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Global Semiconductor IP Market Size Study, by Design IP (Processor IP, Interface IP, Memory IP), by IP Source (Licensing, Royalty), by IP Core (Soft IP, Hard IP), by Application (Consumer Electronics, Telecom, Automotive, Others), and Regional Forecasts 2022-2032

https://marketpublishers.com/r/G00DFE2CB3A7EN.html
Date: July 2024
Pages: 200
Price: US$ 3,218.00 (Single User License)
ID: G00DFE2CB3A7EN

Abstracts

Global Semiconductor Intellectual Property (IP) Market is valued approximately at USD 7.15 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 8.3% over the forecast period 2024-2032. Semiconductor Intellectual Property (IP) comprises pre-designed and pre-verified functional elements necessary for crafting integrated circuits (ICs) and System-on-Chip (SoC) devices. These elements include processors, memory modules, analog circuits, and diverse interface modules developed and licensed by specialized companies to semiconductor manufacturers and system designers. Semiconductor Intellectual Property (IP) is pivotal in expediting the chip design process, curbing development expenses, and enhancing overall operational efficiency. By integrating proven and standardized IP cores into their designs, manufacturers and designers can concentrate on application-specific aspects rather than re-creating foundational components. This strategy is particularly crucial in an era characterized by intricate and advanced semiconductor technologies.

The Semiconductor Intellectual Property (IP) market caters to various applications, from telecommunications and automotive to consumer electronics and industrial devices. The dynamic nature of the market continuously evolves to meet the requirements of emerging technologies. The adoption of Semiconductor Intellectual Property (IP) plays a pivotal role in stimulating innovation, facilitating expedited product launches, and fostering collaboration within the semiconductor design ecosystem. Semiconductor

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Intellectual Property (IP) presents several advantages in chip design, including expediting development by supplying pre-validated components, decreasing time-to-market, and achieving cost-effectiveness. This allows designers to license established IP cores instead of starting from scratch, thereby enhancing design efficiency and overall chip reliability and performance.

The growing demand for contemporary system-on-chip (SoC) designs propels the Semiconductor Intellectual Property (IP) market. The increasing prevalence of SoC designs results from the heightened complexity of electronic devices such as smartphones, IoT devices, and automotive systems, which require heightened functionality, performance, and integration. Designers are adopting SoC architectures and utilizing Semiconductor Intellectual Property (IP) for the efficient incorporation of specialized components. This trend is fueled by the imperative for faster time-to-market and cost-effectiveness, as Semiconductor Intellectual Property (IP) enables the integration of pre-validated and standardized IP cores, reducing development cycles.

However, infringement of patented technologies hinders the growth of the market. Unauthorized utilization or replication of patented semiconductor intellectual property diminishes incentives for innovation, dissuading companies from dedicating resources to research and development. This obstruction curtails fair competition, triggers legal conflicts, and introduces uncertainties surrounding intellectual property rights, potentially discouraging companies from participating in the Semiconductor Intellectual Property (IP) ecosystem. Effectively addressing and preventing patent infringements is crucial for fostering innovation, competition, and sustained growth within the Semiconductor Intellectual Property (IP) market. Furthermore, demand for Semiconductor Intellectual Property (IP) is expected to increase rapidly during the forecast period due to the growing demand for integrated circuits. The market's resilience is rooted in its capacity to offer efficient and time-efficient solutions for chip design, facilitating rapid time-to-market and cost-effectiveness. The ongoing development of semiconductor technologies and the adaptability of IP solutions meet a range of industry requirements, fostering innovation.

The key regions considered for the global Semiconductor Intellectual Property (IP) Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Semiconductor Intellectual Property (IP) Market in terms of revenue. The market growth in the region is being attributed to factors including surging demand for advanced computing and communication technologies, increasing complexities in chip design, and the growing emphasis on time-to-market. Whereas, the market in Asia Pacific is anticipated to grow

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at the fastest rate over the forecast period fueled by substantial investments from major organizations and government institutions in developing enhanced Semiconductor Intellectual Property (IP). This investment activity propels the growth of the Semiconductor Intellectual Property (IP) industry in the region.

Major market players included in this report are:

VeriSilicon

Frontgrade Gaisler

ALPHAWAVE SEMI

Cadence Design Systems, Inc.

Faraday Technology Corporation

CEVA Inc.

Rambus Inc.

Synopsys, Inc.

Arm Limited

ARTERIS, INC

The detailed segments and sub-segment of the market are explained below:

By Design IP:

- Processor IP
- Interface IP
- Memory IP

By IP Source:

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- Licensing
- Royalty

By IP Core:

- Soft IP
- Hard IP

By Application:

- Consumer Electronics
- Telecom
- Automotive
- Others

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France

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- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico
- RoLA

Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

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Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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