+357 96 030922
info@marketpublishers.com

Global Semiconductor Physics IP Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G3E4732E3321EN.html
Date: August 2026
Pages: 129
Price: US$ 4,480.00 (Single User License)
ID: G3E4732E3321EN

Abstracts

The global Semiconductor Physics IP market size is expected to reach $ 2658 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

Semiconductor Physical IP, also referred to as Semiconductor Foundation IP, refers to licensable silicon-proven building blocks that are tightly coupled with specific semiconductor process nodes and foundry platforms. Typical products include standard cell libraries, embedded memory compilers, I/O and GPIO libraries, ESD protection cells, eFuse, OTP, MTP, embedded NVM, PVT sensors, and selected process-dependent hard macros. These IP blocks provide the physical foundation for SoCs, ASICs, MCUs, AI chips, automotive semiconductors, communication chips, and industrial control ICs, helping design teams optimize area, power, performance, reliability, yield, and tape-out risk. Compared with processor IP or interface protocol IP, physical IP is less application-specific but more fundamental, acting as the underlying design infrastructure that enables a chip to be reliably implemented on a target process technology.

The unique value of semiconductor physical IP lies in its ability to productize, standardize, and silicon-validate the most fundamental and process-dependent building blocks in chip design. For chip design companies, standard cell libraries, memory compilers, I/O cells, ESD protection, eNVM, and PVT sensors may not directly define end-product differentiation, but they determine whether a chip can be reliably implemented, taped out successfully, and optimized for power, performance, area, yield, and reliability. As advanced-node development costs rise, SoC integration becomes more complex, and automotive and industrial chips demand higher long-term reliability, it is increasingly difficult for design teams to build all foundation libraries and hard macros internally. Proven physical IP has therefore become a critical tool for reducing

+357 96 030922
info@marketpublishers.com

design risk, shortening development cycles, and improving first-pass silicon success.

The global semiconductor physical IP market is characterized by a structure in which international platform vendors lead, foundry ecosystems play a central role, and regional specialists continue to fill important technology gaps. Companies such as Synopsys, Cadence, and Silvaco hold strong positions through long-standing foundry alignment, silicon-proven assets, and broad IP portfolios. Taiwan-based suppliers such as M31, Faraday, and eMemory benefit from close proximity to foundry and ASIC service ecosystems, with strengths in memory compilers, I/O, and embedded NVM. In Mainland China, companies such as VeriSilicon, Actt are gaining relevance as local chip design, specialty processes, and domestic semiconductor ecosystems expand. Competition is not defined only by the number of IP blocks offered, but also by process coverage, silicon validation history, customer trust, and long-term support capability. Smaller suppliers can still build defensible positions by focusing on low-power memory, eNVM, ESD/I/O, or specialty process libraries.

Looking forward, growth in semiconductor physical IP will be driven by the parallel expansion of advanced nodes and mature specialty processes. AI accelerators, data-center ASICs, automotive SoCs, and high-performance computing platforms will continue to require high-density standard cells, high-performance SRAM, and low-power hard macros at advanced nodes. At the same time, MCUs, mixed-signal ICs, industrial control chips, automotive electronics, and IoT devices will continue to rely heavily on mature and specialty processes, supporting demand for highly reliable, low-leakage, embedded NVM, and automotive-grade physical IP. Compared with processor IP or high-speed interface IP, physical IP is closer to an infrastructure asset within the semiconductor value chain. Its commercial relevance is less dependent on a single end-market cycle and more closely tied to the long-term rise of chip design complexity, process platform diversification, and regional supply-chain localization.

This report studies the global Semiconductor Physics IP demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Physics IP, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Physics IP that contribute to its increasing demand across many markets.

+357 96 030922
info@marketpublishers.com

Highlights and key features of the study

Global Semiconductor Physics IP total market, 2021-2032, (USD Million)
Global Semiconductor Physics IP total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Semiconductor Physics IP total market, key domestic companies, and share, (USD Million)
Global Semiconductor Physics IP revenue by player, revenue and market share 2021-2026, (USD Million)
Global Semiconductor Physics IP total market by Type, CAGR, 2021-2032, (USD Million)
Global Semiconductor Physics IP total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Semiconductor Physics IP market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Synopsys, Cadence, Silvaco Group, Inc., Dolphin Technology, Inc., NSCore, Inc., sureCore Ltd., DXCorr Design Inc., Agile Analog Ltd., Sofics BV, M31 Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Semiconductor Physics IP market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Semiconductor Physics IP Market, By Region:

United States

China

+357 96 030922
info@marketpublishers.com

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Physics IP Market, Segmentation by Type:

SRAM Compiler IP

ROM Compiler IP

Others

Global Semiconductor Physics IP Market, Segmentation by Delivery Form:

Soft IP

Hard IP

Others

Global Semiconductor Physics IP Market, Segmentation by Licensing Model:

Subscription

Buyout

+357 96 030922
info@marketpublishers.com

Global Semiconductor Physics IP Market, Segmentation by Application:

IDM

Wafer Foundry

Fabless

OSAT

Companies Profiled:

Synopsys

Cadence

Silvaco Group, Inc.

Dolphin Technology, Inc.

NSCore, Inc.

sureCore Ltd.

DXCorr Design Inc.

Agile Analog Ltd.

Sofics BV

M31 Technology

Faraday

eMemory Technology

VeriSilicon

+357 96 030922
info@marketpublishers.com

Chengdu Analog Circuit Technology Inc.

Key Questions Answered

1. How big is the global Semiconductor Physics IP market?
2. What is the demand of the global Semiconductor Physics IP market?
3. What is the year over year growth of the global Semiconductor Physics IP market?
4. What is the total value of the global Semiconductor Physics IP market?
5. Who are the Major Players in the global Semiconductor Physics IP market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Semiconductor Physics IP Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/G3E4732E3321EN.html

Price: US$ 4,480.00 (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/G3E4732E3321EN.html