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Global AI Inference Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Inference Chip market size is expected to reach $ 86448 million by 2032, rising at a market growth of 16.5% CAGR during the forecast period (2026-2032).

AI inference chips are specialized integrated circuits designed specifically to execute the computational tasks of AI model inference. By optimizing neural network computing architectures, memory access patterns, and data processing workflows, they enable the highly efficient operation of pre-trained AI models in real-world application environments. These chips typically employ computing architectures such as GPUs, NPUs, ASICs, and FPGAs, featuring high parallel computing capabilities, low-latency response, high energy efficiency, and optimizations tailored to specific AI algorithms.

Key Findings

In 2025, global sales of AI inference chips are projected to reach approximately 40 million units, with a production capacity of around 57 million units; the average selling price is estimated at $600–$900 per unit, and the average gross margin at 45%–55%.

Data center AI Inference Chip represented the highest-value application segmentAverage selling price remained around several hundred US dollars per chipNorth America and Asia Pacific were the major regional demand marketsAI Inference Chip industry maintained relatively strong profitability characteristics

Market Trends

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The AI Inference Chip industry is evolving from traditional AI acceleration toward large-scale intelligent computing deployment. Increasing adoption of generative AI and large language models is shifting market demand from model training infrastructure toward high-efficiency inference processing. Chip development is moving toward higher computing efficiency, lower power consumption, heterogeneous architectures and optimized support for AI workloads. At the same time, AI inference is expanding from centralized cloud platforms into edge computing, autonomous vehicles, industrial equipment and consumer devices, creating demand for diversified chip solutions with different performance and power characteristics.

Market Dynamics

Drivers

The rapid commercialization of generative AI applications, enterprise AI platforms and intelligent services is driving demand for AI Inference Chip solutions. Large-scale deployment of AI models requires efficient inference processing capabilities, while cloud computing expansion, autonomous driving development and industrial digitalization continue to increase demand for dedicated AI computing hardware.

Restraints

AI Inference Chip development is constrained by high semiconductor manufacturing costs, advanced process requirements, supply limitations of key components and increasing complexity of hardware-software optimization. In addition, competition from general-purpose processors and continuous changes in AI model architectures create pressure on chip design flexibility and investment efficiency.

Opportunities

Growth opportunities are emerging from AI-enabled edge devices, autonomous systems, robotics, smart manufacturing and localized AI processing. The increasing demand for real-time and privacy-oriented AI computation is creating opportunities for low-power inference chips and application-specific solutions. The expansion of AI PC, intelligent vehicles and industrial AI platforms is expected to broaden the adoption scope of AI Inference Chip technologies.

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Challenges

The AI Inference Chip industry faces challenges related to rapid technology evolution, ecosystem establishment, software compatibility and market uncertainty. Companies need continuous investment in chip architecture, development tools, algorithm optimization and customer ecosystem building to maintain competitiveness as AI computing requirements continue to diversify.

Industry Chain Analysis

The AI Inference Chip industry chain covers semiconductor design, wafer manufacturing, advanced packaging, testing, system integration and downstream AI applications. The upstream segment provides semiconductor manufacturing processes, memory technologies, packaging materials and electronic components. The midstream sector focuses on chip architecture design, AI computing optimization, firmware development, software ecosystem adaptation and product validation. The downstream market includes cloud computing, intelligent vehicles, industrial automation, medical systems, security equipment and consumer electronics.The core value creation of AI Inference Chip is concentrated in semiconductor architecture innovation, computing efficiency optimization, software compatibility and application-specific customization. High-performance inference chips generally maintain stronger profitability due to technological barriers and specialized requirements, while cost competitiveness remains important for edge and terminal applications.

Segment Insights

AI Inference Chip products can be categorized into data center AI inference chips, edge AI inference chips, automotive AI inference chips and terminal AI inference chips. Data center AI Inference Chip currently represents the largest value segment, supported by large-scale AI model deployment and cloud-based inference services. GPU-based solutions maintain strong adoption due to mature software ecosystems and broad application compatibility, while NPU and ASIC architectures continue expanding in dedicated AI workloads requiring higher efficiency.Edge AI Inference Chip represents one of the fastest-growing directions as industries increasingly require real-time local processing. Low-power architecture, compact design and application-specific optimization are becoming important competitive factors in industrial equipment, robotics, automotive systems and intelligent devices.

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Downstream Market Opportunities

AI Inference Chip demand is widely distributed across cloud computing, automotive intelligence, industrial manufacturing, robotics, healthcare, security and consumer electronics. Data center applications currently contribute significant market value, while automotive AI computing and edge intelligence represent important expansion opportunities. Customers increasingly require chips with balanced computing capability, energy efficiency, reliability and software compatibility, creating opportunities for suppliers with strong application integration capabilities.

Regional Insights

North America and Asia Pacific represent the major regional markets for AI Inference Chip demand. North America benefits from advanced cloud infrastructure, artificial intelligence service development and high investment in AI computing capacity. Asia Pacific has become an important production and consumption region supported by semiconductor manufacturing capabilities, electronics supply chains and expanding AI application industries. Europe maintains demand in automotive intelligence, industrial automation and high-performance computing, with opportunities driven by digital transformation and intelligent manufacturing development.

Competitive Landscape Analysis

The AI Inference Chip market presents a technology-intensive competitive structure involving semiconductor companies, AI platform providers and system solution developers. Competition focuses on computing efficiency, power consumption optimization, software ecosystem maturity, manufacturing capability and application adaptation. Leading participants emphasize differentiated chip architectures and complete AI computing solutions, while companies targeting edge and terminal markets compete through cost efficiency, integration capability and specialized application support. As AI workloads expand across cloud, edge and device environments, ecosystem compatibility and scenario-based optimization are becoming increasingly important competitive factors.

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Report Scope

This report studies the global AI Inference Chip production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global AI Inference Chip total production and demand, 2021-2032, (Million Units)

Global AI Inference Chip total production value, 2021-2032, (USD Million)

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

Global AI Inference Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: AI Inference Chip domestic production, consumption, key domestic manufacturers and share

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

Global AI Inference Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global AI Inference 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 AI Inference 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 NVIDIA, AMD, Intel, Google, Amazon Web Services, Qualcomm, Groq, SambaNova, Cerebras Systems, Graphcore, 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 AI Inference 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 Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI Inference Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Market Segmentation

Global AI Inference Chip Market, Segmentation by Type:

GPU-based AI Inference Chip

NPU-based AI Inference Chip

ASIC-based AI Inference Chip

FPGA-based AI Inference Chip

Global AI Inference Chip Market, Segmentation by Deployment location:

Cloud AI Inference Chip

Edge AI Inference Chip

Global AI Inference Chip Market, Segmentation by Computing Power:

<10 TOPS

10–100 TOPS

>100 TOPS

Global AI Inference Chip Market, Segmentation by Application:

Data Centers and Cloud Computing

Autonomous Driving and Robotics

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Industrial IoT

Smart Devices and Consumer Electronics

Others

Companies Profiled:

NVIDIA

AMD

Intel

Google

Amazon Web Services

Qualcomm

Groq

SambaNova

Cerebras Systems

Graphcore

Huawei

Cambricon Technologies

Enflame Technology

Horizon Robotics

Black Sesame Technologies

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Alibaba Group

MediaTek

Renesas Electronics

Key Questions Answered

1. How big is the global AI Inference Chip market?
2. What is the demand of the global AI Inference Chip market?
3. What is the year over year growth of the global AI Inference Chip market?
4. What is the total value of the global AI Inference Chip market?
5. Who are the Major Players in the global AI Inference Chip market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World AI Inference Chip Production Value by Manufacturer (2021-2026)
3.2 World AI Inference Chip Production by Manufacturer (2021-2026)
3.3 World AI Inference Chip Average Price by Manufacturer (2021-2026)
3.4 AI Inference Chip Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global AI Inference Chip Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for AI Inference Chip in 2025
  3.5.3 Global Concentration Ratios (CR8) for AI Inference Chip in 2025
3.6 AI Inference Chip Market: Overall Company Footprint Analysis
  3.6.1 AI Inference Chip Market: Region Footprint
  3.6.2 AI Inference Chip Market: Company Product Type Footprint
  3.6.3 AI Inference 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: AI Inference Chip Production Value Comparison
  4.1.1 United States VS China: AI Inference Chip Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: AI Inference Chip Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: AI Inference Chip Production Comparison
  4.2.1 United States VS China: AI Inference Chip Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: AI Inference Chip Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: AI Inference Chip Consumption Comparison
  4.3.1 United States VS China: AI Inference Chip Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: AI Inference Chip Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based AI Inference Chip Manufacturers and Market Share,

+357 96 030922
info@marketpublishers.com

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

5 MARKET ANALYSIS BY TYPE

5.1 World AI Inference Chip Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 GPU-based AI Inference Chip
5.2.2 NPU-based AI Inference Chip
5.2.3 ASIC-based AI Inference Chip
5.2.4 FPGA-based AI Inference Chip
5.3 Market Segment by Type
5.3.1 World AI Inference Chip Production by Type (2021-2032)
5.3.2 World AI Inference Chip Production Value by Type (2021-2032)
5.3.3 World AI Inference Chip Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DEPLOYMENT LOCATION

6.1 World AI Inference Chip Market Size Overview by Deployment location: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Deployment location
6.2.1 Cloud AI Inference Chip
6.2.2 Edge AI Inference Chip

+357 96 030922
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6.3 Market Segment by Deployment location
6.3.1 World AI Inference Chip Production by Deployment location (2021-2032)
6.3.2 World AI Inference Chip Production Value by Deployment location (2021-2032)
6.3.3 World AI Inference Chip Average Price by Deployment location (2021-2032)

7 MARKET ANALYSIS BY COMPUTING POWER

7.1 World AI Inference Chip Market Size Overview by Computing Power: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Computing Power
7.2.1 <10 TOPS
7.2.2 10–100 TOPS
7.2.3 >100 TOPS
7.3 Market Segment by Computing Power
7.3.1 World AI Inference Chip Production by Computing Power (2021-2032)
7.3.2 World AI Inference Chip Production Value by Computing Power (2021-2032)
7.3.3 World AI Inference Chip Average Price by Computing Power (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World AI Inference Chip Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Data Centers and Cloud Computing
8.2.2 Autonomous Driving and Robotics
8.2.3 Industrial IoT
8.2.4 Smart Devices and Consumer Electronics
8.2.5 Others
8.3 Market Segment by Application
8.3.1 World AI Inference Chip Production by Application (2021-2032)
8.3.2 World AI Inference Chip Production Value by Application (2021-2032)
8.3.3 World AI Inference Chip Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 NVIDIA
9.1.1 NVIDIA Details
9.1.2 NVIDIA Major Business
9.1.3 NVIDIA AI Inference Chip Product and Services

+357 96 030922
info@marketpublishers.com

9.1.4 NVIDIA AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 NVIDIA Recent Developments/Updates
9.1.6 NVIDIA Competitive Strengths & Weaknesses
9.2 AMD
9.2.1 AMD Details
9.2.2 AMD Major Business
9.2.3 AMD AI Inference Chip Product and Services
9.2.4 AMD AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 AMD Recent Developments/Updates
9.2.6 AMD Competitive Strengths & Weaknesses
9.3 Intel
9.3.1 Intel Details
9.3.2 Intel Major Business
9.3.3 Intel AI Inference Chip Product and Services
9.3.4 Intel AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Intel Recent Developments/Updates
9.3.6 Intel Competitive Strengths & Weaknesses
9.4 Google
9.4.1 Google Details
9.4.2 Google Major Business
9.4.3 Google AI Inference Chip Product and Services
9.4.4 Google AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Google Recent Developments/Updates
9.4.6 Google Competitive Strengths & Weaknesses
9.5 Amazon Web Services
9.5.1 Amazon Web Services Details
9.5.2 Amazon Web Services Major Business
9.5.3 Amazon Web Services AI Inference Chip Product and Services
9.5.4 Amazon Web Services AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Amazon Web Services Recent Developments/Updates
9.5.6 Amazon Web Services Competitive Strengths & Weaknesses
9.6 Qualcomm
9.6.1 Qualcomm Details
9.6.2 Qualcomm Major Business

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9.6.3 Qualcomm AI Inference Chip Product and Services
9.6.4 Qualcomm AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Qualcomm Recent Developments/Updates
9.6.6 Qualcomm Competitive Strengths & Weaknesses
9.7 Groq
9.7.1 Groq Details
9.7.2 Groq Major Business
9.7.3 Groq AI Inference Chip Product and Services
9.7.4 Groq AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Groq Recent Developments/Updates
9.7.6 Groq Competitive Strengths & Weaknesses
9.8 SambaNova
9.8.1 SambaNova Details
9.8.2 SambaNova Major Business
9.8.3 SambaNova AI Inference Chip Product and Services
9.8.4 SambaNova AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 SambaNova Recent Developments/Updates
9.8.6 SambaNova Competitive Strengths & Weaknesses
9.9 Cerebras Systems
9.9.1 Cerebras Systems Details
9.9.2 Cerebras Systems Major Business
9.9.3 Cerebras Systems AI Inference Chip Product and Services
9.9.4 Cerebras Systems AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Cerebras Systems Recent Developments/Updates
9.9.6 Cerebras Systems Competitive Strengths & Weaknesses
9.10 Graphcore
9.10.1 Graphcore Details
9.10.2 Graphcore Major Business
9.10.3 Graphcore AI Inference Chip Product and Services
9.10.4 Graphcore AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 Graphcore Recent Developments/Updates
9.10.6 Graphcore Competitive Strengths & Weaknesses
9.11 Huawei
9.11.1 Huawei Details

+357 96 030922
info@marketpublishers.com

9.11.2 Huawei Major Business
9.11.3 Huawei AI Inference Chip Product and Services
9.11.4 Huawei AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 Huawei Recent Developments/Updates
9.11.6 Huawei Competitive Strengths & Weaknesses
9.12 Cambricon Technologies
9.12.1 Cambricon Technologies Details
9.12.2 Cambricon Technologies Major Business
9.12.3 Cambricon Technologies AI Inference Chip Product and Services
9.12.4 Cambricon Technologies AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Cambricon Technologies Recent Developments/Updates
9.12.6 Cambricon Technologies Competitive Strengths & Weaknesses
9.13 Enflame Technology
9.13.1 Enflame Technology Details
9.13.2 Enflame Technology Major Business
9.13.3 Enflame Technology AI Inference Chip Product and Services
9.13.4 Enflame Technology AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 Enflame Technology Recent Developments/Updates
9.13.6 Enflame Technology Competitive Strengths & Weaknesses
9.14 Horizon Robotics
9.14.1 Horizon Robotics Details
9.14.2 Horizon Robotics Major Business
9.14.3 Horizon Robotics AI Inference Chip Product and Services
9.14.4 Horizon Robotics AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 Horizon Robotics Recent Developments/Updates
9.14.6 Horizon Robotics Competitive Strengths & Weaknesses
9.15 Black Sesame Technologies
9.15.1 Black Sesame Technologies Details
9.15.2 Black Sesame Technologies Major Business
9.15.3 Black Sesame Technologies AI Inference Chip Product and Services
9.15.4 Black Sesame Technologies AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.15.5 Black Sesame Technologies Recent Developments/Updates
9.15.6 Black Sesame Technologies Competitive Strengths & Weaknesses
9.16 Alibaba Group

+357 96 030922
info@marketpublishers.com

9.16.1 Alibaba Group Details
9.16.2 Alibaba Group Major Business
9.16.3 Alibaba Group AI Inference Chip Product and Services
9.16.4 Alibaba Group AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.16.5 Alibaba Group Recent Developments/Updates
9.16.6 Alibaba Group Competitive Strengths & Weaknesses
9.17 MediaTek
9.17.1 MediaTek Details
9.17.2 MediaTek Major Business
9.17.3 MediaTek AI Inference Chip Product and Services
9.17.4 MediaTek AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.17.5 MediaTek Recent Developments/Updates
9.17.6 MediaTek Competitive Strengths & Weaknesses
9.18 Renesas Electronics
9.18.1 Renesas Electronics Details
9.18.2 Renesas Electronics Major Business
9.18.3 Renesas Electronics AI Inference Chip Product and Services
9.18.4 Renesas Electronics AI Inference Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.18.5 Renesas Electronics Recent Developments/Updates
9.18.6 Renesas Electronics Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

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

11 RESEARCH FINDINGS AND CONCLUSION

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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 AI Inference Chip Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World AI Inference Chip Production Value by Region (2021-2026) & (USD Million)
Table 3. World AI Inference Chip Production Value by Region (2027-2032) & (USD Million)
Table 4. World AI Inference Chip Production Value Market Share by Region (2021-2026)
Table 5. World AI Inference Chip Production Value Market Share by Region (2027-2032)
Table 6. World AI Inference Chip Production by Region (2021-2026) & (Million Units)
Table 7. World AI Inference Chip Production by Region (2027-2032) & (Million Units)
Table 8. World AI Inference Chip Production Market Share by Region (2021-2026)
Table 9. World AI Inference Chip Production Market Share by Region (2027-2032)
Table 10. World AI Inference Chip Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World AI Inference Chip Average Price by Region (2027-2032) & (US$/Unit)
Table 12. AI Inference Chip Major Market Trends
Table 13. World AI Inference Chip Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)
Table 14. World AI Inference Chip Consumption by Region (2021-2026) & (Million Units)
Table 15. World AI Inference Chip Consumption Forecast by Region (2027-2032) & (Million Units)
Table 16. World AI Inference Chip Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key AI Inference Chip Producers in 2025
Table 18. World AI Inference Chip Production by Manufacturer (2021-2026) & (Million Units)
Table 19. Production Market Share of Key AI Inference Chip Producers in 2025
Table 20. World AI Inference Chip Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global AI Inference Chip Company Evaluation Quadrant
Table 22. World AI Inference Chip Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and AI Inference Chip Production Site of Key Manufacturer

+357 96 030922
info@marketpublishers.com

Table 24. AI Inference Chip Market: Company Product Type Footprint
Table 25. AI Inference Chip Market: Company Product Application Footprint
Table 26. AI Inference Chip Competitive Factors
Table 27. AI Inference Chip New Entrant and Capacity Expansion Plans
Table 28. AI Inference Chip Mergers & Acquisitions Activity
Table 29. United States VS China AI Inference Chip Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China AI Inference Chip Production Comparison, (2021 & 2025 & 2032) & (Million Units)
Table 31. United States VS China AI Inference Chip Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)
Table 32. United States Based AI Inference Chip Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers AI Inference Chip Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers AI Inference Chip Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers AI Inference Chip Production (2021-2026) & (Million Units)
Table 36. United States Based Manufacturers AI Inference Chip Production Market Share (2021-2026)
Table 37. China Based AI Inference Chip Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers AI Inference Chip Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers AI Inference Chip Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers AI Inference Chip Production, (2021-2026) & (Million Units)
Table 41. China Based Manufacturers AI Inference Chip Production Market Share (2021-2026)
Table 42. Rest of World Based AI Inference Chip Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers AI Inference Chip Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers AI Inference Chip Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers AI Inference Chip Production, (2021-2026) & (Million Units)

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Table 46. Rest of World Based Manufacturers AI Inference Chip Production Market Share (2021-2026)
Table 47. World AI Inference Chip Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World AI Inference Chip Production by Type (2021-2026) & (Million Units)
Table 49. World AI Inference Chip Production by Type (2027-2032) & (Million Units)
Table 50. World AI Inference Chip Production Value by Type (2021-2026) & (USD Million)
Table 51. World AI Inference Chip Production Value by Type (2027-2032) & (USD Million)
Table 52. World AI Inference Chip Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World AI Inference Chip Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World AI Inference Chip Production Value by Deployment location, (USD Million), 2021 & 2025 & 2032
Table 55. World AI Inference Chip Production by Deployment location (2021-2026) & (Million Units)
Table 56. World AI Inference Chip Production by Deployment location (2027-2032) & (Million Units)
Table 57. World AI Inference Chip Production Value by Deployment location (2021-2026) & (USD Million)
Table 58. World AI Inference Chip Production Value by Deployment location (2027-2032) & (USD Million)
Table 59. World AI Inference Chip Average Price by Deployment location (2021-2026) & (US$/Unit)
Table 60. World AI Inference Chip Average Price by Deployment location (2027-2032) & (US$/Unit)
Table 61. World AI Inference Chip Production Value by Computing Power, (USD Million), 2021 & 2025 & 2032
Table 62. World AI Inference Chip Production by Computing Power (2021-2026) & (Million Units)
Table 63. World AI Inference Chip Production by Computing Power (2027-2032) & (Million Units)
Table 64. World AI Inference Chip Production Value by Computing Power (2021-2026) & (USD Million)
Table 65. World AI Inference Chip Production Value by Computing Power (2027-2032) & (USD Million)
Table 66. World AI Inference Chip Average Price by Computing Power (2021-2026) & (US$/Unit)
Table 67. World AI Inference Chip Average Price by Computing Power (2027-2032) &

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(US$/Unit)
Table 68. World AI Inference Chip Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World AI Inference Chip Production by Application (2021-2026) & (Million Units)
Table 70. World AI Inference Chip Production by Application (2027-2032) & (Million Units)
Table 71. World AI Inference Chip Production Value by Application (2021-2026) & (USD Million)
Table 72. World AI Inference Chip Production Value by Application (2027-2032) & (USD Million)
Table 73. World AI Inference Chip Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World AI Inference Chip Average Price by Application (2027-2032) & (US$/Unit)
Table 75. NVIDIA Basic Information, Manufacturing Base and Competitors
Table 76. NVIDIA Major Business
Table 77. NVIDIA AI Inference Chip Product and Services
Table 78. NVIDIA AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. NVIDIA Recent Developments/Updates
Table 80. NVIDIA Competitive Strengths & Weaknesses
Table 81. AMD Basic Information, Manufacturing Base and Competitors
Table 82. AMD Major Business
Table 83. AMD AI Inference Chip Product and Services
Table 84. AMD AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. AMD Recent Developments/Updates
Table 86. AMD Competitive Strengths & Weaknesses
Table 87. Intel Basic Information, Manufacturing Base and Competitors
Table 88. Intel Major Business
Table 89. Intel AI Inference Chip Product and Services
Table 90. Intel AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Intel Recent Developments/Updates
Table 92. Intel Competitive Strengths & Weaknesses
Table 93. Google Basic Information, Manufacturing Base and Competitors
Table 94. Google Major Business
Table 95. Google AI Inference Chip Product and Services

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Table 96. Google AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Google Recent Developments/Updates
Table 98. Google Competitive Strengths & Weaknesses
Table 99. Amazon Web Services Basic Information, Manufacturing Base and Competitors
Table 100. Amazon Web Services Major Business
Table 101. Amazon Web Services AI Inference Chip Product and Services
Table 102. Amazon Web Services AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Amazon Web Services Recent Developments/Updates
Table 104. Amazon Web Services Competitive Strengths & Weaknesses
Table 105. Qualcomm Basic Information, Manufacturing Base and Competitors
Table 106. Qualcomm Major Business
Table 107. Qualcomm AI Inference Chip Product and Services
Table 108. Qualcomm AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Qualcomm Recent Developments/Updates
Table 110. Qualcomm Competitive Strengths & Weaknesses
Table 111. Groq Basic Information, Manufacturing Base and Competitors
Table 112. Groq Major Business
Table 113. Groq AI Inference Chip Product and Services
Table 114. Groq AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Groq Recent Developments/Updates
Table 116. Groq Competitive Strengths & Weaknesses
Table 117. SambaNova Basic Information, Manufacturing Base and Competitors
Table 118. SambaNova Major Business
Table 119. SambaNova AI Inference Chip Product and Services
Table 120. SambaNova AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. SambaNova Recent Developments/Updates
Table 122. SambaNova Competitive Strengths & Weaknesses
Table 123. Cerebras Systems Basic Information, Manufacturing Base and Competitors
Table 124. Cerebras Systems Major Business
Table 125. Cerebras Systems AI Inference Chip Product and Services
Table 126. Cerebras Systems AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share

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(2021-2026)
Table 127. Cerebras Systems Recent Developments/Updates
Table 128. Cerebras Systems Competitive Strengths & Weaknesses
Table 129. Graphcore Basic Information, Manufacturing Base and Competitors
Table 130. Graphcore Major Business
Table 131. Graphcore AI Inference Chip Product and Services
Table 132. Graphcore AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Graphcore Recent Developments/Updates
Table 134. Graphcore Competitive Strengths & Weaknesses
Table 135. Huawei Basic Information, Manufacturing Base and Competitors
Table 136. Huawei Major Business
Table 137. Huawei AI Inference Chip Product and Services
Table 138. Huawei AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Huawei Recent Developments/Updates
Table 140. Huawei Competitive Strengths & Weaknesses
Table 141. Cambricon Technologies Basic Information, Manufacturing Base and Competitors
Table 142. Cambricon Technologies Major Business
Table 143. Cambricon Technologies AI Inference Chip Product and Services
Table 144. Cambricon Technologies AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Cambricon Technologies Recent Developments/Updates
Table 146. Cambricon Technologies Competitive Strengths & Weaknesses
Table 147. Enflame Technology Basic Information, Manufacturing Base and Competitors
Table 148. Enflame Technology Major Business
Table 149. Enflame Technology AI Inference Chip Product and Services
Table 150. Enflame Technology AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Enflame Technology Recent Developments/Updates
Table 152. Enflame Technology Competitive Strengths & Weaknesses
Table 153. Horizon Robotics Basic Information, Manufacturing Base and Competitors
Table 154. Horizon Robotics Major Business
Table 155. Horizon Robotics AI Inference Chip Product and Services
Table 156. Horizon Robotics AI Inference Chip Production (Million Units), Price

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(US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Horizon Robotics Recent Developments/Updates
Table 158. Horizon Robotics Competitive Strengths & Weaknesses
Table 159. Black Sesame Technologies Basic Information, Manufacturing Base and Competitors
Table 160. Black Sesame Technologies Major Business
Table 161. Black Sesame Technologies AI Inference Chip Product and Services
Table 162. Black Sesame Technologies AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Black Sesame Technologies Recent Developments/Updates
Table 164. Black Sesame Technologies Competitive Strengths & Weaknesses
Table 165. Alibaba Group Basic Information, Manufacturing Base and Competitors
Table 166. Alibaba Group Major Business
Table 167. Alibaba Group AI Inference Chip Product and Services
Table 168. Alibaba Group AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Alibaba Group Recent Developments/Updates
Table 170. Alibaba Group Competitive Strengths & Weaknesses
Table 171. MediaTek Basic Information, Manufacturing Base and Competitors
Table 172. MediaTek Major Business
Table 173. MediaTek AI Inference Chip Product and Services
Table 174. MediaTek AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. MediaTek Recent Developments/Updates
Table 176. MediaTek Competitive Strengths & Weaknesses
Table 177. Renesas Electronics Basic Information, Manufacturing Base and Competitors
Table 178. Renesas Electronics Major Business
Table 179. Renesas Electronics AI Inference Chip Product and Services
Table 180. Renesas Electronics AI Inference Chip Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Renesas Electronics Recent Developments/Updates
Table 182. Renesas Electronics Competitive Strengths & Weaknesses
Table 183. Global Key Players of AI Inference Chip Upstream (Raw Materials)
Table 184. Global AI Inference Chip Typical Customers
Table 185. AI Inference Chip Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. AI Inference Chip Picture
Figure 2. World AI Inference Chip Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World AI Inference Chip Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World AI Inference Chip Production (2021-2032) & (Million Units)
Figure 5. World AI Inference Chip Average Price (2021-2032) & (US$/Unit)
Figure 6. World AI Inference Chip Production Value Market Share by Region (2021-2032)
Figure 7. World AI Inference Chip Production Market Share by Region (2021-2032)
Figure 8. North America AI Inference Chip Production (2021-2032) & (Million Units)
Figure 9. Europe AI Inference Chip Production (2021-2032) & (Million Units)
Figure 10. China AI Inference Chip Production (2021-2032) & (Million Units)
Figure 11. Japan AI Inference Chip Production (2021-2032) & (Million Units)
Figure 12. South Korea AI Inference Chip Production (2021-2032) & (Million Units)
Figure 13. Southeast Asia AI Inference Chip Production (2021-2032) & (Million Units)
Figure 14. China Taiwan AI Inference Chip Production (2021-2032) & (Million Units)
Figure 15. AI Inference Chip Market Drivers
Figure 16. Factors Affecting Demand
Figure 17. World AI Inference Chip Consumption (2021-2032) & (Million Units)
Figure 18. World AI Inference Chip Consumption Market Share by Region (2021-2032)
Figure 19. United States AI Inference Chip Consumption (2021-2032) & (Million Units)
Figure 20. China AI Inference Chip Consumption (2021-2032) & (Million Units)
Figure 21. Europe AI Inference Chip Consumption (2021-2032) & (Million Units)
Figure 22. Japan AI Inference Chip Consumption (2021-2032) & (Million Units)
Figure 23. South Korea AI Inference Chip Consumption (2021-2032) & (Million Units)
Figure 24. ASEAN AI Inference Chip Consumption (2021-2032) & (Million Units)
Figure 25. India AI Inference Chip Consumption (2021-2032) & (Million Units)
Figure 26. Producer Shipments of AI Inference Chip by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 27. Global Four-firm Concentration Ratios (CR4) for AI Inference Chip Markets in 2025
Figure 28. Global Four-firm Concentration Ratios (CR8) for AI Inference Chip Markets in 2025
Figure 29. United States VS China: AI Inference Chip Production Value Market Share Comparison (2021 & 2025 & 2032)

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Figure 30. United States VS China: AI Inference Chip Production Market Share Comparison (2021 & 2025 & 2032)
Figure 31. United States VS China: AI Inference Chip Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 32. United States Based Manufacturers AI Inference Chip Production Market Share 2025
Figure 33. China Based Manufacturers AI Inference Chip Production Market Share 2025
Figure 34. Rest of World Based Manufacturers AI Inference Chip Production Market Share 2025
Figure 35. World AI Inference Chip Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 36. World AI Inference Chip Production Value Market Share by Type in 2025
Figure 37. GPU-based AI Inference Chip
Figure 38. NPU-based AI Inference Chip
Figure 39. ASIC-based AI Inference Chip
Figure 40. FPGA-based AI Inference Chip
Figure 41. World AI Inference Chip Production Market Share by Type (2021-2032)
Figure 42. World AI Inference Chip Production Value Market Share by Type (2021-2032)
Figure 43. World AI Inference Chip Average Price by Type (2021-2032) & (US$/Unit)
Figure 44. World AI Inference Chip Production Value by Deployment location, (USD Million), 2021 & 2025 & 2032
Figure 45. World AI Inference Chip Production Value Market Share by Deployment location in 2025
Figure 46. Cloud AI Inference Chip
Figure 47. Edge AI Inference Chip
Figure 48. World AI Inference Chip Production Market Share by Deployment location (2021-2032)
Figure 49. World AI Inference Chip Production Value Market Share by Deployment location (2021-2032)
Figure 50. World AI Inference Chip Average Price by Deployment location (2021-2032) & (US$/Unit)
Figure 51. World AI Inference Chip Production Value by Computing Power, (USD Million), 2021 & 2025 & 2032
Figure 52. World AI Inference Chip Production Value Market Share by Computing Power in 2025
Figure 53. <10 TOPS
Figure 54. 10–100 TOPS

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Figure 55. >100 TOPS
Figure 56. World AI Inference Chip Production Market Share by Computing Power (2021-2032)
Figure 57. World AI Inference Chip Production Value Market Share by Computing Power (2021-2032)
Figure 58. World AI Inference Chip Average Price by Computing Power (2021-2032) & (US$/Unit)
Figure 59. World AI Inference Chip Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 60. World AI Inference Chip Production Value Market Share by Application in 2025
Figure 61. Data Centers and Cloud Computing
Figure 62. Autonomous Driving and Robotics
Figure 63. Industrial IoT
Figure 64. Smart Devices and Consumer Electronics
Figure 65. Others
Figure 66. World AI Inference Chip Production Market Share by Application (2021-2032)
Figure 67. World AI Inference Chip Production Value Market Share by Application (2021-2032)
Figure 68. World AI Inference Chip Average Price by Application (2021-2032) & (US$/Unit)
Figure 69. AI Inference Chip Industry Chain
Figure 70. AI Inference Chip Procurement Model
Figure 71. AI Inference Chip Sales Model
Figure 72. AI Inference Chip Sales Channels, Direct Sales, and Distribution
Figure 73. Methodology
Figure 74. Research Process and Data Source

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