

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

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Abstracts

The global Semiconductor Processor IP market size is expected to reach \$ 10679 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

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 studies the global Semiconductor Processor IP demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Processor 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 Processor IP that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Processor IP total market, 2021-2032, (USD Million)

Global Semiconductor Processor IP total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Semiconductor Processor IP total market, key domestic companies, and share, (USD Million)

Global Semiconductor Processor IP revenue by player, revenue and market share 2021-2026, (USD Million)

Global Semiconductor Processor IP total market by Type, CAGR, 2021-2032, (USD Million)

Global Semiconductor Processor IP total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Semiconductor Processor 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 Processor IP Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Processor IP Market, Segmentation by Type:

CPU IP

GPU IP

MCU IP

DSP IP

NPU IP

Others

Global Semiconductor Processor IP Market, Segmentation by Architecture:

Arm-based Processor IP

RISC-V Processor IP

MIPS / ARC Processor IP

Others

Global Semiconductor Processor IP Market, Segmentation by Delivery Form:

Soft IP

Hard IP

Others

Global Semiconductor Processor IP Market, Segmentation by Application:

IDM

Wafer Foundry

Fabless

OSAT

Companies Profiled:

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)

Key Questions Answered

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

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