduce their chip design time and expenditure. The ever increasing adoption of third party IP (Intellectual Property) cores in diverse end user applications sectors such as computers and peripherals, network technologies, mobile and tablets, security and others have paved the success path for the global semiconductor IP market. The most rapidly growing segments of the semiconductor IP value chain are the third party IP Developers and the IP Licensors segments. New entrants among semiconductor IP manufacturers can easily adopt the third-party IP Vendors model.

The global semiconductor IP market's value chain has grown to a vast network of players involved in various segments. There have been tremendous changes in the landscape of the semiconductor IP industry value chain with several developments in all the segments such as IP core developers, licensing vendors, open source vendors, aggregators and customers such as fabless, fab, IDM, assembly segments.

The overall semiconductor IP market was worth $ XX million in the year 2013, and is poised to grow at a CAGR of XX % from 2014 to 2020, to reach $ XX million in 2020. The global market comprises of five major market segments, namely form factor, design architecture, processor type, application sector, and geography. In this research study, the verification IP market is also covered as a separate market segment.

The major factors responsible for the upsurge of the global semiconductor IP market include— Increasing commercialization of SoC technology, Need to mitigate the continuously rising chip design cost and expenditure, Rapidly changing technology nodes, Shrinking time-to-market windows and fierce competition in industries such as consumer electronics.

The semiconductor IP Market is growing in both the Integrated Circuit(IC) IP and System-on-Chip IP sub-sectors, but is expected to grow tremendously faster in the SoC

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IP segment at an estimated CAGR of XX % from 2014 to 2020. The application specific and programmable (FPGA and PLD) IP segments in both ICs and SoCs are the fastest growing segments, next to the primary revenue contributor – the SoC Processor IP segment, which is estimated to grow at a phenomenal CAGR of XX % from 2014 to 2020. All the IP segments such as application specific, programmable, digital, analog and mixed signal and memory IP markets are expected to have much faster growth rates in the SoC segment, than their respective markets in the IC segment.

The embedded technology is increasingly penetrating into the semiconductor industry causing growing share of embedded IP over general IP segment in all fields. The rising focus on multi-core technology has paved way for huge revenues in the embedded IP market segments. The global DSP (Digital Signal Processing) IP market is one of the fastest growing value chain segments and is expected to grow from $ XX million in 2013 to $ XX million in 2020 at a CAGR of XX % from 2014 to 2020, which is faster than the overall semiconductor IP market CAGR of XX % from 2014 to 2020.

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