

Global 32-bit RISC-V MCU Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 32-bit RISC-V MCU market size was valued at US\$ 221 million in 2025 and is forecast to a readjusted size of US\$ 915 million by 2032 with a CAGR of 22.5% during review period.

In 2024, global 32-bit RISC-V MCU production reached approximately 44.31 million units with an average global market price of around US\$4.84 per unit. Single-line annual production capacity averages 11 k unit with a gross margin of approximately 35-39%. The upstream of the 32-bit RISC-V MCU supply chain primarily includes high-performance processor cores, memory, analog, and mixed-signal components, which are concentrated in the semiconductor design and manufacturing sector. In terms of downstream applications, consumer electronics account for approximately 40%, industrial applications for about 30%, automotive for around 15%, wearable devices for about 10%, and other fields for approximately 5%. The market demand for 32-bit RISC-V MCUs is continuously growing, with business opportunities primarily focusing on technological upgrades and industrial transformations in areas such as the Internet of Things, smart homes, and edge computing.

The 32-bit RISC-V MCU is a microcontroller based on the RISC-V instruction set architecture, which is designed for 32-bit processing. This architecture is characterized by its simplicity, modularity, and open-source nature, allowing for a high degree of customization and scalability. The 32-bit RISC-V MCU is intended to provide a cost-effective solution for applications that require moderate to high computational capabilities, offering a balance between performance and power efficiency. The 32-bit design enables the MCU to handle more complex tasks and larger data sets compared to 8-bit or 16-bit MCUs, while still maintaining a compact form factor and competitive

cost. The RISC-V architecture's open-source nature promotes innovation and competition, leading to a diverse ecosystem of processors and software tools that can cater to a wide range of applications and development needs.

In the future, the development trends of the 32-bit RISC-V MCU industry will be primarily reflected in technological innovation, ecosystem development, customized solutions, enhanced security and reliability, low-power design, internationalization and standardization, application expansion, and intensified market competition. As the RISC-V instruction set architecture continues to mature and expand, these MCUs will benefit from more technological breakthroughs, such as more efficient instruction set extensions and more advanced process technologies. Simultaneously, the growth of the RISC-V open-source community will drive the development of development tools, operating systems, and middleware, forming a more comprehensive and vibrant ecosystem. To meet the needs of different applications, 32-bit RISC-V MCUs will offer more customized solutions, including different peripheral integrations, security enhancements, and power consumption optimizations. With the increasing demands for security and reliability in the Internet of Things and embedded systems, these MCUs will integrate more security features, such as hardware security modules, encryption engines, and fault detection and recovery mechanisms. To adapt to battery-powered devices and energy-saving requirements, 32-bit RISC-V MCUs will adopt more low-power design technologies, such as dynamic voltage and frequency scaling (DVFS), sleep modes, and power management units (PMUs). The openness and global nature of the RISC-V architecture will promote its internationalization and standardization processes, attracting more international partners and users. At the same time, the application of these MCUs will expand into more emerging fields, such as artificial intelligence, autonomous driving, and intelligent manufacturing, driving the rapid development of these sectors. With more manufacturers entering the market, the market competition for 32-bit RISC-V MCUs will intensify, which will also drive the decline in product prices and the improvement in performance. These comprehensive trends will collectively drive the development of the 32-bit RISC-V MCU industry, providing more efficient, secure, reliable, and cost-effective solutions for various applications.

This report is a detailed and comprehensive analysis for global 32-bit RISC-V MCU 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 32-bit RISC-V MCU market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 32-bit RISC-V MCU market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 32-bit RISC-V MCU market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 32-bit RISC-V MCU market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 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 32-bit RISC-V MCU

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 32-bit RISC-V MCU 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 Cortus, Kneron, Renesas Electronics, GigaDevice Semiconductor, Nanjing Qinsheng Microelectronics, Shanghai Espressif Systems, Aipute Microelectronics, XUANTIE, Xinsheng Technology, Suzhou ChipEXT Semiconductor, etc.

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

new product launches or approvals.

Market Segmentation

32-bit RISC-V MCU 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Below 220MHz

Above 220MHz

Market segment by Internal Processor Architecture

Homogeneous Structure MCU

Heterogeneous Structure MCU

Market segment by Number of Processor

Single-Core MCU

Multi-Core MCU

Market segment by Application

Automotive

Consumer Electronics

Wearable Devices

Industrial

Others

Major players covered

Cortus

Kneron

Renesas Electronics

GigaDevice Semiconductor

Nanjing Qinheng Microelectronics

Shanghai Espressif Systems

Aipute Microelectronics

XUANTIE

Xinsheng Technology

Suzhou ChipEXT Semiconductor

Shenzhen China Micro Semicon

Wuhan Binary Semiconductor

Nanjing Cercis Semiconductor

Shanghai Chipvtech

LinkedSemi Microelectronics (Hangzhou)

Nanjing Zhongke Microelectronics

Shanghai HPMICRO Semiconductor

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 32-bit RISC-V MCU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 32-bit RISC-V MCU, with price, sales quantity, revenue, and global market share of 32-bit RISC-V MCU from 2021 to 2026.

Chapter 3, the 32-bit RISC-V MCU competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 32-bit RISC-V MCU breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and 32-bit RISC-V MCU market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 32-bit RISC-V MCU.

Chapter 14 and 15, to describe 32-bit RISC-V MCU sales channel, distributors, customers, research findings and conclusion.

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