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Global CPU Instruction Set Architecture (ISA) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CPU Instruction Set Architecture (ISA) market size is expected to reach $ 8407 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

CPU Instruction Set Architecture (ISA) and Processor IP refer to the architectural specifications that define the software-visible behavior of a processor and the licensable processor cores, architecture licenses, tools, verification environments, and ecosystem support built around those specifications. This market focuses on commercial CPU architecture licensing, processor core IP, architecture support services, and attributable CPU-core royalty revenue. Typical products and models include Arm architecture and CPU IP, RISC-V standard-based processor IP, configurable processor cores, embedded CPU IP, real-time processor IP, high-performance CPU IP, and regional or proprietary ISA ecosystems. The market scope emphasizes architecture standards, RTL or synthesizable IP, soft cores, architecture licenses, software toolchains, validation packages, and long-term ecosystem support used by semiconductor companies to build SoCs for mobile, automotive, IoT, edge AI, data center, storage, networking, and industrial applications.

Key Findings

Arm leads commercial ISA monetization

RISC-V drives open-standard growth

Processor IP demand shifts to customization

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Automotive and AIoT accelerate adoption

x86 value remains platform-centered

China expands regional ISA ecosystems

Market Trends

The CPU ISA and Processor IP market is moving from fixed processor-core licensing toward configurable, extensible, and ecosystem-backed processor platforms. Customers increasingly require not only a CPU core, but also toolchains, verification suites, safety packages, reference platforms, compiler support, and long-term software compatibility. Arm continues to monetize a mature licensing and royalty model, while RISC-V is expanding through open-standard adoption and commercial IP implementations. The market is also shifting toward domain-specific customization, where customers use custom instructions, vector extensions, security features, and tightly integrated processor subsystems to optimize AI, automotive, storage, networking, and edge workloads.

Market Dynamics

Drivers

Demand is driven by growth in AIoT, automotive electronics, edge AI, smart sensors, storage controllers, security processors, industrial SoCs, and customized data-center silicon. Chip designers increasingly want processor architectures that reduce time-to-market while allowing differentiation in power, performance, safety, and software compatibility. Regional supply-chain autonomy is also strengthening interest in RISC-V and domestic ISA ecosystems.

Restraints

Market expansion is constrained by software ecosystem maturity, verification complexity, safety certification requirements, and the high cost of building compiler, operating-system, debug, and middleware support. Open ISA availability does not automatically create commercial value; vendors still need validated IP, development tools, customer support, and a long-term roadmap. For proprietary architectures, licensing cost and vendor dependence remain concerns for some customers.

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Opportunities

The strongest opportunities are in configurable RISC-V IP, automotive functional-safety cores, AI edge control processors, high-performance RISC-V CPU IP, secure processors, storage and networking control cores, and regionally sovereign computing ecosystems. As SoC architectures become more heterogeneous, processor IP suppliers that can provide complete subsystems, verified extensions, and software stacks can capture more value than vendors selling standalone cores.

Challenges

The industry faces challenges from blurred boundaries between CPU, DSP, NPU, and accelerator IP; uneven RISC-V software maturity across applications; pricing pressure in low-end embedded cores; and uncertainty in private IP vendors' long-term customer traction. Proprietary ISA suppliers must maintain ecosystem consistency while responding to open-standard competition, and open-standard vendors must avoid software fragmentation caused by excessive custom extensions.

Industry Chain Analysis

The upstream layer includes ISA specifications, microarchitecture research, compiler toolchains, RTL design, verification IP, simulation models, debug tools, operating-system enablement, safety documentation, and reference platforms. The most value-sensitive elements are software compatibility, verification maturity, power-performance-area optimization, security features, functional-safety support, and long-term roadmap stability. ISA governance organizations shape the standards layer, while commercial processor IP vendors turn those specifications into silicon-ready implementations.

The midstream consists of CPU IP licensors, configurable processor suppliers, RISC-V IP vendors, architecture license providers, and processor subsystem companies. Downstream customers include fabless semiconductor companies, IDMs, automotive chip suppliers, hyperscalers, AI accelerator developers, storage controller vendors, MCU suppliers, industrial SoC companies, and regional sovereign computing programs. Value is captured through license fees, royalties, support services, customization, software ecosystem enablement, and reference designs.

Segment Insights

By architecture family, Arm remains the largest commercial monetization platform, while RISC-V is the fastest-growing open-standard ecosystem. x86 remains highly valuable in

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PCs and servers, but its market value is mostly embedded in processor platforms rather than broad external ISA licensing. Power and LoongArch represent smaller but strategically relevant ecosystems in enterprise and regional computing. By business model, royalty-based and architecture licensing models generate high long-term value, while RISC-V commercial vendors increasingly monetize through configurable processor IP, subsystem licensing, and customization support.

By processor class, microcontroller and embedded processor IP provide broad unit coverage, while application processor and server-class IP represent higher-value but more difficult markets. Automotive, AI edge, security, and storage/networking control cores are attractive because they require more verification, customization, safety support, and long product lifecycles. Configurable and extensible processor IP is gaining share as customers seek workload-specific differentiation without building a CPU ecosystem from scratch.

Downstream Market Opportunities

The strongest downstream opportunities are in automotive domain controllers, AI accelerators requiring control processors, edge AI SoCs, secure IoT devices, storage controllers, smart sensors, industrial control chips, and customized cloud silicon. Customers increasingly evaluate processor IP by ecosystem readiness, verification evidence, compiler support, safety collateral, integration effort, and roadmap continuity. This creates opportunities for suppliers that can deliver not just cores, but complete processor platforms with software and validation support.

Regional Insights

North America is the largest center for commercial processor IP and architecture ecosystems, with major EDA/IP companies, x86 ecosystem holders, RISC-V startups, and AI processor IP suppliers. Europe is anchored by Arm and supported by specialized RISC-V and automotive-oriented IP vendors. China is developing a regional ecosystem around Arm China, LoongArch, RISC-V IP, and domestic processor design programs. Taiwan is important through Andes and the broader embedded semiconductor ecosystem. Japan and South Korea are more significant as customers and SoC implementers than as global CPU ISA/IP licensors.

Competitive Landscape Analysis

The competitive landscape is layered. Arm leads in commercial revenue, licensing maturity, and ecosystem breadth. RISC-V International leads the open-standard layer,

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while SiFive, Andes, Codasip, Synopsys ARC-V, GF/MIPS, Nuclei, Ventana, and emerging vendors compete to commercialize RISC-V implementations. Intel and AMD maintain x86's platform relevance through software compatibility and hardware ecosystem consistency, while regional architectures such as LoongArch serve sovereignty and localization needs. Future competition will depend less on ISA ownership alone and more on the ability to provide silicon-ready IP, software enablement, verification, safety support, customization, and long-term ecosystem stability.

Report Scope

This report studies the global CPU Instruction Set Architecture (ISA) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for CPU Instruction Set Architecture (ISA), 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 CPU Instruction Set Architecture (ISA) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CPU Instruction Set Architecture (ISA) total market, 2021-2032, (USD Million)

Global CPU Instruction Set Architecture (ISA) total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: CPU Instruction Set Architecture (ISA) total market, key domestic companies, and share, (USD Million)

Global CPU Instruction Set Architecture (ISA) revenue by player, revenue and market share 2021-2026, (USD Million)

Global CPU Instruction Set Architecture (ISA) total market by Architecture Family, CAGR, 2021-2032, (USD Million)

Global CPU Instruction Set Architecture (ISA) total market by Application, CAGR, 2021-2032, (USD Million)

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This report profiles major players in the global CPU Instruction Set Architecture (ISA) 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 Holdings plc, RISC-V International, Synopsys, Inc., Cadence Design Systems, Inc., SiFive, Inc., Andes Technology Corporation, Intel Corporation, Advanced Micro Devices, Inc., Codasip, GlobalFoundries 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 CPU Instruction Set Architecture (ISA) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Architecture Family, 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 CPU Instruction Set Architecture (ISA) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global CPU Instruction Set Architecture (ISA) Market, Segmentation by Architecture Family:

Arm Architecture

x86 Architecture

RISC-V Architecture

Power Architecture

Global CPU Instruction Set Architecture (ISA) Market, Segmentation by Business Model:

Architecture Licensing

Processor Core IP Licensing

Royalty-based Licensing

Open Standard Governance

Global CPU Instruction Set Architecture (ISA) Market, Segmentation by Processor Class:

Application Processor IP

Microcontroller Processor IP

Real-time Processor IP

DSP-like / Signal Processor IP

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High-performance / Server-class IP

Global CPU Instruction Set Architecture (ISA) Market, Segmentation by Application:

Mobile and Consumer SoCs

Automotive Electronics

IoT and Embedded Control

Data Center and Cloud

Companies Profiled:

Arm Holdings plc

RISC-V International

Synopsys, Inc.

Cadence Design Systems, Inc.

SiFive, Inc.

Andes Technology Corporation

Intel Corporation

Advanced Micro Devices, Inc.

Codasip

GlobalFoundries Inc.

Nuclei System Technology

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Arm China

IBM Corporation

Loongson Technology Corporation Limited

Ventana Micro Systems

CEVA, Inc.

Key Questions Answered

1. How big is the global CPU Instruction Set Architecture (ISA) market?
2. What is the demand of the global CPU Instruction Set Architecture (ISA) market?
3. What is the year over year growth of the global CPU Instruction Set Architecture (ISA) market?
4. What is the total value of the global CPU Instruction Set Architecture (ISA) market?
5. Who are the Major Players in the global CPU Instruction Set Architecture (ISA) market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY
1.1 CPU Instruction Set Architecture (ISA) Introduction
1.2 World CPU Instruction Set Architecture (ISA) Market Size & Forecast (2021 & 2025 & 2032)
1.3 World CPU Instruction Set Architecture (ISA) Total Market by Region (by Headquarter Location)
  1.3.1 World CPU Instruction Set Architecture (ISA) Market Size by Region (2021-2032), (by Headquarter Location)
  1.3.2 United States Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032)
  1.3.3 China Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032)
  1.3.4 Europe Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032)
  1.3.5 Japan Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032)
  1.3.6 South Korea Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032)
  1.3.7 ASEAN Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032)
  1.3.8 India Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 CPU Instruction Set Architecture (ISA) Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Major Market Trends

2 DEMAND SUMMARY
2.1 World CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032)
2.2 World CPU Instruction Set Architecture (ISA) Consumption Value by Region
  2.2.1 World CPU Instruction Set Architecture (ISA) Consumption Value by Region (2021-2026)
  2.2.2 World CPU Instruction Set Architecture (ISA) Consumption Value Forecast by Region (2027-2032)
2.3 United States CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032)
2.4 China CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032)

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2.5 Europe CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032)
2.6 Japan CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032)
2.7 South Korea CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032)
2.8 ASEAN CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032)
2.9 India CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032)

3 WORLD CPU INSTRUCTION SET ARCHITECTURE (ISA) COMPANIES COMPETITIVE ANALYSIS
3.1 World CPU Instruction Set Architecture (ISA) Revenue by Player (2021-2026)
3.2 Industry Rank and Concentration Rate (CR)
  3.2.1 Global CPU Instruction Set Architecture (ISA) Industry Rank of Major Players
  3.2.2 Global Concentration Ratios (CR4) for CPU Instruction Set Architecture (ISA) in 2025
  3.2.3 Global Concentration Ratios (CR8) for CPU Instruction Set Architecture (ISA) in 2025
3.3 CPU Instruction Set Architecture (ISA) Company Evaluation Quadrant
3.4 CPU Instruction Set Architecture (ISA) Market: Overall Company Footprint Analysis
  3.4.1 CPU Instruction Set Architecture (ISA) Market: Region Footprint
  3.4.2 CPU Instruction Set Architecture (ISA) Market: Company Product Type Footprint
  3.4.3 CPU Instruction Set Architecture (ISA) Market: Company Product Application Footprint
3.5 Competitive Environment
  3.5.1 Historical Structure of the Industry
  3.5.2 Barriers of Market Entry
  3.5.3 Factors of Competition
3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)
4.1 United States VS China: CPU Instruction Set Architecture (ISA) Revenue Comparison (by Headquarter Location)
  4.1.1 United States VS China: CPU Instruction Set Architecture (ISA) Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
  4.1.2 United States VS China: CPU Instruction Set Architecture (ISA) Revenue Market Share Comparison (2021 & 2025 & 2032)
4.2 United States Based Companies VS China Based Companies: CPU Instruction Set Architecture (ISA) Consumption Value Comparison
  4.2.1 United States VS China: CPU Instruction Set Architecture (ISA) Consumption

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Value Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: CPU Instruction Set Architecture (ISA) Consumption Value Market Share Comparison (2021 & 2025 & 2032)
4.3 United States Based CPU Instruction Set Architecture (ISA) Companies and Market Share, 2021-2026
4.3.1 United States Based CPU Instruction Set Architecture (ISA) Companies, Headquarters (States, Country)
4.3.2 United States Based Companies CPU Instruction Set Architecture (ISA) Revenue, (2021-2026)
4.4 China Based Companies CPU Instruction Set Architecture (ISA) Revenue and Market Share, 2021-2026
4.4.1 China Based CPU Instruction Set Architecture (ISA) Companies, Company Headquarters (Province, Country)
4.4.2 China Based Companies CPU Instruction Set Architecture (ISA) Revenue, (2021-2026)
4.5 Rest of World Based CPU Instruction Set Architecture (ISA) Companies and Market Share, 2021-2026
4.5.1 Rest of World Based CPU Instruction Set Architecture (ISA) Companies, Headquarters (Province, Country)
4.5.2 Rest of World Based Companies CPU Instruction Set Architecture (ISA) Revenue (2021-2026)

5 MARKET ANALYSIS BY ARCHITECTURE FAMILY
5.1 World CPU Instruction Set Architecture (ISA) Market Size Overview by Architecture Family: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Architecture Family
5.2.1 Arm Architecture
5.2.2 x86 Architecture
5.2.3 RISC-V Architecture
5.2.4 Power Architecture
5.3 Market Segment by Architecture Family
5.3.1 World CPU Instruction Set Architecture (ISA) Market Size by Architecture Family (2021-2026)
5.3.2 World CPU Instruction Set Architecture (ISA) Market Size by Architecture Family (2027-2032)
5.3.3 World CPU Instruction Set Architecture (ISA) Market Size Market Share by Architecture Family (2027-2032)

6 MARKET ANALYSIS BY BUSINESS MODEL

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6.1 World CPU Instruction Set Architecture (ISA) Market Size Overview by Business Model: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Business Model
6.2.1 Architecture Licensing
6.2.2 Processor Core IP Licensing
6.2.3 Royalty-based Licensing
6.2.4 Open Standard Governance
6.3 Market Segment by Business Model
6.3.1 World CPU Instruction Set Architecture (ISA) Market Size by Business Model (2021-2026)
6.3.2 World CPU Instruction Set Architecture (ISA) Market Size by Business Model (2027-2032)
6.3.3 World CPU Instruction Set Architecture (ISA) Market Size Market Share by Business Model (2027-2032)

7 MARKET ANALYSIS BY PROCESSOR CLASS
7.1 World CPU Instruction Set Architecture (ISA) Market Size Overview by Processor Class: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Processor Class
7.2.1 Application Processor IP
7.2.2 Microcontroller Processor IP
7.2.3 Real-time Processor IP
7.2.4 DSP-like / Signal Processor IP
7.2.5 High-performance / Server-class IP
7.3 Market Segment by Processor Class
7.3.1 World CPU Instruction Set Architecture (ISA) Market Size by Processor Class (2021-2026)
7.3.2 World CPU Instruction Set Architecture (ISA) Market Size by Processor Class (2027-2032)
7.3.3 World CPU Instruction Set Architecture (ISA) Market Size Market Share by Processor Class (2027-2032)

8 MARKET ANALYSIS BY APPLICATION
8.1 World CPU Instruction Set Architecture (ISA) Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Mobile and Consumer SoCs
8.2.2 Automotive Electronics
8.2.3 IoT and Embedded Control

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info@marketpublishers.com

8.2.4 Data Center and Cloud
8.3 Market Segment by Application
8.3.1 World CPU Instruction Set Architecture (ISA) Market Size by Application (2021-2026)
8.3.2 World CPU Instruction Set Architecture (ISA) Market Size by Application (2027-2032)
8.3.3 World CPU Instruction Set Architecture (ISA) Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Arm Holdings plc
9.1.1 Arm Holdings plc Details
9.1.2 Arm Holdings plc Major Business
9.1.3 Arm Holdings plc CPU Instruction Set Architecture (ISA) Product and Services
9.1.4 Arm Holdings plc CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.1.5 Arm Holdings plc Recent Developments/Updates
9.1.6 Arm Holdings plc Competitive Strengths & Weaknesses
9.2 RISC-V International
9.2.1 RISC-V International Details
9.2.2 RISC-V International Major Business
9.2.3 RISC-V International CPU Instruction Set Architecture (ISA) Product and Services
9.2.4 RISC-V International CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.2.5 RISC-V International Recent Developments/Updates
9.2.6 RISC-V International Competitive Strengths & Weaknesses
9.3 Synopsys, Inc.
9.3.1 Synopsys, Inc. Details
9.3.2 Synopsys, Inc. Major Business
9.3.3 Synopsys, Inc. CPU Instruction Set Architecture (ISA) Product and Services
9.3.4 Synopsys, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.3.5 Synopsys, Inc. Recent Developments/Updates
9.3.6 Synopsys, Inc. Competitive Strengths & Weaknesses
9.4 Cadence Design Systems, Inc.
9.4.1 Cadence Design Systems, Inc. Details
9.4.2 Cadence Design Systems, Inc. Major Business
9.4.3 Cadence Design Systems, Inc. CPU Instruction Set Architecture (ISA) Product

+357 96 030922
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and Services
9.4.4 Cadence Design Systems, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.4.5 Cadence Design Systems, Inc. Recent Developments/Updates
9.4.6 Cadence Design Systems, Inc. Competitive Strengths & Weaknesses
9.5 SiFive, Inc.
9.5.1 SiFive, Inc. Details
9.5.2 SiFive, Inc. Major Business
9.5.3 SiFive, Inc. CPU Instruction Set Architecture (ISA) Product and Services
9.5.4 SiFive, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.5.5 SiFive, Inc. Recent Developments/Updates
9.5.6 SiFive, Inc. Competitive Strengths & Weaknesses
9.6 Andes Technology Corporation
9.6.1 Andes Technology Corporation Details
9.6.2 Andes Technology Corporation Major Business
9.6.3 Andes Technology Corporation CPU Instruction Set Architecture (ISA) Product and Services
9.6.4 Andes Technology Corporation CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.6.5 Andes Technology Corporation Recent Developments/Updates
9.6.6 Andes Technology Corporation Competitive Strengths & Weaknesses
9.7 Intel Corporation
9.7.1 Intel Corporation Details
9.7.2 Intel Corporation Major Business
9.7.3 Intel Corporation CPU Instruction Set Architecture (ISA) Product and Services
9.7.4 Intel Corporation CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.7.5 Intel Corporation Recent Developments/Updates
9.7.6 Intel Corporation Competitive Strengths & Weaknesses
9.8 Advanced Micro Devices, Inc.
9.8.1 Advanced Micro Devices, Inc. Details
9.8.2 Advanced Micro Devices, Inc. Major Business
9.8.3 Advanced Micro Devices, Inc. CPU Instruction Set Architecture (ISA) Product and Services
9.8.4 Advanced Micro Devices, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.8.5 Advanced Micro Devices, Inc. Recent Developments/Updates
9.8.6 Advanced Micro Devices, Inc. Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

9.9 Codasip
9.9.1 Codasip Details
9.9.2 Codasip Major Business
9.9.3 Codasip CPU Instruction Set Architecture (ISA) Product and Services
9.9.4 Codasip CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.9.5 Codasip Recent Developments/Updates
9.9.6 Codasip Competitive Strengths & Weaknesses
9.10 GlobalFoundries Inc.
9.10.1 GlobalFoundries Inc. Details
9.10.2 GlobalFoundries Inc. Major Business
9.10.3 GlobalFoundries Inc. CPU Instruction Set Architecture (ISA) Product and Services
9.10.4 GlobalFoundries Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.10.5 GlobalFoundries Inc. Recent Developments/Updates
9.10.6 GlobalFoundries Inc. Competitive Strengths & Weaknesses
9.11 Nuclei System Technology
9.11.1 Nuclei System Technology Details
9.11.2 Nuclei System Technology Major Business
9.11.3 Nuclei System Technology CPU Instruction Set Architecture (ISA) Product and Services
9.11.4 Nuclei System Technology CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.11.5 Nuclei System Technology Recent Developments/Updates
9.11.6 Nuclei System Technology Competitive Strengths & Weaknesses
9.12 Arm China
9.12.1 Arm China Details
9.12.2 Arm China Major Business
9.12.3 Arm China CPU Instruction Set Architecture (ISA) Product and Services
9.12.4 Arm China CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.12.5 Arm China Recent Developments/Updates
9.12.6 Arm China Competitive Strengths & Weaknesses
9.13 IBM Corporation
9.13.1 IBM Corporation Details
9.13.2 IBM Corporation Major Business
9.13.3 IBM Corporation CPU Instruction Set Architecture (ISA) Product and Services
9.13.4 IBM Corporation CPU Instruction Set Architecture (ISA) Revenue, Gross Margin

+357 96 030922
info@marketpublishers.com

and Market Share (2021-2026)
9.13.5 IBM Corporation Recent Developments/Updates
9.13.6 IBM Corporation Competitive Strengths & Weaknesses
9.14 Loongson Technology Corporation Limited
9.14.1 Loongson Technology Corporation Limited Details
9.14.2 Loongson Technology Corporation Limited Major Business
9.14.3 Loongson Technology Corporation Limited CPU Instruction Set Architecture (ISA) Product and Services
9.14.4 Loongson Technology Corporation Limited CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.14.5 Loongson Technology Corporation Limited Recent Developments/Updates
9.14.6 Loongson Technology Corporation Limited Competitive Strengths & Weaknesses
9.15 Ventana Micro Systems
9.15.1 Ventana Micro Systems Details
9.15.2 Ventana Micro Systems Major Business
9.15.3 Ventana Micro Systems CPU Instruction Set Architecture (ISA) Product and Services
9.15.4 Ventana Micro Systems CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.15.5 Ventana Micro Systems Recent Developments/Updates
9.15.6 Ventana Micro Systems Competitive Strengths & Weaknesses
9.16 CEVA, Inc.
9.16.1 CEVA, Inc. Details
9.16.2 CEVA, Inc. Major Business
9.16.3 CEVA, Inc. CPU Instruction Set Architecture (ISA) Product and Services
9.16.4 CEVA, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026)
9.16.5 CEVA, Inc. Recent Developments/Updates
9.16.6 CEVA, Inc. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS
10.1 CPU Instruction Set Architecture (ISA) Industry Chain
10.2 CPU Instruction Set Architecture (ISA) Upstream Analysis
10.3 CPU Instruction Set Architecture (ISA) Midstream Analysis
10.4 CPU Instruction Set Architecture (ISA) Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World CPU Instruction Set Architecture (ISA) Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Table 2. World CPU Instruction Set Architecture (ISA) Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)
Table 3. World CPU Instruction Set Architecture (ISA) Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)
Table 4. World CPU Instruction Set Architecture (ISA) Revenue Market Share by Region (2021-2026), (by Headquarter Location)
Table 5. World CPU Instruction Set Architecture (ISA) Revenue Market Share by Region (2027-2032), (by Headquarter Location)
Table 6. Major Market Trends
Table 7. World CPU Instruction Set Architecture (ISA) Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)
Table 8. World CPU Instruction Set Architecture (ISA) Consumption Value by Region (2021-2026) & (USD Million)
Table 9. World CPU Instruction Set Architecture (ISA) Consumption Value Forecast by Region (2027-2032) & (USD Million)
Table 10. World CPU Instruction Set Architecture (ISA) Revenue by Player (2021-2026) & (USD Million)
Table 11. Revenue Market Share of Key CPU Instruction Set Architecture (ISA) Players in 2025
Table 12. World CPU Instruction Set Architecture (ISA) Industry Rank of Major Player, Based on Revenue in 2025
Table 13. Global CPU Instruction Set Architecture (ISA) Company Evaluation Quadrant
Table 14. Head Office of Key CPU Instruction Set Architecture (ISA) Players
Table 15. CPU Instruction Set Architecture (ISA) Market: Company Product Type Footprint
Table 16. CPU Instruction Set Architecture (ISA) Market: Company Product Application Footprint
Table 17. CPU Instruction Set Architecture (ISA) Mergers & Acquisitions Activity
Table 18. United States VS China CPU Instruction Set Architecture (ISA) Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 19. United States VS China CPU Instruction Set Architecture (ISA) Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 20. United States Based CPU Instruction Set Architecture (ISA) Companies,

+357 96 030922
info@marketpublishers.com

Headquarters (States, Country)
Table 21. United States Based Companies CPU Instruction Set Architecture (ISA) Revenue, (2021-2026) & (USD Million)
Table 22. United States Based Companies CPU Instruction Set Architecture (ISA) Revenue Market Share (2021-2026)
Table 23. China Based CPU Instruction Set Architecture (ISA) Companies, Headquarters (Province, Country)
Table 24. China Based Companies CPU Instruction Set Architecture (ISA) Revenue, (2021-2026) & (USD Million)
Table 25. China Based Companies CPU Instruction Set Architecture (ISA) Revenue Market Share (2021-2026)
Table 26. Rest of World Based CPU Instruction Set Architecture (ISA) Companies, Headquarters (Province, Country)
Table 27. Rest of World Based Companies CPU Instruction Set Architecture (ISA) Revenue (2021-2026) & (USD Million)
Table 28. Rest of World Based Companies CPU Instruction Set Architecture (ISA) Revenue Market Share (2021-2026)
Table 29. World CPU Instruction Set Architecture (ISA) Market Size by Architecture Family, (USD Million), 2021 & 2025 & 2032
Table 30. World CPU Instruction Set Architecture (ISA) Market Size Value by Architecture Family (2021-2026) & (USD Million)
Table 31. World CPU Instruction Set Architecture (ISA) Market Size by Architecture Family (2027-2032) & (USD Million)
Table 32. World CPU Instruction Set Architecture (ISA) Market Size by Business Model, (USD Million), 2021 & 2025 & 2032
Table 33. World CPU Instruction Set Architecture (ISA) Market Size Value by Business Model (2021-2026) & (USD Million)
Table 34. World CPU Instruction Set Architecture (ISA) Market Size by Business Model (2027-2032) & (USD Million)
Table 35. World CPU Instruction Set Architecture (ISA) Market Size by Processor Class, (USD Million), 2021 & 2025 & 2032
Table 36. World CPU Instruction Set Architecture (ISA) Market Size Value by Processor Class (2021-2026) & (USD Million)
Table 37. World CPU Instruction Set Architecture (ISA) Market Size by Processor Class (2027-2032) & (USD Million)
Table 38. World CPU Instruction Set Architecture (ISA) Market Size by Application, (USD Million), 2021 & 2025 & 2032
Table 39. World CPU Instruction Set Architecture (ISA) Market Size by Application (2021-2026) & (USD Million)

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Table 40. World CPU Instruction Set Architecture (ISA) Market Size by Application (2027-2032) & (USD Million)
Table 41. Arm Holdings plc Basic Information, Manufacturing Base and Competitors
Table 42. Arm Holdings plc Major Business
Table 43. Arm Holdings plc CPU Instruction Set Architecture (ISA) Product and Services
Table 44. Arm Holdings plc CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 45. Arm Holdings plc Recent Developments/Updates
Table 46. Arm Holdings plc Competitive Strengths & Weaknesses
Table 47. RISC-V International Basic Information, Manufacturing Base and Competitors
Table 48. RISC-V International Major Business
Table 49. RISC-V International CPU Instruction Set Architecture (ISA) Product and Services
Table 50. RISC-V International CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 51. RISC-V International Recent Developments/Updates
Table 52. RISC-V International Competitive Strengths & Weaknesses
Table 53. Synopsys, Inc. Basic Information, Manufacturing Base and Competitors
Table 54. Synopsys, Inc. Major Business
Table 55. Synopsys, Inc. CPU Instruction Set Architecture (ISA) Product and Services
Table 56. Synopsys, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 57. Synopsys, Inc. Recent Developments/Updates
Table 58. Synopsys, Inc. Competitive Strengths & Weaknesses
Table 59. Cadence Design Systems, Inc. Basic Information, Manufacturing Base and Competitors
Table 60. Cadence Design Systems, Inc. Major Business
Table 61. Cadence Design Systems, Inc. CPU Instruction Set Architecture (ISA) Product and Services
Table 62. Cadence Design Systems, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 63. Cadence Design Systems, Inc. Recent Developments/Updates
Table 64. Cadence Design Systems, Inc. Competitive Strengths & Weaknesses
Table 65. SiFive, Inc. Basic Information, Manufacturing Base and Competitors
Table 66. SiFive, Inc. Major Business
Table 67. SiFive, Inc. CPU Instruction Set Architecture (ISA) Product and Services
Table 68. SiFive, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

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Table 69. SiFive, Inc. Recent Developments/Updates
Table 70. SiFive, Inc. Competitive Strengths & Weaknesses
Table 71. Andes Technology Corporation Basic Information, Manufacturing Base and Competitors
Table 72. Andes Technology Corporation Major Business
Table 73. Andes Technology Corporation CPU Instruction Set Architecture (ISA) Product and Services
Table 74. Andes Technology Corporation CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 75. Andes Technology Corporation Recent Developments/Updates
Table 76. Andes Technology Corporation Competitive Strengths & Weaknesses
Table 77. Intel Corporation Basic Information, Manufacturing Base and Competitors
Table 78. Intel Corporation Major Business
Table 79. Intel Corporation CPU Instruction Set Architecture (ISA) Product and Services
Table 80. Intel Corporation CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 81. Intel Corporation Recent Developments/Updates
Table 82. Intel Corporation Competitive Strengths & Weaknesses
Table 83. Advanced Micro Devices, Inc. Basic Information, Manufacturing Base and Competitors
Table 84. Advanced Micro Devices, Inc. Major Business
Table 85. Advanced Micro Devices, Inc. CPU Instruction Set Architecture (ISA) Product and Services
Table 86. Advanced Micro Devices, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 87. Advanced Micro Devices, Inc. Recent Developments/Updates
Table 88. Advanced Micro Devices, Inc. Competitive Strengths & Weaknesses
Table 89. Codasip Basic Information, Manufacturing Base and Competitors
Table 90. Codasip Major Business
Table 91. Codasip CPU Instruction Set Architecture (ISA) Product and Services
Table 92. Codasip CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 93. Codasip Recent Developments/Updates
Table 94. Codasip Competitive Strengths & Weaknesses
Table 95. GlobalFoundries Inc. Basic Information, Manufacturing Base and Competitors
Table 96. GlobalFoundries Inc. Major Business
Table 97. GlobalFoundries Inc. CPU Instruction Set Architecture (ISA) Product and Services
Table 98. GlobalFoundries Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross

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Margin and Market Share (2021-2026) & (USD Million)
Table 99. GlobalFoundries Inc. Recent Developments/Updates
Table 100. GlobalFoundries Inc. Competitive Strengths & Weaknesses
Table 101. Nuclei System Technology Basic Information, Manufacturing Base and Competitors
Table 102. Nuclei System Technology Major Business
Table 103. Nuclei System Technology CPU Instruction Set Architecture (ISA) Product and Services
Table 104. Nuclei System Technology CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. Nuclei System Technology Recent Developments/Updates
Table 106. Nuclei System Technology Competitive Strengths & Weaknesses
Table 107. Arm China Basic Information, Manufacturing Base and Competitors
Table 108. Arm China Major Business
Table 109. Arm China CPU Instruction Set Architecture (ISA) Product and Services
Table 110. Arm China CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Arm China Recent Developments/Updates
Table 112. Arm China Competitive Strengths & Weaknesses
Table 113. IBM Corporation Basic Information, Manufacturing Base and Competitors
Table 114. IBM Corporation Major Business
Table 115. IBM Corporation CPU Instruction Set Architecture (ISA) Product and Services
Table 116. IBM Corporation CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. IBM Corporation Recent Developments/Updates
Table 118. IBM Corporation Competitive Strengths & Weaknesses
Table 119. Loongson Technology Corporation Limited Basic Information, Manufacturing Base and Competitors
Table 120. Loongson Technology Corporation Limited Major Business
Table 121. Loongson Technology Corporation Limited CPU Instruction Set Architecture (ISA) Product and Services
Table 122. Loongson Technology Corporation Limited CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. Loongson Technology Corporation Limited Recent Developments/Updates
Table 124. Loongson Technology Corporation Limited Competitive Strengths & Weaknesses
Table 125. Ventana Micro Systems Basic Information, Manufacturing Base and Competitors

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Table 126. Ventana Micro Systems Major Business
Table 127. Ventana Micro Systems CPU Instruction Set Architecture (ISA) Product and Services
Table 128. Ventana Micro Systems CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 129. Ventana Micro Systems Recent Developments/Updates
Table 130. Ventana Micro Systems Competitive Strengths & Weaknesses
Table 131. CEVA, Inc. Basic Information, Manufacturing Base and Competitors
Table 132. CEVA, Inc. Major Business
Table 133. CEVA, Inc. CPU Instruction Set Architecture (ISA) Product and Services
Table 134. CEVA, Inc. CPU Instruction Set Architecture (ISA) Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 135. CEVA, Inc. Recent Developments/Updates
Table 136. CEVA, Inc. Competitive Strengths & Weaknesses
Table 137. Global Key Players of CPU Instruction Set Architecture (ISA) Upstream (Raw Materials)
Table 138. Global CPU Instruction Set Architecture (ISA) Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. CPU Instruction Set Architecture (ISA) Picture
Figure 2. World CPU Instruction Set Architecture (ISA) Total Revenue: 2021 & 2025 & 2032, (USD Million)
Figure 3. World CPU Instruction Set Architecture (ISA) Total Revenue (2021-2032) & (USD Million)
Figure 4. World CPU Instruction Set Architecture (ISA) Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Figure 5. World CPU Instruction Set Architecture (ISA) Revenue Market Share by Region (2021-2032), (by Headquarter Location)
Figure 6. United States Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032) & (USD Million)
Figure 7. China Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032) & (USD Million)
Figure 8. Europe Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032) & (USD Million)
Figure 9. Japan Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032) & (USD Million)
Figure 10. South Korea Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032) & (USD Million)
Figure 11. ASEAN Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032) & (USD Million)
Figure 12. India Based Company CPU Instruction Set Architecture (ISA) Revenue (2021-2032) & (USD Million)
Figure 13. CPU Instruction Set Architecture (ISA) Market Drivers
Figure 14. Factors Affecting Demand
Figure 15. World CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032) & (USD Million)
Figure 16. World CPU Instruction Set Architecture (ISA) Consumption Value Market Share by Region (2021-2032)
Figure 17. United States CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032) & (USD Million)
Figure 18. China CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032) & (USD Million)
Figure 19. Europe CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032) & (USD Million)

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Figure 20. Japan CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032) & (USD Million)
Figure 21. South Korea CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032) & (USD Million)
Figure 22. ASEAN CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032) & (USD Million)
Figure 23. India CPU Instruction Set Architecture (ISA) Consumption Value (2021-2032) & (USD Million)
Figure 24. Producer Shipments of CPU Instruction Set Architecture (ISA) by Player Revenue ($MM) and Market Share (%): 2025
Figure 25. Global Four-firm Concentration Ratios (CR4) for CPU Instruction Set Architecture (ISA) Markets in 2025
Figure 26. Global Four-firm Concentration Ratios (CR8) for CPU Instruction Set Architecture (ISA) Markets in 2025
Figure 27. United States VS China: CPU Instruction Set Architecture (ISA) Revenue Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: CPU Instruction Set Architecture (ISA) Consumption Value Market Share Comparison (2021 & 2025 & 2032)
Figure 29. World CPU Instruction Set Architecture (ISA) Market Size by Architecture Family, (USD Million), 2021 & 2025 & 2032
Figure 30. World CPU Instruction Set Architecture (ISA) Market Size Market Share by Architecture Family in 2025
Figure 31. Arm Architecture
Figure 32. x86 Architecture
Figure 33. RISC-V Architecture
Figure 34. Power Architecture
Figure 35. World CPU Instruction Set Architecture (ISA) Market Size Market Share by Architecture Family (2021-2032)
Figure 36. World CPU Instruction Set Architecture (ISA) Market Size by Business Model, (USD Million), 2021 & 2025 & 2032
Figure 37. World CPU Instruction Set Architecture (ISA) Market Size Market Share by Business Model in 2025
Figure 38. Architecture Licensing
Figure 39. Processor Core IP Licensing
Figure 40. Royalty-based Licensing
Figure 41. Open Standard Governance
Figure 42. World CPU Instruction Set Architecture (ISA) Market Size Market Share by Business Model (2021-2032)
Figure 43. World CPU Instruction Set Architecture (ISA) Market Size by Processor

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Class, (USD Million), 2021 & 2025 & 2032
Figure 44. World CPU Instruction Set Architecture (ISA) Market Size Market Share by Processor Class in 2025
Figure 45. Application Processor IP
Figure 46. Microcontroller Processor IP
Figure 47. Real-time Processor IP
Figure 48. DSP-like / Signal Processor IP
Figure 49. High-performance / Server-class IP
Figure 50. World CPU Instruction Set Architecture (ISA) Market Size Market Share by Processor Class (2021-2032)
Figure 51. World CPU Instruction Set Architecture (ISA) Market Size by Application, (USD Million), 2021 & 2025 & 2032
Figure 52. World CPU Instruction Set Architecture (ISA) Market Size Market Share by Application in 2025
Figure 53. Mobile and Consumer SoCs
Figure 54. Automotive Electronics
Figure 55. IoT and Embedded Control
Figure 56. Data Center and Cloud
Figure 57. World CPU Instruction Set Architecture (ISA) Market Size Market Share by Application (2021-2032)
Figure 58. CPU Instruction Set Architecture (ISA) Industrial Chain
Figure 59. Methodology
Figure 60. Research Process and Data Source

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