

Global RISC-V Processor Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global RISC-V Processor Chip market size is expected to reach \$ 7999 million by 2032, rising at a market growth of 18.6% CAGR during the forecast period (2026-2032).

RISC-V Processor Chip is a processor or system-on-chip built around the open RISC-V instruction set architecture. It can be used in microcontrollers, edge AI processors, application processors and embedded control devices, offering flexibility in customization, licensing and ecosystem development. In 2025, global RISC-V Processor Chip production reached approximately 3,200,000 K units.

The market is expanding first in embedded and IoT applications, where design flexibility and lower licensing friction are highly valued. RISC-V MCUs are increasingly used in wireless connectivity, smart home devices, industrial sensors and low-power controllers.

Higher-performance RISC-V chips are emerging in edge AI, storage controllers and application processors. Adoption in these segments depends on software ecosystem maturity, compiler support, operating-system compatibility and the availability of validated IP blocks.

China is an important demand and supply region because RISC-V supports domestic processor ecosystem development. Global adoption will remain uneven, but the architecture is becoming a mainstream alternative in cost-sensitive and customized embedded designs.

This report studies the global RISC-V Processor Chip production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global RISC-V Processor Chip total production and demand, 2021-2032, (K Units)

Global RISC-V Processor Chip total production value, 2021-2032, (USD Million)

Global RISC-V Processor Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global RISC-V Processor Chip consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: RISC-V Processor Chip domestic production, consumption, key domestic manufacturers and share

Global RISC-V Processor Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global RISC-V Processor Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global RISC-V Processor Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global RISC-V Processor Chip market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SiFive, Microchip, Espressif, Andes, StarFive, Sophgo, T-Head, Bouffalo Lab, GigaDevice, WCH, 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 RISC-V Processor Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, 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 RISC-V Processor Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global RISC-V Processor Chip Market, Segmentation by Type:

MCU Processor Chip

Application Processor

AI Edge Processor

SoC FPGA

Embedded Controller

Other

Global RISC-V Processor Chip Market, Segmentation by Instruction Extension:

RV32

RV64

Vector Extension

DSP Extension

Security Extension

Other

Global RISC-V Processor Chip Market, Segmentation by Core Class:

Single-core SoC

Multi-core SoC

Heterogeneous SoC

Other

Global RISC-V Processor Chip Market, Segmentation by Application:

IoT Device

Industrial Controller

Edge AI Terminal

Consumer Electronics

Automotive Body Control

Other

Companies Profiled:

SiFive

Microchip

Espressif

Andes

StarFive

Sophgo

T-Head

Bouffalo Lab

GigaDevice

WCH

Kendryte

GreenWaves

Key Questions Answered:

1. How big is the global RISC-V Processor Chip market?
2. What is the demand of the global RISC-V Processor Chip market?
3. What is the year over year growth of the global RISC-V Processor Chip market?
4. What is the production and production value of the global RISC-V Processor Chip market?
5. Who are the key producers in the global RISC-V Processor Chip market?
6. What are the growth factors driving the market demand?

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