

Global Semiconductor Processor IP Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Processor IP market size was valued at US\$ 6693 million in 2025 and is forecast to a readjusted size of US\$ 10679 million by 2032 with a CAGR of 6.9% during review period.

Semiconductor Processor IP refers to processor cores, processor subsystems, and related software toolchains developed, verified, and licensed by IP vendors for integration into SoCs by fabless chip companies, IDMs, system companies, and semiconductor design teams. It mainly includes CPU IP, MCU core IP, DSP IP, GPU IP, NPU/AI processor IP, image/video/vision processor IP, real-time processors, security processors, automotive functional-safety processors, and RISC-V processor IP. Semiconductor processor IP is typically delivered as RTL, configurable cores, pre-verified subsystems, architecture licenses, SDKs, compilers, debug tools, and reference designs, helping customers reduce chip development time, lower design risk, and optimize performance, power, and area.

The core value of semiconductor processor IP lies in transforming complex, expensive, and high-risk processor development into licensable, reusable, verified, and rapidly integrable chip design building blocks. For SoC design companies, IDMs, system vendors, and emerging AI chip developers, building a CPU, GPU, DSP, or NPU from scratch requires not only long-term architectural expertise, but also compilers, software ecosystems, verification environments, power optimization, functional safety capabilities, and production-proven reliability. Processor IP provides mature cores, configurable architectures, pre-verified subsystems, and supporting toolchains that help customers shorten development cycles, reduce design risk, improve performance-

power-area efficiency, and enable smaller chip companies to participate in complex SoC development. In the context of rapid growth in AI, automotive electronics, IoT, and edge computing, processor IP is no longer simply a design module purchased by chip companies; it has become a foundational capability that determines platform performance, ecosystem compatibility, and speed to market.

From a global industry perspective, the semiconductor processor IP market is characterized by a combination of high concentration and fast-growing emerging ecosystems. Arm maintains strong influence across mobile devices, MCUs, automotive, infrastructure, and edge computing through its broad CPU, GPU, NPU, and system IP ecosystem. Cadence, CEVA, Imagination, and VeriSilicon have built specialized advantages in DSP, GPU, NPU, and multimedia processor IP. Meanwhile, SiFive, Andes, Codaip, MIPS, Akeana, Semidynamics, Ventana, Nuclei, and T-Head are pushing RISC-V beyond embedded control into automotive, AI, data center, and high-performance computing applications. Regionally, North America and Europe remain strong in high-end processor architecture, EDA/IP ecosystems, and AI processor IP. Mainland China and Taiwan are growing quickly in RISC-V, AIoT, multimedia processor IP, and domestic substitution scenarios, while Japan and South Korea are developing opportunities around automotive electronics, graphics display, sensor processing, and system-on-chip applications. Competition is shifting from single-core IP licensing toward a platform model combining processor IP, software toolchains, subsystem reference designs, process-node enablement, and ecosystem support.

Looking ahead, the growth potential of semiconductor processor IP will be driven by the shift of AI computing to edge devices, upgrading automotive electronic architectures, chiplet and heterogeneous integration, expansion of the RISC-V ecosystem, growth of intelligent edge devices, and the global trend toward greater chip design independence. As end devices increasingly require local inference, real-time perception, low-power computing, and secure processing, demand for combinations of specialized CPUs, NPUs, DSPs, GPUs, and security processors will continue to rise. Over the long term, processor IP vendors with high-performance and low-power architectures, configurable instruction extensions, automotive functional-safety capabilities, AI software stacks, mature verification systems, and global ecosystem partnerships will be better positioned to secure critical roles in next-generation SoC designs. Semiconductor processor IP may be invisible to end users, but it is one of the most strategic layers in the semiconductor value chain, enabling chip innovation to evolve from one-off design capability toward scalable platform reuse.

This report is a detailed and comprehensive analysis for global Semiconductor

Processor IP market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semiconductor Processor IP market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Semiconductor Processor IP market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Semiconductor Processor IP market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Semiconductor Processor IP market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Semiconductor Processor IP

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Semiconductor Processor 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 ARM, GlobalFoundries, Cadence, Imagination, CEVA, SiFive, Inc., Andes Technology, Codaip GmbH, Expedera Inc., Quadric.io Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market segmentation

Semiconductor Processor IP market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CPU IP

GPU IP

MCU IP

DSP IP

NPU IP

Others

Market segment by Architecture

Arm-based Processor IP

RISC-V Processor IP

MIPS / ARC Processor IP

Others

Market segment by Delivery Form

Soft IP

Hard IP

Others

Market segment by Application

IDM

Wafer Foundry

Fabless

OSAT

Market segment by players, this report covers

ARM

GlobalFoundries

Cadence

Imagination

CEVA

SiFive, Inc.

Andes Technology

Codasip GmbH

Expedera Inc.

Quadric.io Inc.

Akeana, Inc.

Semidynamics

VeriSilicon

Nuclei System Technology

T-Head (Alibaba)

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Semiconductor Processor IP product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Semiconductor Processor IP, with revenue, gross margin, and global market share of Semiconductor Processor IP from 2021 to 2026.

Chapter 3, the Semiconductor Processor IP competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and

Semiconductor Processor IP market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Semiconductor Processor IP.

Chapter 13, to describe Semiconductor Processor IP research findings and conclusion.

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