

# **Global RISC-V SoC for AI/ML 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 SoC for AI/ML market size was valued at US\$ 165 million in 2024 and is forecast to a readjusted size of USD 412 million by 2031 with a CAGR of 14.0% during review period.

A RISC-V SoC for AI/ML is a system-on-chip that integrates the RISC-V architecture and is specifically designed for artificial intelligence and machine learning applications. It features highly customizable hardware capabilities, allowing it to flexibly adjust computing resources according to different algorithms and tasks. For example, it can adapt to complex AI model computations by extending the instruction set. Meanwhile, it has an efficient data processing capacity and storage architecture, enabling it to quickly process large amounts of data and reduce data transmission latency. Its technical requirements encompass the optimization of the instruction set, the efficient design of processor cores, and the collaborative adaptation of hardware and software to ensure high-performance and flexible computing in the field of AI/ML.

This report is a detailed and comprehensive analysis for global RISC-V SoC for AI/ML 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 SoC for AI/ML market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2020-2031

Global RISC-V SoC for AI/ML 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 SoC for AI/ML 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 SoC for AI/ML 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 SoC for AI/ML

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 SoC for AI/ML 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, Pingtoug (Shanghai) Semiconductor (Alibaba), 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 SoC for AI/ML 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

Multi-core

Others

#### Market segment by Application

Automotive Electronics

Industrial Internet of Things

Edge Computing

Others

#### Major players covered

SiFive

Esperanto Technologies

Meta

Pingtouge (Shanghai) Semiconductor (Alibaba)

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 SoC for AI/ML product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the RISC-V SoC for AI/ML 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 SoC for AI/ML 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 SoC for AI/ML.

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

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global RISC-V SoC for AI/ML Consumption Value by Type: 2020 Versus 2024 Versus 2031
  - 1.3.2 Multi-core
  - 1.3.3 Others
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global RISC-V SoC for AI/ML Consumption Value by Application: 2020 Versus 2024 Versus 2031
  - 1.4.2 Automotive Electronics
  - 1.4.3 Industrial Internet of Things
  - 1.4.4 Edge Computing
  - 1.4.5 Others
- 1.5 Global RISC-V SoC for AI/ML Market Size & Forecast
  - 1.5.1 Global RISC-V SoC for AI/ML Consumption Value (2020 & 2024 & 2031)
  - 1.5.2 Global RISC-V SoC for AI/ML Sales Quantity (2020-2031)
  - 1.5.3 Global RISC-V SoC for AI/ML Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

- 2.1 SiFive
  - 2.1.1 SiFive Details
  - 2.1.2 SiFive Major Business
  - 2.1.3 SiFive RISC-V SoC for AI/ML Product and Services
  - 2.1.4 SiFive RISC-V SoC for AI/ML Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.1.5 SiFive Recent Developments/Updates
- 2.2 Esperanto Technologies
  - 2.2.1 Esperanto Technologies Details
  - 2.2.2 Esperanto Technologies Major Business
  - 2.2.3 Esperanto Technologies RISC-V SoC for AI/ML Product and Services
  - 2.2.4 Esperanto Technologies RISC-V SoC for AI/ML Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.2.5 Esperanto Technologies Recent Developments/Updates

## 2.3 Meta

### 2.3.1 Meta Details

### 2.3.2 Meta Major Business

### 2.3.3 Meta RISC-V SoC for AI/ML Product and Services

### 2.3.4 Meta RISC-V SoC for AI/ML Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.3.5 Meta Recent Developments/Updates

## 2.4 Pingtoug (Shanghai) Semiconductor (Alibaba)

### 2.4.1 Pingtoug (Shanghai) Semiconductor (Alibaba) Details

### 2.4.2 Pingtoug (Shanghai) Semiconductor (Alibaba) Major Business

### 2.4.3 Pingtoug (Shanghai) Semiconductor (Alibaba) RISC-V SoC for AI/ML Product and Services

### 2.4.4 Pingtoug (Shanghai) Semiconductor (Alibaba) RISC-V SoC for AI/ML Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.4.5 Pingtoug (Shanghai) Semiconductor (Alibaba) Recent Developments/Updates

## 2.5 Beijing Yisiwei Technology Group

### 2.5.1 Beijing Yisiwei Technology Group Details

### 2.5.2 Beijing Yisiwei Technology Group Major Business

### 2.5.3 Beijing Yisiwei Technology Group RISC-V SoC for AI/ML Product and Services

### 2.5.4 Beijing Yisiwei Technology Group RISC-V SoC for AI/ML Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.5.5 Beijing Yisiwei Technology Group Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: RISC-V SOC FOR AI/ML BY MANUFACTURER**

### 3.1 Global RISC-V SoC for AI/ML Sales Quantity by Manufacturer (2020-2025)

### 3.2 Global RISC-V SoC for AI/ML Revenue by Manufacturer (2020-2025)

### 3.3 Global RISC-V SoC for AI/ML Average Price by Manufacturer (2020-2025)

### 3.4 Market Share Analysis (2024)

#### 3.4.1 Producer Shipments of RISC-V SoC for AI/ML by Manufacturer Revenue (\$MM) and Market Share (%): 2024

#### 3.4.2 Top 3 RISC-V SoC for AI/ML Manufacturer Market Share in 2024

#### 3.4.3 Top 6 RISC-V SoC for AI/ML Manufacturer Market Share in 2024

### 3.5 RISC-V SoC for AI/ML Market: Overall Company Footprint Analysis

#### 3.5.1 RISC-V SoC for AI/ML Market: Region Footprint

#### 3.5.2 RISC-V SoC for AI/ML Market: Company Product Type Footprint

#### 3.5.3 RISC-V SoC for AI/ML Market: Company Product Application Footprint

### 3.6 New Market Entrants and Barriers to Market Entry

### 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

### **4.1 Global RISC-V SoC for AI/ML Market Size by Region**

- 4.1.1 Global RISC-V SoC for AI/ML Sales Quantity by Region (2020-2031)
- 4.1.2 Global RISC-V SoC for AI/ML Consumption Value by Region (2020-2031)
- 4.1.3 Global RISC-V SoC for AI/ML Average Price by Region (2020-2031)

### **4.2 North America RISC-V SoC for AI/ML Consumption Value (2020-2031)**

### **4.3 Europe RISC-V SoC for AI/ML Consumption Value (2020-2031)**

### **4.4 Asia-Pacific RISC-V SoC for AI/ML Consumption Value (2020-2031)**

### **4.5 South America RISC-V SoC for AI/ML Consumption Value (2020-2031)**

### **4.6 Middle East & Africa RISC-V SoC for AI/ML Consumption Value (2020-2031)**

## **5 MARKET SEGMENT BY TYPE**

### **5.1 Global RISC-V SoC for AI/ML Sales Quantity by Type (2020-2031)**

### **5.2 Global RISC-V SoC for AI/ML Consumption Value by Type (2020-2031)**

### **5.3 Global RISC-V SoC for AI/ML Average Price by Type (2020-2031)**

## **6 MARKET SEGMENT BY APPLICATION**

### **6.1 Global RISC-V SoC for AI/ML Sales Quantity by Application (2020-2031)**

### **6.2 Global RISC-V SoC for AI/ML Consumption Value by Application (2020-2031)**

### **6.3 Global RISC-V SoC for AI/ML Average Price by Application (2020-2031)**

## **7 NORTH AMERICA**

### **7.1 North America RISC-V SoC for AI/ML Sales Quantity by Type (2020-2031)**

### **7.2 North America RISC-V SoC for AI/ML Sales Quantity by Application (2020-2031)**

### **7.3 North America RISC-V SoC for AI/ML Market Size by Country**

#### **7.3.1 North America RISC-V SoC for AI/ML Sales Quantity by Country (2020-2031)**

#### **7.3.2 North America RISC-V SoC for AI/ML Consumption Value by Country (2020-2031)**

#### **7.3.3 United States Market Size and Forecast (2020-2031)**

#### **7.3.4 Canada Market Size and Forecast (2020-2031)**

#### **7.3.5 Mexico Market Size and Forecast (2020-2031)**

## **8 EUROPE**



- 8.1 Europe RISC-V SoC for AI/ML Sales Quantity by Type (2020-2031)
- 8.2 Europe RISC-V SoC for AI/ML Sales Quantity by Application (2020-2031)
- 8.3 Europe RISC-V SoC for AI/ML Market Size by Country
  - 8.3.1 Europe RISC-V SoC for AI/ML Sales Quantity by Country (2020-2031)
  - 8.3.2 Europe RISC-V SoC for AI/ML Consumption Value by Country (2020-2031)
  - 8.3.3 Germany Market Size and Forecast (2020-2031)
  - 8.3.4 France Market Size and Forecast (2020-2031)
  - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
  - 8.3.6 Russia Market Size and Forecast (2020-2031)
  - 8.3.7 Italy Market Size and Forecast (2020-2031)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific RISC-V SoC for AI/ML Market Size by Region
  - 9.3.1 Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Region (2020-2031)
  - 9.3.2 Asia-Pacific RISC-V SoC for AI/ML Consumption Value by Region (2020-2031)
  - 9.3.3 China Market Size and Forecast (2020-2031)
  - 9.3.4 Japan Market Size and Forecast (2020-2031)
  - 9.3.5 South Korea Market Size and Forecast (2020-2031)
  - 9.3.6 India Market Size and Forecast (2020-2031)
  - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
  - 9.3.8 Australia Market Size and Forecast (2020-2031)

## **10 SOUTH AMERICA**

- 10.1 South America RISC-V SoC for AI/ML Sales Quantity by Type (2020-2031)
- 10.2 South America RISC-V SoC for AI/ML Sales Quantity by Application (2020-2031)
- 10.3 South America RISC-V SoC for AI/ML Market Size by Country
  - 10.3.1 South America RISC-V SoC for AI/ML Sales Quantity by Country (2020-2031)
  - 10.3.2 South America RISC-V SoC for AI/ML Consumption Value by Country (2020-2031)
  - 10.3.3 Brazil Market Size and Forecast (2020-2031)
  - 10.3.4 Argentina Market Size and Forecast (2020-2031)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Type (2020-2031)



11.2 Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa RISC-V SoC for AI/ML Market Size by Country

11.3.1 Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa RISC-V SoC for AI/ML Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

## **12 MARKET DYNAMICS**

12.1 RISC-V SoC for AI/ML Market Drivers

12.2 RISC-V SoC for AI/ML Market Restraints

12.3 RISC-V SoC for AI/ML Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of RISC-V SoC for AI/ML and Key Manufacturers

13.2 Manufacturing Costs Percentage of RISC-V SoC for AI/ML

13.3 RISC-V SoC for AI/ML Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 RISC-V SoC for AI/ML Typical Distributors

14.3 RISC-V SoC for AI/ML Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global RISC-V SoC for AI/ML Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global RISC-V SoC for AI/ML Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. SiFive Basic Information, Manufacturing Base and Competitors

Table 4. SiFive Major Business

Table 5. SiFive RISC-V SoC for AI/ML Product and Services

Table 6. SiFive RISC-V SoC for AI/ML Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. SiFive Recent Developments/Updates

Table 8. Esperanto Technologies Basic Information, Manufacturing Base and Competitors

Table 9. Esperanto Technologies Major Business

Table 10. Esperanto Technologies RISC-V SoC for AI/ML Product and Services

Table 11. Esperanto Technologies RISC-V SoC for AI/ML Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Esperanto Technologies Recent Developments/Updates

Table 13. Meta Basic Information, Manufacturing Base and Competitors

Table 14. Meta Major Business

Table 15. Meta RISC-V SoC for AI/ML Product and Services

Table 16. Meta RISC-V SoC for AI/ML Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Meta Recent Developments/Updates

Table 18. Pingtoug (Shanghai) Semiconductor (Alibaba) Basic Information, Manufacturing Base and Competitors

Table 19. Pingtoug (Shanghai) Semiconductor (Alibaba) Major Business

Table 20. Pingtoug (Shanghai) Semiconductor (Alibaba) RISC-V SoC for AI/ML Product and Services

Table 21. Pingtoug (Shanghai) Semiconductor (Alibaba) RISC-V SoC for AI/ML Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Pingtoug (Shanghai) Semiconductor (Alibaba) Recent Developments/Updates

Table 23. Beijing Yisiwei Technology Group Basic Information, Manufacturing Base and

## Competitors

Table 24. Beijing Yisiwei Technology Group Major Business

Table 25. Beijing Yisiwei Technology Group RISC-V SoC for AI/ML Product and Services

Table 26. Beijing Yisiwei Technology Group RISC-V SoC for AI/ML Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Beijing Yisiwei Technology Group Recent Developments/Updates

Table 28. Global RISC-V SoC for AI/ML Sales Quantity by Manufacturer (2020-2025) & (Million Units)

Table 29. Global RISC-V SoC for AI/ML Revenue by Manufacturer (2020-2025) & (USD Million)

Table 30. Global RISC-V SoC for AI/ML Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 31. Market Position of Manufacturers in RISC-V SoC for AI/ML, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 32. Head Office and RISC-V SoC for AI/ML Production Site of Key Manufacturer

Table 33. RISC-V SoC for AI/ML Market: Company Product Type Footprint

Table 34. RISC-V SoC for AI/ML Market: Company Product Application Footprint

Table 35. RISC-V SoC for AI/ML New Market Entrants and Barriers to Market Entry

Table 36. RISC-V SoC for AI/ML Mergers, Acquisition, Agreements, and Collaborations

Table 37. Global RISC-V SoC for AI/ML Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 38. Global RISC-V SoC for AI/ML Sales Quantity by Region (2020-2025) & (Million Units)

Table 39. Global RISC-V SoC for AI/ML Sales Quantity by Region (2026-2031) & (Million Units)

Table 40. Global RISC-V SoC for AI/ML Consumption Value by Region (2020-2025) & (USD Million)

Table 41. Global RISC-V SoC for AI/ML Consumption Value by Region (2026-2031) & (USD Million)

Table 42. Global RISC-V SoC for AI/ML Average Price by Region (2020-2025) & (US\$/Unit)

Table 43. Global RISC-V SoC for AI/ML Average Price by Region (2026-2031) & (US\$/Unit)

Table 44. Global RISC-V SoC for AI/ML Sales Quantity by Type (2020-2025) & (Million Units)

Table 45. Global RISC-V SoC for AI/ML Sales Quantity by Type (2026-2031) & (Million Units)

Table 46. Global RISC-V SoC for AI/ML Consumption Value by Type (2020-2025) & (USD Million)

Table 47. Global RISC-V SoC for AI/ML Consumption Value by Type (2026-2031) & (USD Million)

Table 48. Global RISC-V SoC for AI/ML Average Price by Type (2020-2025) & (US\$/Unit)

Table 49. Global RISC-V SoC for AI/ML Average Price by Type (2026-2031) & (US\$/Unit)

Table 50. Global RISC-V SoC for AI/ML Sales Quantity by Application (2020-2025) & (Million Units)

Table 51. Global RISC-V SoC for AI/ML Sales Quantity by Application (2026-2031) & (Million Units)

Table 52. Global RISC-V SoC for AI/ML Consumption Value by Application (2020-2025) & (USD Million)

Table 53. Global RISC-V SoC for AI/ML Consumption Value by Application (2026-2031) & (USD Million)

Table 54. Global RISC-V SoC for AI/ML Average Price by Application (2020-2025) & (US\$/Unit)

Table 55. Global RISC-V SoC for AI/ML Average Price by Application (2026-2031) & (US\$/Unit)

Table 56. North America RISC-V SoC for AI/ML Sales Quantity by Type (2020-2025) & (Million Units)

Table 57. North America RISC-V SoC for AI/ML Sales Quantity by Type (2026-2031) & (Million Units)

Table 58. North America RISC-V SoC for AI/ML Sales Quantity by Application (2020-2025) & (Million Units)

Table 59. North America RISC-V SoC for AI/ML Sales Quantity by Application (2026-2031) & (Million Units)

Table 60. North America RISC-V SoC for AI/ML Sales Quantity by Country (2020-2025) & (Million Units)

Table 61. North America RISC-V SoC for AI/ML Sales Quantity by Country (2026-2031) & (Million Units)

Table 62. North America RISC-V SoC for AI/ML Consumption Value by Country (2020-2025) & (USD Million)

Table 63. North America RISC-V SoC for AI/ML Consumption Value by Country (2026-2031) & (USD Million)

Table 64. Europe RISC-V SoC for AI/ML Sales Quantity by Type (2020-2025) & (Million Units)

Table 65. Europe RISC-V SoC for AI/ML Sales Quantity by Type (2026-2031) & (Million

Units)

Table 66. Europe RISC-V SoC for AI/ML Sales Quantity by Application (2020-2025) & (Million Units)

Table 67. Europe RISC-V SoC for AI/ML Sales Quantity by Application (2026-2031) & (Million Units)

Table 68. Europe RISC-V SoC for AI/ML Sales Quantity by Country (2020-2025) & (Million Units)

Table 69. Europe RISC-V SoC for AI/ML Sales Quantity by Country (2026-2031) & (Million Units)

Table 70. Europe RISC-V SoC for AI/ML Consumption Value by Country (2020-2025) & (USD Million)

Table 71. Europe RISC-V SoC for AI/ML Consumption Value by Country (2026-2031) & (USD Million)

Table 72. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Type (2020-2025) & (Million Units)

Table 73. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Type (2026-2031) & (Million Units)

Table 74. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Application (2020-2025) & (Million Units)

Table 75. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Application (2026-2031) & (Million Units)

Table 76. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Region (2020-2025) & (Million Units)

Table 77. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity by Region (2026-2031) & (Million Units)

Table 78. Asia-Pacific RISC-V SoC for AI/ML Consumption Value by Region (2020-2025) & (USD Million)

Table 79. Asia-Pacific RISC-V SoC for AI/ML Consumption Value by Region (2026-2031) & (USD Million)

Table 80. South America RISC-V SoC for AI/ML Sales Quantity by Type (2020-2025) & (Million Units)

Table 81. South America RISC-V SoC for AI/ML Sales Quantity by Type (2026-2031) & (Million Units)

Table 82. South America RISC-V SoC for AI/ML Sales Quantity by Application (2020-2025) & (Million Units)

Table 83. South America RISC-V SoC for AI/ML Sales Quantity by Application (2026-2031) & (Million Units)

Table 84. South America RISC-V SoC for AI/ML Sales Quantity by Country (2020-2025) & (Million Units)



Table 85. South America RISC-V SoC for AI/ML Sales Quantity by Country (2026-2031) & (Million Units)

Table 86. South America RISC-V SoC for AI/ML Consumption Value by Country (2020-2025) & (USD Million)

Table 87. South America RISC-V SoC for AI/ML Consumption Value by Country (2026-2031) & (USD Million)

Table 88. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Type (2020-2025) & (Million Units)

Table 89. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Type (2026-2031) & (Million Units)

Table 90. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Application (2020-2025) & (Million Units)

Table 91. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Application (2026-2031) & (Million Units)

Table 92. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Country (2020-2025) & (Million Units)

Table 93. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity by Country (2026-2031) & (Million Units)

Table 94. Middle East & Africa RISC-V SoC for AI/ML Consumption Value by Country (2020-2025) & (USD Million)

Table 95. Middle East & Africa RISC-V SoC for AI/ML Consumption Value by Country (2026-2031) & (USD Million)

Table 96. RISC-V SoC for AI/ML Raw Material

Table 97. Key Manufacturers of RISC-V SoC for AI/ML Raw Materials

Table 98. RISC-V SoC for AI/ML Typical Distributors

Table 99. RISC-V SoC for AI/ML Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. RISC-V SoC for AI/ML Picture

Figure 2. Global RISC-V SoC for AI/ML Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global RISC-V SoC for AI/ML Revenue Market Share by Type in 2024

Figure 4. Multi-core Examples

Figure 5. Others Examples

Figure 6. Global RISC-V SoC for AI/ML Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global RISC-V SoC for AI/ML Revenue Market Share by Application in 2024

Figure 8. Automotive Electronics Examples

Figure 9. Industrial Internet of Things Examples

Figure 10. Edge Computing Examples

Figure 11. Others Examples

Figure 12. Global RISC-V SoC for AI/ML Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 13. Global RISC-V SoC for AI/ML Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 14. Global RISC-V SoC for AI/ML Sales Quantity (2020-2031) & (Million Units)

Figure 15. Global RISC-V SoC for AI/ML Price (2020-2031) & (US\$/Unit)

Figure 16. Global RISC-V SoC for AI/ML Sales Quantity Market Share by Manufacturer in 2024

Figure 17. Global RISC-V SoC for AI/ML Revenue Market Share by Manufacturer in 2024

Figure 18. Producer Shipments of RISC-V SoC for AI/ML by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 19. Top 3 RISC-V SoC for AI/ML Manufacturer (Revenue) Market Share in 2024

Figure 20. Top 6 RISC-V SoC for AI/ML Manufacturer (Revenue) Market Share in 2024

Figure 21. Global RISC-V SoC for AI/ML Sales Quantity Market Share by Region (2020-2031)

Figure 22. Global RISC-V SoC for AI/ML Consumption Value Market Share by Region (2020-2031)

Figure 23. North America RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 24. Europe RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 25. Asia-Pacific RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 26. South America RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 27. Middle East & Africa RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 28. Global RISC-V SoC for AI/ML Sales Quantity Market Share by Type (2020-2031)

Figure 29. Global RISC-V SoC for AI/ML Consumption Value Market Share by Type (2020-2031)

Figure 30. Global RISC-V SoC for AI/ML Average Price by Type (2020-2031) & (US\$/Unit)

Figure 31. Global RISC-V SoC for AI/ML Sales Quantity Market Share by Application (2020-2031)

Figure 32. Global RISC-V SoC for AI/ML Revenue Market Share by Application (2020-2031)

Figure 33. Global RISC-V SoC for AI/ML Average Price by Application (2020-2031) & (US\$/Unit)

Figure 34. North America RISC-V SoC for AI/ML Sales Quantity Market Share by Type (2020-2031)

Figure 35. North America RISC-V SoC for AI/ML Sales Quantity Market Share by Application (2020-2031)

Figure 36. North America RISC-V SoC for AI/ML Sales Quantity Market Share by Country (2020-2031)

Figure 37. North America RISC-V SoC for AI/ML Consumption Value Market Share by Country (2020-2031)

Figure 38. United States RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 39. Canada RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 40. Mexico RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 41. Europe RISC-V SoC for AI/ML Sales Quantity Market Share by Type (2020-2031)

Figure 42. Europe RISC-V SoC for AI/ML Sales Quantity Market Share by Application (2020-2031)

Figure 43. Europe RISC-V SoC for AI/ML Sales Quantity Market Share by Country (2020-2031)

Figure 44. Europe RISC-V SoC for AI/ML Consumption Value Market Share by Country

(2020-2031)

Figure 45. Germany RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 46. France RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 47. United Kingdom RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 48. Russia RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 49. Italy RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 50. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity Market Share by Type (2020-2031)

Figure 51. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity Market Share by Application (2020-2031)

Figure 52. Asia-Pacific RISC-V SoC for AI/ML Sales Quantity Market Share by Region (2020-2031)

Figure 53. Asia-Pacific RISC-V SoC for AI/ML Consumption Value Market Share by Region (2020-2031)

Figure 54. China RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 55. Japan RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 56. South Korea RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 57. India RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 58. Southeast Asia RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 59. Australia RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 60. South America RISC-V SoC for AI/ML Sales Quantity Market Share by Type (2020-2031)

Figure 61. South America RISC-V SoC for AI/ML Sales Quantity Market Share by Application (2020-2031)

Figure 62. South America RISC-V SoC for AI/ML Sales Quantity Market Share by Country (2020-2031)

Figure 63. South America RISC-V SoC for AI/ML Consumption Value Market Share by Country (2020-2031)

Figure 64. Brazil RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD

Million)

Figure 65. Argentina RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 66. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity Market Share by Type (2020-2031)

Figure 67. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity Market Share by Application (2020-2031)

Figure 68. Middle East & Africa RISC-V SoC for AI/ML Sales Quantity Market Share by Country (2020-2031)

Figure 69. Middle East & Africa RISC-V SoC for AI/ML Consumption Value Market Share by Country (2020-2031)

Figure 70. Turkey RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 71. Egypt RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 72. Saudi Arabia RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 73. South Africa RISC-V SoC for AI/ML Consumption Value (2020-2031) & (USD Million)

Figure 74. RISC-V SoC for AI/ML Market Drivers

Figure 75. RISC-V SoC for AI/ML Market Restraints

Figure 76. RISC-V SoC for AI/ML Market Trends

Figure 77. PortersFive Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of RISC-V SoC for AI/ML in 2024

Figure 79. Manufacturing Process Analysis of RISC-V SoC for AI/ML

Figure 80. RISC-V SoC for AI/ML Industrial Chain

Figure 81. Sales Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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