Semiconductor IP Market by Form Factor (ICs IP, SOCs IP), Design Architecture (IP cores (Hard IP, Soft IP), Standard IP, Custom IP, Processor Design), Processor Type (Microprocessor, DSP), Verification IP - Global forecast to 2022

Description: “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 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.)
- 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 semiconductor 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.

Contents:
1 Introduction
   1.1 Objectives Of The Study
   1.2 Market Definition
   1.3 Study Scope
   1.3.1 Markets Covered
   1.3.2 Years Considered For The Study
   1.4 Currency
   1.5 Limitations
   1.6 Stakeholders

2 Research Methodology
   2.1 Research Data
   2.1.1 Secondary Data
   2.1.1.1 Key Data From Secondary Sources
   2.1.2 Primary Data
   2.1.2.1 Key Data From Primary Sources
   2.1.2.2 Key Industry Insights
   2.1.2.3 Breakdown Of Primaries
   2.1.3 Market Size Estimation
      2.1.3.1 Top-Down Approach
      2.1.3.2 Bottom-Up Approach
   2.2 Market Breakdown & Data Triangulation
   2.3 Research Assumptions
      2.3.1 Assumptions

3 Executive Summary

4 Premium Insights
   4.1 Attractive Opportunities In The Semiconductor IP Market
   4.2 High Growth Opportunities In Digital SOC IP Market During The Forecast Period
   4.3 The Market For Mobile & Tablet Application Held The Largest Market
   4.4 Semiconductor IP Market, By DSP Processor Type And Region
   4.5 The Market In APAC Expected To Grow At The Highest Rate In The Semiconductor IP Market

5 Market Overview
   5.1 Introduction
   5.2 History And Evolution
   5.3 Market Segmentation
      5.3.1 By Form Factor
      5.3.2 By Design Architecture
      5.3.3 By Processor Type
      5.3.4 By Application
   5.4 Market Dynamics
      5.4.1 Drivers
         5.4.1.1 Emerging Consumer Devices Market
         5.4.1.2 Growing Demand For Modern SOC Designs Leading To Semiconductor IP Market Growth
         5.4.1.3 Mitigation Of The Continuously Rising Chip Design Cost And Expenditure
         5.4.1.4 Rising Demand For Connected Devices
      5.4.2 Restraints
      5.4.2.1 Technology Shift Expected To Restrain The Growth Of The Semiconductor IP Market
      5.4.3 Opportunities
         5.4.3.1 Embedded DSP IP And Programmable DSP IP Segments To Have A Tremendous Growth Potential In The Coming Future
      5.4.3.2 Avionics, Aerospace And Defense To Provide Huge Market Opportunities For The Semiconductor IP Market
      5.4.4 Challenges
         5.4.4.1 Intellectual Property Thefts, Counterfeits, And Conflicts To Affect The Global Semiconductor IP Market

6 Industry Trends
   6.1 Introduction
6.2 Value Chain Analysis
6.2.1 Value Chain Segments
6.2.1.1 IP Core Developers
6.2.1.2 IP Licensing Vendors
6.2.1.3 Open Source-IP Vendors
6.2.1.4 IP Aggregators
6.2.1.5 IP Customers
6.3 Industry Outlook
6.4 Porter’s Five Forces Analysis
6.4.1 Threat Of New Entrants
6.4.2 Threat Of Substitutes
6.4.3 Bargaining Power Of Suppliers
6.4.4 Bargaining Power Of Buyers
6.4.5 Degree Of Competition

7 Semiconductor IP Market, By Form Factor
7.1 Introduction
7.2 Integrated Circuit IP
7.2.1 General Purpose IC IP
7.2.2 Application-Specific IC IP
7.2.3 Programmable IC IP
7.2.4 Digital IC IP
7.2.5 Analog & Mixed Signal IC IP
7.2.6 Memory IC IP
7.2.7 Data Converter IC IP
7.3 System-On-Chip(Soc) IP
7.3.1 SOC Processor IP
7.3.1.1 Meta Mtp Embedded Processors
7.3.2 SOC Asic IP
7.3.3 SOC Programmable IP
7.3.4 SOC Digital IP
7.3.5 SOC Analog & Mixed Signal IP
7.3.6 SOC Memory IP
7.3.6.1 Sdram Controllers
7.3.6.2 DDR Sdram
7.3.6.3 HMC Controllers
7.3.6.4 EMMC
7.3.6.5 Others
7.3.7 Interface SOC IP
7.3.7.1 HDMI
7.3.7.2 SATA
7.3.7.3 USB
7.3.7.4 V-By-One HS
7.3.7.5 Others
7.3.8 SOC Data Converter IP
7.3.8.1 Analog To Digital Converter (ADC)
7.3.8.2 Digital To Analog Converter (DAC)
7.3.8.2.1 Risks In Data Converter IP Deployment
7.3.9 Other SOC IP
7.3.9.1 Input/Output Controller
7.3.9.2 Receivers/Transmitters
7.3.9.3 Watchdog Timer

8 Semiconductor IP Market, By Design Architecture
8.1 Introduction
8.2 Semiconductor IP Market, By IP Nature
8.2.1 IP Cores
8.2.1.1 Hard IP Core
8.2.1.2 Soft IP Core
8.3 Semiconductor IP Market, By Customization
8.3.1 Standard IP Core
8.3.2 Customizable IP Core
8.4 Semiconductor IP Market, By Processor Design
8.4.1 General Processor IP
8.4.2 Embedded Processor IP
8.4.2.1 Single-Core Processor IP
8.4.2.2 Multi-Core Processor IP

9 Semiconductor IP Market, By Processor Type
9.1 Introduction
9.2 Microprocessor Core IP
9.2.1 Application Processor IP
9.2.2 Graphics Processor IP
9.3 Digital Signal Processor IP
9.3.1 DSP Processor Core IP
9.3.1.1 Standard DSP Core IP
9.3.1.2 Customizable DSP Core IP
9.3.1.3 DSP Application-Specific Core IP
9.3.1.4 DSP Programmable Core IP

10 Semiconductor IP Market, By Application
10.1 Introduction
10.2 Computers & Peripherals
10.3 Networking Technologies
10.4 Telecom Infrastructure
10.5 Security
10.5.1 Secure Microcontrollers
10.5.2 Smart Cards
10.6 Mobiles & Tablets
10.7 Home Entertainment
10.8 Automotive
10.9 Other Applications
10.9.1 Industrial
10.9.2 Military, Defense & Aerospace
10.9.3 Medical
10.9.4 IoT
10.9.5 RF Devices

11 Verification IP Market, By Protocol
11.1 Introduction
11.1.1 Major Companies In The Verification IP Market
11.1.2 Major Benefits Of Verification IP
11.2 Mipi Protocol
11.2.1 Major Providers In The Mipi Protocol Market
11.3 Bus Protocol
11.4 Interface Protocol
11.5 Memory Models And Protocol Checkers

12 Regional Analysis
12.1 Introduction
12.2 North America
12.2.1 The U.S.
12.2.2 Canada
12.2.3 Mexico
12.3 Europe
12.3.1 Germany
12.3.2 The U.K.
12.3.3 France
12.3.4 Italy
12.3.5 Netherlands
12.4 APAC (Excluding Japan)
12.4.1 China
12.4.2 South Korea
12.4.3 India
12.4.4 Taiwan
12.4.5 Rest Of APAC
12.4.5.1 Singapore And Other Countries
12.5 Japan
12.6 RoW

13 Competitive Landscape
13.1 Overview
13.2 Key Players In The Semiconductor IP Market, 2015
13.3 Competitive Situation And Trends
13.3.1 New Product Launches
13.3.2 Agreements, Collaborations, Contracts, & Partnerships
13.3.3 Acquisitions

14 Company Profiles
(Overview, Products And Services, Financials, Strategy & Development)*
14.1 Arm Holdings Plc
14.2 Synopsys, Inc.
14.3 Cadence Design Systems, Inc.
14.4 Imagination Technologies
14.5 Lattice Semiconductor
14.6 Ceva, Inc.
14.7 Rambus, Inc.
14.8 Mentor Graphics
14.9 Ememory Technology, Inc.
14.10 Sonics, Inc.
14.11 Vivante Corporation
14.12 Atmel Corporation
14.13 Renesas Electronics Corp.
*Details On Overview, Products And Services, Financials, Strategy & Development Might Not Be Captured In Case Of Unlisted Companies.

15 Appendix
15.1 Insights Of Industry Experts
15.2 Discussion Guide

List Of Tables
Table 1 Semiconductor IP Market: By Form Factor
Table 2 Semiconductor IP Market: By Design Architecture
Table 3 Semiconductor IP Market: By Processor Type
Table 4 Semiconductor IP Market: By Application
Table 5 Global Semiconductor IP Market Drivers
Table 6 Global Semiconductor IP Market Restraints
Table 7 Global Semiconductor IP Market Opportunities
Table 8 Global Semiconductor IP Market Challenges
Table 9 Semiconductor IP Market, By Form Factor, 2013-2022 (USD Million)
Table 10 Semiconductor IP Market, By IP Classification, 2013 - 2022 (USD Million)
Table 11 Processor IP Market, By Application, 2013 - 2022 (USD Million)
Table 12 Processor IP Market, By Geography, 2013 - 2022 (USD Million)
Table 13 Asic IP Market, By Application, 2013 - 2022 (USD Million)
Table 14 Asic IP Market, By Geography, 2013 - 2022 (USD Million)
Table 15 Programmable IP Market, By Application, 2013 - 2022 (USD Million)
Table 16 Programmable IP Market, By Geography, 2013 - 2022 (USD Million)
Table 17 Digital IP Market, By Application, 2013 - 2022 (USD Million)
Table 18 Digital IP Market, By Geography, 2013 - 2022 (USD Million)
Table 19 Analog And Mixed Signal IP Market, By Application, 2013 - 2022 (USD Million)
Table 20 Analog And Mixed Signal IP Market, By Geography, 2013 - 2020 (USD Million)
Table 21 Memory IP Market, By Application, 2013 - 2022 (USD Million)
Table 22 Memory IP Market, By Geography, 2013 - 2020 (USD Million)
Table 23 Interface IP Market, By Application, 2013 - 2022 (USD Million)
Table 24 Interface IP Market, By Geography, 2013 - 2020 (USD Million)
Table 25 Data Converter IP Market, By Application, 2013 - 2022 (USD Million)
Table 26 Data Converter IP Market, By Geography, 2013 - 2022 (USD Million)
Table 27 Other IP Market, By Application, 2013 - 2020 (USD Million)
Figure 3 Market Size Estimation Methodology: Bottom-Up Approach
Figure 4 Data Triangulation
Figure 5 Semiconductor IP Market Snapshot, By Application (2016 Vs. 2020): Mobile And Tablets Sector Is The Leading Application In The Market
Figure 6 Semiconductor IP Market Snapshot, By Form Factor (2016 Vs. 2022): System-On-Chip Technology To Witness Significant Growth
Figure 7 Semiconductor IP, By Design Architecture (2016 Vs. 2022) - Soft IP Market To Witness Significant Growth
Figure 8 Semiconductor IP Market, By Processor Type (2016 Vs. 2022) - Microprocessor IP To Hold The Largest Market
Figure 9 Global Semiconductor IP Market, By Region, 2015
Figure 10 Expanding IoT Ecosystem Expected To Drive The Semiconductor IP Market, 2016 - 2022 (USD Million)
Figure 11 Geographic Snapshot: Semiconductor SOC IP Market
Figure 12 Semiconductor IP Market, By Application, 2013 - 2022 (USD Million)
Figure 13 North America Held The Largest Market In The DSP Processor IP Market In 2015
Figure 14 Region-Wise CAGR For The Semiconductor IP Market (2016 - 2022)
Figure 15 Advancements In Consumer Electronics And Increasing Demand For Connected Devices Expected To Drive The Semiconductor IP Market
Figure 16 Semiconductor IP Industry Classification
Figure 17 Semiconductor IP Industry Value Chain
Figure 18 Emerging Multicore Processors And Evolving Consumer Sector Expected To Drive The Semiconductor IP Market
Figure 19 Porter's Five Forces
Figure 20 Porter's Five Forces Analysis Of The Semiconductor IP Market
Figure 21 High Threat Of New Entrants
Figure 22 Low Threat Of Substitutes
Figure 23 Low Bargaining Power Of Suppliers
Figure 24 Medium Bargaining Power Of Buyers
Figure 25 High Degree Of Competition
Figure 26 Semiconductor IP Market, By Form Factor
Figure 27 Types Of Memory IC
Figure 28 Semiconductor IP Market, By Design Architecture
Figure 29 Typical Third Generation Multi-Core Processor Block Diagram With IP Cores
Figure 30 Semiconductor IP Market, By Processor Type
Figure 31 Semiconductor IP Market Classification, By Application
Figure 32 Semiconductor IP Market Share, By Application 2015 (USD Million)
Figure 33 Semiconductor IP Market Share, By Application 2022 (USD Million)
Figure 34 Computers And Peripherals: Semiconductor IP Market, 2013 - 2022 (USD Million)
Figure 35 Networking Technologies: Semiconductor IP Market, 2013 - 2022 (USD Million)
Figure 36 Telecom Infrastructure: Semiconductor IP Market, 2013 - 2022 (USD Million)
Figure 37 Security: Semiconductor IP Market, 2013 - 2022 (USD Million)
Figure 38 Mobiles & Tablets: Semiconductor IP Market Size, 2013 - 2022 (USD Million)
Figure 39 Home Entertainment: Semiconductor IP Market, 2013 - 2022 (USD Million)
Figure 40 Semiconductor IP Market For Automotive, 2013 - 2022 (USD Million)
Figure 41 Semiconductor IP Market For Other Applications, 2013 - 2022 (USD Million)
Figure 42 Verification IP Market Size, 2013 - 2022 (USD Million)
Figure 43 Benefits Of Verification IP
Figure 44 Semiconductor IP Market, By Geography
Figure 45 Geographical Distribution Of Semiconductor IP Vendors
Figure 46 North America: Semiconductor IP Market Snapshot
Figure 47 Europe: Semiconductor IP Market Snapshot
Figure 48 Europe: Geographical Distribution Of Semiconductor IP Vendors
Figure 49 APAC: Semiconductor IP Market Snapshot
Figure 50 Companies Adopted New Product Launches And Partnerships As The Key Growth Strategy Over The Last Six Years (2011-2016)
Figure 51 Battle For Market Share: New Product Launches Have Been The Key Strategy
Figure 52 Arm Holdings Plc: Company Snapshot
Figure 53 Arm Holdings Plc: Swot Analysis
Figure 54 Synopsys, Inc.: Company Snapshot
Figure 55 Synopsys, Inc.: Swot Analysis
Figure 56 Cadence Design Systems: Company Snapshot
Figure 57 Cadence Design Systems, Inc.: Swot Analysis
Figure 58 Imagination Technologies: Company Snapshot
Figure 59 Imagination Technologies: Swot Analysis
Figure 60 Lattice Semiconductor: Company Snapshot
Figure 61 Lattice Semiconductor: Swot Analysis
Figure 62 Ceva, Inc.: Company Snapshot
Figure 63 Rambus, Inc.: Company Snapshot
Figure 64 Mentor Graphics: Company Snapshot
Figure 65 Ememory Technology, Inc.: Company Snapshot
Figure 66 Atmel Corporation: Company Snapshot
Figure 67 Renesas Electronics Corp.: Company Snapshot

Ordering:

Order Online - http://www.researchandmarkets.com/reports/3634290/

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Semiconductor IP Market by Form Factor (ICs IP, SOCs IP), Design Architecture (IP cores (Hard IP, Soft IP), Standard IP, Custom IP, Processor Design), Processor Type (Microprocessor, DSP), Verification IP - Global forecast to 2022
Web Address: http://www.researchandmarkets.com/reports/3634290/
Office Code: SCBRFYDB

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Product Format</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF)</td>
<td></td>
<td>USD 5650</td>
</tr>
<tr>
<td>Single User</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF)</td>
<td></td>
<td>USD 6650</td>
</tr>
<tr>
<td>1 - 5 Users</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF)</td>
<td></td>
<td>USD 8150</td>
</tr>
<tr>
<td>Site License</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF)</td>
<td></td>
<td>USD 10000</td>
</tr>
<tr>
<td>Enterprisewide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: ____________________________      Last Name: ____________________________
Mr [ ]    Mrs [ ]     Dr [ ]     Miss [ ]     Ms [ ]     Prof [ ]
First Name: ____________________________
Email Address: * ____________________________
Job Title: ____________________________
Organisation: ____________________________
Address: ____________________________
City: ____________________________
Postal / Zip Code: ____________________________
Country: ____________________________
Phone Number: ____________________________
Fax Number: ____________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
- Account number: 833 130 83
- Sort code: 98-53-30
- Swift code: ULSBIE2D
- IBAN number: IE78ULSB98533083313083
- Bank Address: Ulster Bank,
  27-35 Main Street,
  Blackrock,
  Co. Dublin,
  Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World