

Global RISC-V AI SoC Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global RISC-V AI SoC market size was valued at US\$ 558 million in 2024 and is forecast to a readjusted size of USD 1458 million by 2031 with a CAGR of 14.6% during review period.

An RISC-V AI SoC is a system-on-chip that integrates a reduced instruction set computing core with a dedicated artificial intelligence acceleration module. It adopts the open-source and scalable RISC-V instruction set architecture. By integrating multi-core heterogeneous computing units, a high-throughput vector processing engine, and customized tensor computing hardware, it efficiently supports machine learning algorithms, neural network inference, and complex data parallel operations. Under the constraint of low-power design, it meets the stringent requirements for real-time performance, energy efficiency ratio, and computing density through hierarchical storage architecture optimization, dynamic voltage and frequency adjustment, and on-chip communication bus optimization techniques. Meanwhile, it supports flexibly configurable instruction extensions and the coordinated scheduling of hardware accelerators to adapt to the efficient execution of models with different precisions.

This report is a detailed and comprehensive analysis for global RISC-V AI SoC market. Both quantitative and qualitative analyses are presented by manufacturers, 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 RISC-V AI SoC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global RISC-V AI SoC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global RISC-V AI SoC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global RISC-V AI SoC market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2020-2025

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 RISC-V AI SoC

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 RISC-V AI SoC market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SiFive, Esperanto Technologies, Meta, Canaan Technology, Pingtoug (Shanghai) Semiconductor (Alibaba), Zhuhai Taixin Semiconductor, RIVAI Technologies (Shenzhen), Zhuhai Allwinner Technology, Shanghai StarFive Technology, Beijing Yisiwei Technology Group, etc.

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

Market Segmentation

RISC-V AI SoC market is split by Type and by Application. For the period 2020-2031,

the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Standard Extensions

Custom Extensions

Market segment by Application

Automotive Electronics

Aerospace

Industrial Internet of Things

Edge Computing

Others

Major players covered

SiFive

Esperanto Technologies

Meta

Canaan Technology

Pingtouge (Shanghai) Semiconductor (Alibaba)

Zhuhai Taixin Semiconductor

RIVAI Technologies (Shenzhen)

Zhuhai Allwinner Technology

Shanghai StarFive Technology

Beijing Yisiwei Technology Group

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe RISC-V AI SoC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of RISC-V AI SoC, with price, sales quantity, revenue, and global market share of RISC-V AI SoC from 2020 to 2025.

Chapter 3, the RISC-V AI SoC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the RISC-V AI SoC breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and RISC-V AI SoC market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of RISC-V AI SoC.

Chapter 14 and 15, to describe RISC-V AI SoC sales channel, distributors, customers, research findings and conclusion.

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