

Semiconductor Intellectual Property (IP) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

<https://marketpublishers.com/r/S839C020F57BEN.html>

Date: January 2025

Pages: 210

Price: US\$ 4,850.00 (Single User License)

ID: S839C020F57BEN

Abstracts

The Global Semiconductor Intellectual Property (IP) Market reached USD 8.8 billion in 2024 and is set to experience robust growth with a projected CAGR of 15.1% from 2025 to 2034. Semiconductor intellectual property (IP) consists of reusable designs or cores that are integral to the development of semiconductor devices. These IP cores serve as essential building blocks for creating complex chips used across various industries, including mobile devices, automotive electronics, and artificial intelligence (AI) applications. The need for higher performance and customized solutions is driving the demand for semiconductor IP, which plays a pivotal role in the creation of next-generation technologies.

As the market evolves, we're seeing rapid advancements in fields such as 5G, machine learning, edge computing, and IoT, all of which require highly efficient and specialized semiconductor components. The demand for customized, high-performance semiconductor IP cores has surged due to the growing complexity of modern devices and systems. The semiconductor IP market is divided into different segments, with processor IP, interface IP, memory IP, and other categories leading the way. The processor IP segment, in particular, is expected to reach USD 14.1 billion by 2034, propelled by the increasing demand for processors that offer high speeds and lower energy consumption. This demand is largely fueled by mobile devices, AI-driven systems, and automotive electronics, which rely on processors to meet performance standards while maintaining energy efficiency.

Regarding IP core types, the market is split into hard IP and soft IP. The soft IP segment is projected to grow at an impressive CAGR of 15.9% from 2025 to 2034. The key differentiator of soft IP is its flexibility and customizability. These IP cores are

typically provided as synthesizable RTL (Register Transfer Level) code, which semiconductor manufacturers can modify according to specific needs. This flexibility is especially crucial in emerging sectors like AI, IoT, and automotive, where custom chip designs are necessary to achieve specialized functionality.

In 2024, the U.S. semiconductor IP market held an overwhelming 87.7% market share, solidifying its position as the leader in global semiconductor innovation. The U.S. is home to some of the world's most influential technology companies, and its focus on advancing technologies such as AI, 5G, and cloud computing continues to drive substantial demand for high-performance semiconductor IP. The U.S. also boasts a well-established ecosystem of IP providers that support a thriving chip design industry. Furthermore, sectors like automotive and healthcare, which are increasingly adopting cutting-edge technologies, further elevate the demand for semiconductor IP solutions.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factor affecting the value chain
 - 3.1.2 Profit margin analysis
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1 Increasing demand for advanced semiconductor devices
 - 3.6.1.2 Technological advancements in semiconductor design
 - 3.6.1.3 Adoption of System-on-Chip (SoC) architecture
 - 3.6.1.4 Outsourcing of semiconductor design to third-party IP providers
 - 3.6.1.5 Expansion of 5G and IoT infrastructure
 - 3.6.2 Industry pitfalls & challenges
 - 3.6.2.1 Intellectual property security and protection

- 3.6.2.2 Integration and compatibility issues
- 3.7 Growth potential analysis
- 3.8 Porter's analysis
- 3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY IP TYPE, 2021-2034 (USD BILLION)

- 5.1 Key trends
- 5.2 Processor IP
- 5.3 Memory IP
- 5.4 Interface IP
- 5.5 Others

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY IP CORE, 2021-2034 (USD BILLION)

- 6.1 Key trends
- 6.2 Soft IP
- 6.3 Hard IP

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY IP SOURCE, 2021-2034 (USD BILLION)

- 7.1 Key trends
- 7.2 Licensing
- 7.3 Royalty

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USE, 2021-2034 (USD BILLION)

- 8.1 Key trends

- 8.2 Consumer electronics
- 8.3 IT & telecommunication
- 8.4 Automotive
- 8.5 Others

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2034 (USD BILLION)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 UK
 - 9.3.2 Germany
 - 9.3.3 France
 - 9.3.4 Italy
 - 9.3.5 Spain
 - 9.3.6 Russia
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 South Korea
 - 9.4.5 Australia
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
- 9.6 MEA
 - 9.6.1 South Africa
 - 9.6.2 Saudi Arabia
 - 9.6.3 UAE

CHAPTER 10 COMPANY PROFILES

- 10.1 Achronix Semiconductor Corporation
- 10.2 Advanced Micro Devices, Inc.
- 10.3 ALPHA WAVE SEMI
- 10.4 Analog Bits

- 10.5 Arm Limited
- 10.6 ARTERIS, INC
- 10.7 Cadence Design Systems, Inc.
- 10.8 CEVA, Inc.
- 10.9 Dolphin Design
- 10.10 eMemory Technology Inc.
- 10.11 Eureka Technology, Inc.
- 10.12 Faraday Technology Corporation
- 10.13 Frontgrade Gaisler
- 10.14 Imagination Technologies
- 10.15 Lattice Semiconductor
- 10.16 Rambus
- 10.17 Renesas Electronics Corporation
- 10.18 Siemens
- 10.19 SiFive, Inc.
- 10.20 SILVACO GROUP, INC.
- 10.21 Synopsys, Inc.
- 10.22 VeriSilicon

I would like to order

Product name: Semiconductor Intellectual Property (IP) Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

Product link: <https://marketpublishers.com/r/S839C020F57BEN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S839C020F57BEN.html>