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Global x86 Architecture Server Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global x86 Architecture Server Chip market size is expected to reach $ 36705 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

x86 Architecture Server Chip are server-class central processing units based on the x86 or x86-64 instruction set architecture and used in cloud computing, enterprise data centers, AI server host platforms, high-performance computing, edge servers, network infrastructure, and government or enterprise IT systems. This market focuses on processor devices and attributable CPU revenue for server platforms, covering products with multi-core CPU complexes, cache hierarchies, memory controllers, PCIe/CXL I/O, virtualization, security, RAS, and instruction-set extension capabilities. The primary product forms include global merchant x86 server CPUs, high-core-count cloud processors, network and edge server CPUs, and regional x86-compatible server processors used in China’s domestic computing ecosystem. These processors serve as the general-purpose compute foundation for operating systems, hypervisors, databases, storage, networking, cloud-native workloads, and host-side orchestration in accelerator-based AI servers.

Key Findings

The supplier base remains highly concentrated

Cloud and enterprise servers anchor demand

AI servers reshape host CPU requirements

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China forms a regional x86 supply base

Arm and custom CPUs create substitution pressure

Market Trends

x86 Architecture Server Chip market is shifting from conventional CPU scaling toward platform-level competition. Core count, power efficiency, memory bandwidth, PCIe/CXL connectivity, secure virtualization, and AI-related instruction support are becoming more important than raw frequency alone. AI infrastructure does not remove the need for x86 CPUs; instead, it changes their role toward host-side orchestration, data movement, storage and network control, virtualization, and system management. At the same time, cloud customers and enterprise users are increasingly evaluating total platform efficiency, software compatibility, and workload consolidation, creating demand for both high-performance processors and higher-density, energy-efficient server CPUs.

Market Dynamics

Drivers

Demand is supported by cloud infrastructure expansion, enterprise server refresh cycles, database and virtualization workloads, AI server host-side computing, and the continued need for mature x86 software compatibility. In China, domestic computing infrastructure and government or enterprise procurement add another layer of demand for regional x86-compatible suppliers.

Restraints

Growth is restrained by the diversion of data center capital expenditure toward GPUs and AI accelerators, rising CPU design and manufacturing costs, limited entry opportunities caused by x86 licensing and ecosystem barriers, and increasing pressure from Arm-based and custom cloud CPUs. Supply constraints, advanced-node capacity allocation, and platform transition costs can also affect shipment timing and pricing.

Opportunities

The main opportunities are in AI server host CPUs, high-core-count cloud platforms, CXL-enabled memory expansion, secure virtualization, edge and network servers, and China’s domestic x86 ecosystem. As AI infrastructure becomes more heterogeneous,

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CPUs with stronger I/O, memory, security, and orchestration capabilities can capture value even when accelerators dominate raw compute spending.

Challenges

The industry faces long-term challenges from Arm server CPUs, hyperscaler custom processors, RISC-V development, accelerator-led data center architecture, and the need to maintain x86 software consistency across increasingly different product roadmaps. Vendors must balance performance, power, platform longevity, ecosystem compatibility, and supply assurance while avoiding overdependence on a single workload cycle.

Industry Chain Analysis

The upstream chain includes CPU IP, EDA tools, advanced logic process technology, chiplet interconnect, advanced packaging, substrates, test equipment, server memory, firmware, BIOS/BMC support, and operating-system enablement. For leading x86 server CPUs, value creation is concentrated in microarchitecture, chiplet design, cache and memory architecture, I/O integration, security functions, process access, and platform validation. Manufacturing models differ sharply: some vendors retain internal manufacturing and packaging capabilities, while others rely on foundry and outsourced assembly ecosystems.

The midstream consists of x86 server processor suppliers, server platform reference designs, motherboard vendors, BIOS and firmware partners, and OEM/ODM server manufacturers. Downstream demand comes from cloud service providers, hyperscalers, enterprise data centers, telecom operators, public-sector IT, AI infrastructure operators, HPC centers, and system integrators. Value is captured not only through the processor itself but also through platform lifecycle, software optimization, workload certification, power efficiency, ecosystem lock-in, and long-term support.

Segment Insights

By supplier type, global merchant vendors account for the overwhelming majority of revenue and deployment, while China domestic x86 vendors form a smaller but strategically important regional segment. By application, cloud and enterprise servers remain the largest base, while AI server host CPUs are becoming an increasingly important high-value use case. The AI server segment does not necessarily create proportionate CPU revenue growth, because accelerators take the largest share of system value, but it raises CPU requirements for I/O, memory bandwidth, orchestration,

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and reliability.

By product positioning, high-core-count cloud processors and high-performance data center CPUs represent the most competitive areas. Edge and network server CPUs remain important for telecom and distributed infrastructure, while domestic x86 server CPUs are shaped by regional procurement, ecosystem compatibility, and supply-chain security. The largest structural opportunity lies in platforms that combine mature x86 software compatibility with stronger heterogeneous computing support.

Downstream Market Opportunities

The downstream opportunity is strongest in cloud refresh cycles, AI infrastructure host platforms, enterprise workload consolidation, secure private cloud, telecom edge servers, and China's domestic computing infrastructure. Customers are no longer evaluating CPUs only by peak performance; they increasingly consider energy efficiency, socket consolidation, platform life, software certification, memory and I/O scalability, and compatibility with accelerators. This favors suppliers that can deliver stable roadmaps and deep ecosystem support.

Regional Insights

North America is the core supply region because the two leading global x86 server processor vendors are headquartered there and have deep relationships with cloud, enterprise, and server OEM ecosystems. China is the only region with a meaningful domestic x86-compatible server processor supply base, driven by government, enterprise, cloud, and domestic computing requirements. Europe, Japan, South Korea, Taiwan, and Southeast Asia remain important in demand, server manufacturing, memory, components, and data center deployment, but they do not currently represent core x86 server CPU supply regions.

Competitive Landscape Analysis

The competitive landscape is structurally concentrated. Intel and AMD dominate the global market through Xeon and EPYC platforms, competing across performance, core density, energy efficiency, I/O, software ecosystem, and cloud deployment. Hygon and Zhaoxin represent China's regional x86-compatible supply structure and compete mainly through domestic ecosystem fit, policy-driven procurement, supply security, and local platform adaptation. The broader competitive pressure comes not from new x86 entrants but from non-x86 architectures, cloud-provider custom CPUs, and accelerator-heavy data center designs. As a result, future competition will center on platform-level

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value rather than simple CPU benchmark leadership.

Report Scope

This report studies the global x86 Architecture Server Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for x86 Architecture Server 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 x86 Architecture Server Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global x86 Architecture Server Chip total production and demand, 2021-2032, (Million Units)

Global x86 Architecture Server Chip total production value, 2021-2032, (USD Million)

Global x86 Architecture Server Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global x86 Architecture Server Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: x86 Architecture Server Chip domestic production, consumption, key domestic manufacturers and share

Global x86 Architecture Server Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global x86 Architecture Server Chip production by Product Positioning, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global x86 Architecture Server Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

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This report profiles key players in the global x86 Architecture Server 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 Intel Corporation, Advanced Micro Devices, Inc., Hygon Information Technology Co., Ltd., Shanghai Zhaoxin Integrated Circuit Co., Ltd., 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 x86 Architecture Server Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Units) and average price (US$/Unit) by manufacturer, by Product Positioning, 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 x86 Architecture Server Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global x86 Architecture Server Chip Market, Segmentation by Product Positioning:

High-performance Data Center CPUs

High-core-count Cloud CPUs

Edge and Network Server CPUs

Global x86 Architecture Server Chip Market, Segmentation by Core Count Class:

Less than 32 Cores

32–96 Cores

96–192 Cores

Global x86 Architecture Server Chip Market, Segmentation by Server Platform Configuration:

Single-socket Platforms

Dual-socket Platforms

Four-socket and Above Platforms

Global x86 Architecture Server Chip Market, Segmentation by Application:

Cloud and Hyperscale Data Centers

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AI Server Host CPUs

Supercomputing

Companies Profiled:

Intel Corporation

Advanced Micro Devices, Inc.

Hygon Information Technology Co., Ltd.

Shanghai Zhaoxin Integrated Circuit Co., Ltd.

Key Questions Answered:

1. How big is the global x86 Architecture Server Chip market?
2. What is the demand of the global x86 Architecture Server Chip market?
3. What is the year over year growth of the global x86 Architecture Server Chip market?
4. What is the production and production value of the global x86 Architecture Server Chip market?
5. Who are the key producers in the global x86 Architecture Server Chip market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY
1.1 x86 Architecture Server Chip Introduction
1.2 World x86 Architecture Server Chip Supply & Forecast
  1.2.1 World x86 Architecture Server Chip Production Value (2021 & 2025 & 2032)
  1.2.2 World x86 Architecture Server Chip Production (2021-2032)
  1.2.3 World x86 Architecture Server Chip Pricing Trends (2021-2032)
1.3 World x86 Architecture Server Chip Production by Region (Based on Production Site)
  1.3.1 World x86 Architecture Server Chip Production Value by Region (2021-2032)
  1.3.2 World x86 Architecture Server Chip Production by Region (2021-2032)
  1.3.3 World x86 Architecture Server Chip Average Price by Region (2021-2032)
  1.3.4 North America x86 Architecture Server Chip Production (2021-2032)
  1.3.5 Europe x86 Architecture Server Chip Production (2021-2032)
  1.3.6 China x86 Architecture Server Chip Production (2021-2032)
  1.3.7 Japan x86 Architecture Server Chip Production (2021-2032)
  1.3.8 South Korea x86 Architecture Server Chip Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 x86 Architecture Server Chip Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 x86 Architecture Server Chip Major Market Trends

2 DEMAND SUMMARY
2.1 World x86 Architecture Server Chip Demand (2021-2032)
2.2 World x86 Architecture Server Chip Consumption by Region
  2.2.1 World x86 Architecture Server Chip Consumption by Region (2021-2026)
  2.2.2 World x86 Architecture Server Chip Consumption Forecast by Region (2027-2032)
2.3 United States x86 Architecture Server Chip Consumption (2021-2032)
2.4 China x86 Architecture Server Chip Consumption (2021-2032)
2.5 Europe x86 Architecture Server Chip Consumption (2021-2032)
2.6 Japan x86 Architecture Server Chip Consumption (2021-2032)
2.7 South Korea x86 Architecture Server Chip Consumption (2021-2032)
2.8 ASEAN x86 Architecture Server Chip Consumption (2021-2032)
2.9 India x86 Architecture Server Chip Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS
3.1 World x86 Architecture Server Chip Production Value by Manufacturer (2021-2026)

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3.2 World x86 Architecture Server Chip Production by Manufacturer (2021-2026)
3.3 World x86 Architecture Server Chip Average Price by Manufacturer (2021-2026)
3.4 x86 Architecture Server Chip Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global x86 Architecture Server Chip Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for x86 Architecture Server Chip in 2025
  3.5.3 Global Concentration Ratios (CR8) for x86 Architecture Server Chip in 2025
3.6 x86 Architecture Server Chip Market: Overall Company Footprint Analysis
  3.6.1 x86 Architecture Server Chip Market: Region Footprint
  3.6.2 x86 Architecture Server Chip Market: Company Product Type Footprint
  3.6.3 x86 Architecture Server Chip Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD
4.1 United States VS China: x86 Architecture Server Chip Production Value Comparison
  4.1.1 United States VS China: x86 Architecture Server Chip Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: x86 Architecture Server Chip Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: x86 Architecture Server Chip Production Comparison
  4.2.1 United States VS China: x86 Architecture Server Chip Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: x86 Architecture Server Chip Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: x86 Architecture Server Chip Consumption Comparison
  4.3.1 United States VS China: x86 Architecture Server Chip Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: x86 Architecture Server Chip Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based x86 Architecture Server Chip Manufacturers and Market Share, 2021-2026
  4.4.1 United States Based x86 Architecture Server Chip Manufacturers, Headquarters and Production Site (States, Country)

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4.4.2 United States Based Manufacturers x86 Architecture Server Chip Production Value (2021-2026)
4.4.3 United States Based Manufacturers x86 Architecture Server Chip Production (2021-2026)
4.5 China Based x86 Architecture Server Chip Manufacturers and Market Share
4.5.1 China Based x86 Architecture Server Chip Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers x86 Architecture Server Chip Production Value (2021-2026)
4.5.3 China Based Manufacturers x86 Architecture Server Chip Production (2021-2026)
4.6 Rest of World Based x86 Architecture Server Chip Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based x86 Architecture Server Chip Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers x86 Architecture Server Chip Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers x86 Architecture Server Chip Production (2021-2026)

5 MARKET ANALYSIS BY PRODUCT POSITIONING
5.1 World x86 Architecture Server Chip Market Size Overview by Product Positioning: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Product Positioning
5.2.1 High-performance Data Center CPUs
5.2.2 High-core-count Cloud CPUs
5.2.3 Edge and Network Server CPUs
5.3 Market Segment by Product Positioning
5.3.1 World x86 Architecture Server Chip Production by Product Positioning (2021-2032)
5.3.2 World x86 Architecture Server Chip Production Value by Product Positioning (2021-2032)
5.3.3 World x86 Architecture Server Chip Average Price by Product Positioning (2021-2032)

6 MARKET ANALYSIS BY CORE COUNT CLASS
6.1 World x86 Architecture Server Chip Market Size Overview by Core Count Class: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Core Count Class

+357 96 030922
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6.2.1 Less than 32 Cores
6.2.2 32–96 Cores
6.2.3 96–192 Cores
6.3 Market Segment by Core Count Class
6.3.1 World x86 Architecture Server Chip Production by Core Count Class (2021-2032)
6.3.2 World x86 Architecture Server Chip Production Value by Core Count Class (2021-2032)
6.3.3 World x86 Architecture Server Chip Average Price by Core Count Class (2021-2032)

7 MARKET ANALYSIS BY SERVER PLATFORM CONFIGURATION
7.1 World x86 Architecture Server Chip Market Size Overview by Server Platform Configuration: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Server Platform Configuration
7.2.1 Single-socket Platforms
7.2.2 Dual-socket Platforms
7.2.3 Four-socket and Above Platforms
7.3 Market Segment by Server Platform Configuration
7.3.1 World x86 Architecture Server Chip Production by Server Platform Configuration (2021-2032)
7.3.2 World x86 Architecture Server Chip Production Value by Server Platform Configuration (2021-2032)
7.3.3 World x86 Architecture Server Chip Average Price by Server Platform Configuration (2021-2032)

8 MARKET ANALYSIS BY APPLICATION
8.1 World x86 Architecture Server Chip Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Cloud and Hyperscale Data Centers
8.2.2 AI Server Host CPUs
8.2.3 Supercomputing
8.3 Market Segment by Application
8.3.1 World x86 Architecture Server Chip Production by Application (2021-2032)
8.3.2 World x86 Architecture Server Chip Production Value by Application (2021-2032)
8.3.3 World x86 Architecture Server Chip Average Price by Application (2021-2032)

9 COMPANY PROFILES

+357 96 030922
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9.1 Intel Corporation
9.1.1 Intel Corporation Details
9.1.2 Intel Corporation Major Business
9.1.3 Intel Corporation x86 Architecture Server Chip Product and Services
9.1.4 Intel Corporation x86 Architecture Server Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Intel Corporation Recent Developments/Updates
9.1.6 Intel Corporation Competitive Strengths & Weaknesses
9.2 Advanced Micro Devices, Inc.
9.2.1 Advanced Micro Devices, Inc. Details
9.2.2 Advanced Micro Devices, Inc. Major Business
9.2.3 Advanced Micro Devices, Inc. x86 Architecture Server Chip Product and Services
9.2.4 Advanced Micro Devices, Inc. x86 Architecture Server Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Advanced Micro Devices, Inc. Recent Developments/Updates
9.2.6 Advanced Micro Devices, Inc. Competitive Strengths & Weaknesses
9.3 Hygon Information Technology Co., Ltd.
9.3.1 Hygon Information Technology Co., Ltd. Details
9.3.2 Hygon Information Technology Co., Ltd. Major Business
9.3.3 Hygon Information Technology Co., Ltd. x86 Architecture Server Chip Product and Services
9.3.4 Hygon Information Technology Co., Ltd. x86 Architecture Server Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Hygon Information Technology Co., Ltd. Recent Developments/Updates
9.3.6 Hygon Information Technology Co., Ltd. Competitive Strengths & Weaknesses
9.4 Shanghai Zhaoxin Integrated Circuit Co., Ltd.
9.4.1 Shanghai Zhaoxin Integrated Circuit Co., Ltd. Details
9.4.2 Shanghai Zhaoxin Integrated Circuit Co., Ltd. Major Business
9.4.3 Shanghai Zhaoxin Integrated Circuit Co., Ltd. x86 Architecture Server Chip Product and Services
9.4.4 Shanghai Zhaoxin Integrated Circuit Co., Ltd. x86 Architecture Server Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Shanghai Zhaoxin Integrated Circuit Co., Ltd. Recent Developments/Updates
9.4.6 Shanghai Zhaoxin Integrated Circuit Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 x86 Architecture Server Chip Industry Chain

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10.2 x86 Architecture Server Chip Upstream Analysis
10.2.1 x86 Architecture Server Chip Core Raw Materials
10.2.2 Main Manufacturers of x86 Architecture Server Chip Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 x86 Architecture Server Chip Production Mode
10.6 x86 Architecture Server Chip Procurement Model
10.7 x86 Architecture Server Chip Industry Sales Model and Sales Channels
10.7.1 x86 Architecture Server Chip Sales Model
10.7.2 x86 Architecture Server Chip Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX
12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World x86 Architecture Server Chip Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World x86 Architecture Server Chip Production Value by Region (2021-2026) & (USD Million)
Table 3. World x86 Architecture Server Chip Production Value by Region (2027-2032) & (USD Million)
Table 4. World x86 Architecture Server Chip Production Value Market Share by Region (2021-2026)
Table 5. World x86 Architecture Server Chip Production Value Market Share by Region (2027-2032)
Table 6. World x86 Architecture Server Chip Production by Region (2021-2026) & (Million Units)
Table 7. World x86 Architecture Server Chip Production by Region (2027-2032) & (Million Units)
Table 8. World x86 Architecture Server Chip Production Market Share by Region (2021-2026)
Table 9. World x86 Architecture Server Chip Production Market Share by Region (2027-2032)
Table 10. World x86 Architecture Server Chip Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World x86 Architecture Server Chip Average Price by Region (2027-2032) & (US$/Unit)
Table 12. x86 Architecture Server Chip Major Market Trends
Table 13. World x86 Architecture Server Chip Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)
Table 14. World x86 Architecture Server Chip Consumption by Region (2021-2026) & (Million Units)
Table 15. World x86 Architecture Server Chip Consumption Forecast by Region (2027-2032) & (Million Units)
Table 16. World x86 Architecture Server Chip Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key x86 Architecture Server Chip Producers in 2025
Table 18. World x86 Architecture Server Chip Production by Manufacturer (2021-2026) & (Million Units)

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Table 19. Production Market Share of Key x86 Architecture Server Chip Producers in 2025
Table 20. World x86 Architecture Server Chip Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global x86 Architecture Server Chip Company Evaluation Quadrant
Table 22. World x86 Architecture Server Chip Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and x86 Architecture Server Chip Production Site of Key Manufacturer
Table 24. x86 Architecture Server Chip Market: Company Product Type Footprint
Table 25. x86 Architecture Server Chip Market: Company Product Application Footprint
Table 26. x86 Architecture Server Chip Competitive Factors
Table 27. x86 Architecture Server Chip New Entrant and Capacity Expansion Plans
Table 28. x86 Architecture Server Chip Mergers & Acquisitions Activity
Table 29. United States VS China x86 Architecture Server Chip Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China x86 Architecture Server Chip Production Comparison, (2021 & 2025 & 2032) & (Million Units)
Table 31. United States VS China x86 Architecture Server Chip Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)
Table 32. United States Based x86 Architecture Server Chip Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers x86 Architecture Server Chip Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers x86 Architecture Server Chip Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers x86 Architecture Server Chip Production (2021-2026) & (Million Units)
Table 36. United States Based Manufacturers x86 Architecture Server Chip Production Market Share (2021-2026)
Table 37. China Based x86 Architecture Server Chip Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers x86 Architecture Server Chip Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers x86 Architecture Server Chip Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers x86 Architecture Server Chip Production, (2021-2026) & (Million Units)
Table 41. China Based Manufacturers x86 Architecture Server Chip Production Market

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Share (2021-2026)
Table 42. Rest of World Based x86 Architecture Server Chip Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers x86 Architecture Server Chip Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers x86 Architecture Server Chip Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers x86 Architecture Server Chip Production, (2021-2026) & (Million Units)
Table 46. Rest of World Based Manufacturers x86 Architecture Server Chip Production Market Share (2021-2026)
Table 47. World x86 Architecture Server Chip Production Value by Product Positioning, (USD Million), 2021 & 2025 & 2032
Table 48. World x86 Architecture Server Chip Production by Product Positioning (2021-2026) & (Million Units)
Table 49. World x86 Architecture Server Chip Production by Product Positioning (2027-2032) & (Million Units)
Table 50. World x86 Architecture Server Chip Production Value by Product Positioning (2021-2026) & (USD Million)
Table 51. World x86 Architecture Server Chip Production Value by Product Positioning (2027-2032) & (USD Million)
Table 52. World x86 Architecture Server Chip Average Price by Product Positioning (2021-2026) & (US$/Unit)
Table 53. World x86 Architecture Server Chip Average Price by Product Positioning (2027-2032) & (US$/Unit)
Table 54. World x86 Architecture Server Chip Production Value by Core Count Class, (USD Million), 2021 & 2025 & 2032
Table 55. World x86 Architecture Server Chip Production by Core Count Class (2021-2026) & (Million Units)
Table 56. World x86 Architecture Server Chip Production by Core Count Class (2027-2032) & (Million Units)
Table 57. World x86 Architecture Server Chip Production Value by Core Count Class (2021-2026) & (USD Million)
Table 58. World x86 Architecture Server Chip Production Value by Core Count Class (2027-2032) & (USD Million)
Table 59. World x86 Architecture Server Chip Average Price by Core Count Class (2021-2026) & (US$/Unit)
Table 60. World x86 Architecture Server Chip Average Price by Core Count Class (2027-2032) & (US$/Unit)

+357 96 030922
info@marketpublishers.com

Table 61. World x86 Architecture Server Chip Production Value by Server Platform Configuration, (USD Million), 2021 & 2025 & 2032
Table 62. World x86 Architecture Server Chip Production by Server Platform Configuration (2021-2026) & (Million Units)
Table 63. World x86 Architecture Server Chip Production by Server Platform Configuration (2027-2032) & (Million Units)
Table 64. World x86 Architecture Server Chip Production Value by Server Platform Configuration (2021-2026) & (USD Million)
Table 65. World x86 Architecture Server Chip Production Value by Server Platform Configuration (2027-2032) & (USD Million)
Table 66. World x86 Architecture Server Chip Average Price by Server Platform Configuration (2021-2026) & (US$/Unit)
Table 67. World x86 Architecture Server Chip Average Price by Server Platform Configuration (2027-2032) & (US$/Unit)
Table 68. World x86 Architecture Server Chip Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World x86 Architecture Server Chip Production by Application (2021-2026) & (Million Units)
Table 70. World x86 Architecture Server Chip Production by Application (2027-2032) & (Million Units)
Table 71. World x86 Architecture Server Chip Production Value by Application (2021-2026) & (USD Million)
Table 72. World x86 Architecture Server Chip Production Value by Application (2027-2032) & (USD Million)
Table 73. World x86 Architecture Server Chip Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World x86 Architecture Server Chip Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Intel Corporation Basic Information, Manufacturing Base and Competitors
Table 76. Intel Corporation Major Business
Table 77. Intel Corporation x86 Architecture Server Chip Product and Services
Table 78. Intel Corporation x86 Architecture Server Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Intel Corporation Recent Developments/Updates
Table 80. Intel Corporation Competitive Strengths & Weaknesses
Table 81. Advanced Micro Devices, Inc. Basic Information, Manufacturing Base and Competitors
Table 82. Advanced Micro Devices, Inc. Major Business

+357 96 030922
info@marketpublishers.com

Table 83. Advanced Micro Devices, Inc. x86 Architecture Server Chip Product and Services
Table 84. Advanced Micro Devices, Inc. x86 Architecture Server Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Advanced Micro Devices, Inc. Recent Developments/Updates
Table 86. Advanced Micro Devices, Inc. Competitive Strengths & Weaknesses
Table 87. Hygon Information Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 88. Hygon Information Technology Co., Ltd. Major Business
Table 89. Hygon Information Technology Co., Ltd. x86 Architecture Server Chip Product and Services
Table 90. Hygon Information Technology Co., Ltd. x86 Architecture Server Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Hygon Information Technology Co., Ltd. Recent Developments/Updates
Table 92. Hygon Information Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 93. Shanghai Zhaoxin Integrated Circuit Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 94. Shanghai Zhaoxin Integrated Circuit Co., Ltd. Major Business
Table 95. Shanghai Zhaoxin Integrated Circuit Co., Ltd. x86 Architecture Server Chip Product and Services
Table 96. Shanghai Zhaoxin Integrated Circuit Co., Ltd. x86 Architecture Server Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Shanghai Zhaoxin Integrated Circuit Co., Ltd. Recent Developments/Updates
Table 98. Shanghai Zhaoxin Integrated Circuit Co., Ltd. Competitive Strengths & Weaknesses
Table 99. Global Key Players of x86 Architecture Server Chip Upstream (Raw Materials)
Table 100. Global x86 Architecture Server Chip Typical Customers
Table 101. x86 Architecture Server Chip Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. x86 Architecture Server Chip Picture
Figure 2. World x86 Architecture Server Chip Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World x86 Architecture Server Chip Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World x86 Architecture Server Chip Production (2021-2032) & (Million Units)
Figure 5. World x86 Architecture Server Chip Average Price (2021-2032) & (US$/Unit)
Figure 6. World x86 Architecture Server Chip Production Value Market Share by Region (2021-2032)
Figure 7. World x86 Architecture Server Chip Production Market Share by Region (2021-2032)
Figure 8. North America x86 Architecture Server Chip Production (2021-2032) & (Million Units)
Figure 9. Europe x86 Architecture Server Chip Production (2021-2032) & (Million Units)
Figure 10. China x86 Architecture Server Chip Production (2021-2032) & (Million Units)
Figure 11. Japan x86 Architecture Server Chip Production (2021-2032) & (Million Units)
Figure 12. South Korea x86 Architecture Server Chip Production (2021-2032) & (Million Units)
Figure 13. x86 Architecture Server Chip Market Drivers
Figure 14. Factors Affecting Demand
Figure 15. World x86 Architecture Server Chip Consumption (2021-2032) & (Million Units)
Figure 16. World x86 Architecture Server Chip Consumption Market Share by Region (2021-2032)
Figure 17. United States x86 Architecture Server Chip Consumption (2021-2032) & (Million Units)
Figure 18. China x86 Architecture Server Chip Consumption (2021-2032) & (Million Units)
Figure 19. Europe x86 Architecture Server Chip Consumption (2021-2032) & (Million Units)
Figure 20. Japan x86 Architecture Server Chip Consumption (2021-2032) & (Million Units)
Figure 21. South Korea x86 Architecture Server Chip Consumption (2021-2032) & (Million Units)
Figure 22. ASEAN x86 Architecture Server Chip Consumption (2021-2032) & (Million

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Units)
Figure 23. India x86 Architecture Server Chip Consumption (2021-2032) & (Million Units)
Figure 24. Producer Shipments of x86 Architecture Server Chip by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 25. Global Four-firm Concentration Ratios (CR4) for x86 Architecture Server Chip Markets in 2025
Figure 26. Global Four-firm Concentration Ratios (CR8) for x86 Architecture Server Chip Markets in 2025
Figure 27. United States VS China: x86 Architecture Server Chip Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: x86 Architecture Server Chip Production Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States VS China: x86 Architecture Server Chip Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 30. United States Based Manufacturers x86 Architecture Server Chip Production Market Share 2025
Figure 31. China Based Manufacturers x86 Architecture Server Chip Production Market Share 2025
Figure 32. Rest of World Based Manufacturers x86 Architecture Server Chip Production Market Share 2025
Figure 33. World x86 Architecture Server Chip Production Value by Product Positioning, (USD Million), 2021 & 2025 & 2032
Figure 34. World x86 Architecture Server Chip Production Value Market Share by Product Positioning in 2025
Figure 35. High-performance Data Center CPUs
Figure 36. High-core-count Cloud CPUs
Figure 37. Edge and Network Server CPUs
Figure 38. World x86 Architecture Server Chip Production Market Share by Product Positioning (2021-2032)
Figure 39. World x86 Architecture Server Chip Production Value Market Share by Product Positioning (2021-2032)
Figure 40. World x86 Architecture Server Chip Average Price by Product Positioning (2021-2032) & (US$/Unit)
Figure 41. World x86 Architecture Server Chip Production Value by Core Count Class, (USD Million), 2021 & 2025 & 2032
Figure 42. World x86 Architecture Server Chip Production Value Market Share by Core Count Class in 2025
Figure 43. Less than 32 Cores

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Figure 44. 32–96 Cores
Figure 45. 96–192 Cores
Figure 46. World x86 Architecture Server Chip Production Market Share by Core Count Class (2021-2032)
Figure 47. World x86 Architecture Server Chip Production Value Market Share by Core Count Class (2021-2032)
Figure 48. World x86 Architecture Server Chip Average Price by Core Count Class (2021-2032) & (US$/Unit)
Figure 49. World x86 Architecture Server Chip Production Value by Server Platform Configuration, (USD Million), 2021 & 2025 & 2032
Figure 50. World x86 Architecture Server Chip Production Value Market Share by Server Platform Configuration in 2025
Figure 51. Single-socket Platforms
Figure 52. Dual-socket Platforms
Figure 53. Four-socket and Above Platforms
Figure 54. World x86 Architecture Server Chip Production Market Share by Server Platform Configuration (2021-2032)
Figure 55. World x86 Architecture Server Chip Production Value Market Share by Server Platform Configuration (2021-2032)
Figure 56. World x86 Architecture Server Chip Average Price by Server Platform Configuration (2021-2032) & (US$/Unit)
Figure 57. World x86 Architecture Server Chip Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 58. World x86 Architecture Server Chip Production Value Market Share by Application in 2025
Figure 59. Cloud and Hyperscale Data Centers
Figure 60. AI Server Host CPUs
Figure 61. Supercomputing
Figure 62. World x86 Architecture Server Chip Production Market Share by Application (2021-2032)
Figure 63. World x86 Architecture Server Chip Production Value Market Share by Application (2021-2032)
Figure 64. World x86 Architecture Server Chip Average Price by Application (2021-2032) & (US$/Unit)
Figure 65. x86 Architecture Server Chip Industry Chain
Figure 66. x86 Architecture Server Chip Procurement Model
Figure 67. x86 Architecture Server Chip Sales Model
Figure 68. x86 Architecture Server Chip Sales Channels, Direct Sales, and Distribution
Figure 69. Methodology

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Figure 70. Research Process and Data Source

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