

Global AI Accelerator Module Market Growth 2026-2032

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Abstracts

The global AI Accelerator Module market size is predicted to grow from US\$ 60882 million in 2025 to US\$ 181279 million in 2032; it is expected to grow at a CAGR of 17.0% from 2026 to 2032.

An AI acceleration module is a modular computing product that integrates key components—such as dedicated AI computing chips, memory, interfaces, power management, and thermal management systems—to enhance the efficiency of AI model training, inference, and high-performance computing tasks. Typically centered around AI acceleration processors like GPUs, NPUs, TPUs, ASICs, or FPGAs, these modules connect to servers, edge computing devices, industrial control systems, or smart terminals via high-speed interconnect technologies, providing efficient computational support for deep learning algorithms, large-scale neural network models, computer vision, natural language processing, and generative AI applications.

Key FindingsIn 2025, global sales of AI acceleration modules are projected to reach approximately 15 million units, with a production capacity of around 21 million units; the average selling price is estimated at \$3,000–\$5,000 per unit, and the average gross margin at 45%–55%.Average selling price remained around several thousand US dollars per moduleNorth America and Asia Pacific formed the major regional markets for AI Accelerator Module demandAI Accelerator Module industry maintained relatively high gross margin characteristics driven by advanced computing technologies

Market TrendsThe AI Accelerator Module industry is moving toward higher computing density, improved energy efficiency and stronger modular integration capabilities. The rapid deployment of generative AI models is accelerating demand for high-performance training and inference modules, while enterprise AI adoption is expanding requirements

for scalable edge computing solutions. Product development is increasingly focused on heterogeneous computing architectures, advanced packaging integration, high-bandwidth memory connectivity and optimized thermal management. In addition, AI computing demand is gradually expanding from centralized cloud infrastructure toward edge devices, autonomous systems and industrial applications, creating broader opportunities for different performance-level accelerator modules.

Market Dynamics

DriversThe expansion of generative AI, large language models and enterprise AI applications is the primary demand driver for AI Accelerator Module adoption. Increasing investment in AI data centers, cloud computing infrastructure and intelligent computing platforms continues to stimulate demand for high-performance acceleration hardware. The growth of autonomous driving, industrial automation and edge intelligence further supports deployment of AI Accelerator Module solutions in distributed computing environments.

RestraintsAI Accelerator Module development faces constraints from high manufacturing costs, advanced semiconductor supply limitations and dependence on high-performance components such as advanced packaging and high-bandwidth memory. The complexity of hardware-software optimization and increasing requirements for thermal management and power efficiency also create challenges for wider commercialization across cost-sensitive applications.

OpportunitiesFuture opportunities are emerging from AI inference expansion, enterprise private AI deployment, AI-enabled industrial equipment and intelligent edge computing. The increasing need for localized AI processing creates opportunities for compact accelerator modules with optimized power consumption and application-specific performance. Automotive AI computing and robotics are also expected to become important growth areas as intelligent systems become more widespread.

ChallengesThe AI Accelerator Module industry faces long-term challenges including rapid technology iteration, ecosystem competition, software compatibility requirements and uncertainty in AI computing architecture evolution. Companies need continuous investment in hardware design, software optimization and supply chain capabilities to maintain competitiveness in a rapidly changing market environment.

Industry Chain AnalysisThe AI Accelerator Module industry chain covers semiconductor manufacturing, advanced packaging, memory supply, electronic components, module

assembly and downstream AI computing applications. The upstream sector provides AI processors, high-bandwidth memory, substrates, power components, cooling materials and manufacturing services. The midstream sector focuses on accelerator module design, hardware integration, thermal optimization, firmware adaptation and system validation. The downstream market includes data centers, cloud platforms, autonomous vehicles, industrial automation systems, medical equipment and intelligent terminals. The value creation of AI Accelerator Module is concentrated in semiconductor architecture design, computing performance optimization, software ecosystem compatibility and system integration capability. High-performance modules generally maintain higher profitability due to technological complexity and specialized requirements, while manufacturing and assembly businesses compete more through production efficiency, supply chain management and large-scale delivery capabilities.

Segment Insights AI Accelerator Module products can be mainly divided into data center AI Accelerator Module, edge AI Accelerator Module, embedded AI Accelerator Module and automotive AI Accelerator Module. Data center AI Accelerator Module currently represents the dominant segment, accounting for more than 70% of the market, supported by increasing demand for AI model training, inference services and cloud computing infrastructure. GPU-based modules remain the mainstream technology category due to mature software ecosystems and strong parallel computing capability, while ASIC and NPU-based modules are gaining attention in application-specific AI workloads. Among emerging segments, edge AI Accelerator Module shows strong development potential as industries increasingly require real-time AI processing closer to data sources. The combination of lower power consumption, compact design and application-oriented optimization is driving broader adoption in industrial automation, robotics and intelligent devices.

Downstream Market Opportunities AI Accelerator Module demand is primarily concentrated in data centers, cloud computing platforms, intelligent vehicles, industrial manufacturing, robotics, medical systems and smart devices. Data centers currently represent the largest downstream application area, while industrial intelligence, autonomous systems and edge computing are becoming important expansion directions. Customers increasingly require accelerator modules that provide balanced computing performance, power efficiency, deployment flexibility and software compatibility, creating opportunities for suppliers with strong system integration capabilities.

Regional Insights North America and Asia Pacific are the major regional markets for AI Accelerator Module applications. North America benefits from strong cloud computing

infrastructure, AI platform development and large-scale investment in artificial intelligence computing capacity. Asia Pacific has become an important manufacturing and consumption region due to its semiconductor supply chain capabilities, AI infrastructure construction and expanding intelligent equipment industries. Europe maintains demand in industrial automation, automotive intelligence and high-performance computing applications, with opportunities driven by industrial digitalization and advanced manufacturing transformation.

Competitive Landscape Analysis The AI Accelerator Module market presents a technology-intensive competitive structure involving semiconductor companies, AI computing platform providers and system integration manufacturers. Competition is mainly centered on computing performance, energy efficiency, software ecosystem compatibility, supply chain capability and customer-specific optimization. Leading companies focus on developing advanced accelerator architectures and integrated computing platforms, while module manufacturers emphasize production capability, system engineering and application adaptation. As AI workloads diversify from centralized training toward large-scale inference and edge deployment, competitive advantages are increasingly determined by ecosystem integration and application-specific solutions.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "AI Accelerator Module Industry Forecast" looks at past sales and reviews total world AI Accelerator Module sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Accelerator Module sales for 2026 through 2032. With AI Accelerator Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Accelerator Module industry.

This Insight Report provides a comprehensive analysis of the global AI Accelerator Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Accelerator Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Accelerator Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Accelerator Module and breaks down the forecast by

Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Accelerator Module.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Accelerator Module market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

- GPU-based AI Accelerator Module
- NPU-based AI Accelerator Module
- ASIC-based AI Accelerator Module
- FPGA-based AI Accelerator Module

Segmentation by Product Forms:

- PCIe AI Accelerator Module
- M.2 AI Accelerator Module
- Embedded AI Board Module

Segmentation by Computing Power:

- <10 TOPS
- 10–100 TOPS
- >100 TOPS

Segmentation by Application:

Data Centers and Cloud Computing

Autonomous Driving

Industrial IoT

Smart Home and Wearables

Smart Security and Video Analytics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NVIDIA

AMD

Intel

Amazon Web Services

IBM

HPE

Dell Technologies

Supermicro

Huawei

Hailo

Cambricon Technologies

ASUS

Renesas Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Accelerator Module market?

What factors are driving AI Accelerator Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Accelerator Module market opportunities vary by end market size?

How does AI Accelerator Module break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global AI Accelerator Module Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for AI Accelerator Module by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for AI Accelerator Module by Country/Region, 2021, 2025 & 2032
- 2.2 AI Accelerator Module Segment by Type
 - 2.2.1 GPU-based AI Accelerator Module
 - 2.2.2 NPU-based AI Accelerator Module
 - 2.2.3 ASIC-based AI Accelerator Module
 - 2.2.4 FPGA-based AI Accelerator Module
 - 2.2.5 AI Accelerator Module Sales by Type
 - 2.2.5.1 Global AI Accelerator Module Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global AI Accelerator Module Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global AI Accelerator Module Sale Price by Type (2021-2026)
- 2.3 AI Accelerator Module Segment by Product Forms
 - 2.3.1 PCIe AI Accelerator Module
 - 2.3.2 M.2 AI Accelerator Module
 - 2.3.3 Embedded AI Board Module
 - 2.3.4 AI Accelerator Module Sales by Product Forms
 - 2.3.4.1 Global AI Accelerator Module Sales Market Share by Product Forms (2021-2026)
 - 2.3.4.2 Global AI Accelerator Module Revenue and Market Share by Product Forms

(2021-2026)

2.3.4.3 Global AI Accelerator Module Sale Price by Product Forms (2021-2026)

2.4 AI Accelerator Module Segment by Computing Power

2.4.1 <10 TOPS

2.4.2 10–100 TOPS

2.4.3 >100 TOPS

2.4.4 AI Accelerator Module Sales by Computing Power

2.4.4.1 Global AI Accelerator Module Sales Market Share by Computing Power

(2021-2026)

2.4.4.2 Global AI Accelerator Module Revenue and Market Share by Computing Power (2021-2026)

2.4.4.3 Global AI Accelerator Module Sale Price by Computing Power (2021-2026)

2.5 AI Accelerator Module Segment by Application

2.5.1 Data Centers and Cloud Computing

2.5.2 Autonomous Driving

2.5.3 Industrial IoT

2.5.4 Smart Home and Wearables

2.5.5 Smart Security and Video Analytics

2.5.6 Others

2.5.7 AI Accelerator Module Sales by Application

2.5.7.1 Global AI Accelerator Module Sale Market Share by Application (2021-2026)

2.5.7.2 Global AI Accelerator Module Revenue and Market Share by Application

(2021-2026)

2.5.7.3 Global AI Accelerator Module Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global AI Accelerator Module Breakdown Data by Company

3.1.1 Global AI Accelerator Module Annual Sales by Company (2021-2026)

3.1.2 Global AI Accelerator Module Sales Market Share by Company (2021-2026)

3.2 Global AI Accelerator Module Annual Revenue by Company (2021-2026)

3.2.1 Global AI Accelerator Module Revenue by Company (2021-2026)

3.2.2 Global AI Accelerator Module Revenue Market Share by Company (2021-2026)

3.3 Global AI Accelerator Module Sale Price by Company

3.4 Key Manufacturers AI Accelerator Module Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers AI Accelerator Module Product Location Distribution

3.4.2 Players AI Accelerator Module Products Offered

3.5 Market Concentration Rate Analysis

- 3.5.1 Competition Landscape Analysis
- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AI ACCELERATOR MODULE BY GEOGRAPHIC REGION

- 4.1 World Historic AI Accelerator Module Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global AI Accelerator Module Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global AI Accelerator Module Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic AI Accelerator Module Market Size by Country/Region (2021-2026)
 - 4.2.1 Global AI Accelerator Module Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global AI Accelerator Module Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas AI Accelerator Module Sales Growth
- 4.4 APAC AI Accelerator Module Sales Growth
- 4.5 Europe AI Accelerator Module Sales Growth
- 4.6 Middle East & Africa AI Accelerator Module Sales Growth

5 AMERICAS

- 5.1 Americas AI Accelerator Module Sales by Country
 - 5.1.1 Americas AI Accelerator Module Sales by Country (2021-2026)
 - 5.1.2 Americas AI Accelerator Module Revenue by Country (2021-2026)
- 5.2 Americas AI Accelerator Module Sales by Type (2021-2026)
- 5.3 Americas AI Accelerator Module Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC AI Accelerator Module Sales by Region
 - 6.1.1 APAC AI Accelerator Module Sales by Region (2021-2026)
 - 6.1.2 APAC AI Accelerator Module Revenue by Region (2021-2026)
- 6.2 APAC AI Accelerator Module Sales by Type (2021-2026)

6.3 APAC AI Accelerator Module Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe AI Accelerator Module by Country

7.1.1 Europe AI Accelerator Module Sales by Country (2021-2026)

7.1.2 Europe AI Accelerator Module Revenue by Country (2021-2026)

7.2 Europe AI Accelerator Module Sales by Type (2021-2026)

7.3 Europe AI Accelerator Module Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa AI Accelerator Module by Country

8.1.1 Middle East & Africa AI Accelerator Module Sales by Country (2021-2026)

8.1.2 Middle East & Africa AI Accelerator Module Revenue by Country (2021-2026)

8.2 Middle East & Africa AI Accelerator Module Sales by Type (2021-2026)

8.3 Middle East & Africa AI Accelerator Module Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of AI Accelerator Module

10.3 Manufacturing Process Analysis of AI Accelerator Module

10.4 Industry Chain Structure of AI Accelerator Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 AI Accelerator Module Distributors

11.3 AI Accelerator Module Customer

12 WORLD FORECAST REVIEW FOR AI ACCELERATOR MODULE BY GEOGRAPHIC REGION

12.1 Global AI Accelerator Module Market Size Forecast by Region

12.1.1 Global AI Accelerator Module Forecast by Region (2027-2032)

12.1.2 Global AI Accelerator Module Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global AI Accelerator Module Forecast by Type (2027-2032)

12.7 Global AI Accelerator Module Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 NVIDIA

13.1.1 NVIDIA Company Information

13.1.2 NVIDIA AI Accelerator Module Product Portfolios and Specifications

13.1.3 NVIDIA AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 NVIDIA Main Business Overview

13.1.5 NVIDIA Latest Developments

13.2 AMD

13.2.1 AMD Company Information

13.2.2 AMD AI Accelerator Module Product Portfolios and Specifications

13.2.3 AMD AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 AMD Main Business Overview

13.2.5 AMD Latest Developments

13.3 Intel

13.3.1 Intel Company Information

13.3.2 Intel AI Accelerator Module Product Portfolios and Specifications

13.3.3 Intel AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Intel Main Business Overview

13.3.5 Intel Latest Developments

13.4 Amazon Web Services

13.4.1 Amazon Web Services Company Information

13.4.2 Amazon Web Services AI Accelerator Module Product Portfolios and Specifications

13.4.3 Amazon Web Services AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Amazon Web Services Main Business Overview

13.4.5 Amazon Web Services Latest Developments

13.5 IBM

13.5.1 IBM Company Information

13.5.2 IBM AI Accelerator Module Product Portfolios and Specifications

13.5.3 IBM AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 IBM Main Business Overview

13.5.5 IBM Latest Developments

13.6 HPE

13.6.1 HPE Company Information

13.6.2 HPE AI Accelerator Module Product Portfolios and Specifications

13.6.3 HPE AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 HPE Main Business Overview

13.6.5 HPE Latest Developments

13.7 Dell Technologies

13.7.1 Dell Technologies Company Information

13.7.2 Dell Technologies AI Accelerator Module Product Portfolios and Specifications

13.7.3 Dell Technologies AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Dell Technologies Main Business Overview

13.7.5 Dell Technologies Latest Developments

13.8 Supermicro

13.8.1 Supermicro Company Information

13.8.2 Supermicro AI Accelerator Module Product Portfolios and Specifications

13.8.3 Supermicro AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Supermicro Main Business Overview

13.8.5 Supermicro Latest Developments

13.9 Huawei

13.9.1 Huawei Company Information

13.9.2 Huawei AI Accelerator Module Product Portfolios and Specifications

13.9.3 Huawei AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Huawei Main Business Overview

13.9.5 Huawei Latest Developments

13.10 Hailo

13.10.1 Hailo Company Information

13.10.2 Hailo AI Accelerator Module Product Portfolios and Specifications

13.10.3 Hailo AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Hailo Main Business Overview

13.10.5 Hailo Latest Developments

13.11 Cambricon Technologies

13.11.1 Cambricon Technologies Company Information

13.11.2 Cambricon Technologies AI Accelerator Module Product Portfolios and Specifications

13.11.3 Cambricon Technologies AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Cambricon Technologies Main Business Overview

13.11.5 Cambricon Technologies Latest Developments

13.12 ASUS

13.12.1 ASUS Company Information

13.12.2 ASUS AI Accelerator Module Product Portfolios and Specifications

13.12.3 ASUS AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 ASUS Main Business Overview

13.12.5 ASUS Latest Developments

13.13 Renesas Electronics

13.13.1 Renesas Electronics Company Information

13.13.2 Renesas Electronics AI Accelerator Module Product Portfolios and Specifications

13.13.3 Renesas Electronics AI Accelerator Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Renesas Electronics Main Business Overview

13.13.5 Renesas Electronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. AI Accelerator Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. AI Accelerator Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of GPU-based AI Accelerator Module

Table 4. Major Players of NPU-based AI Accelerator Module

Table 5. Major Players of ASIC-based AI Accelerator Module

Table 6. Major Players of FPGA-based AI Accelerator Module

Table 7. Global AI Accelerator Module Sales by Type (2021-2026) & (K Units)

Table 8. Global AI Accelerator Module Sales Market Share by Type (2021-2026)

Table 9. Global AI Accelerator Module Revenue by Type (2021-2026) & (\$ million)

Table 10. Global AI Accelerator Module Revenue Market Share by Type (2021-2026)

Table 11. Global AI Accelerator Module Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of PCIe AI Accelerator Module

Table 13. Major Players of M.2 AI Accelerator Module

Table 14. Major Players of Embedded AI Board Module

Table 15. Global AI Accelerator Module Sales by Product Forms (2021-2026) & (K Units)

Table 16. Global AI Accelerator Module Sales Market Share by Product Forms (2021-2026)

Table 17. Global AI Accelerator Module Revenue by Product Forms (2021-2026) & (\$ million)

Table 18. Global AI Accelerator Module Revenue Market Share by Product Forms (2021-2026)

Table 19. Global AI Accelerator Module Sale Price by Product Forms (2021-2026) & (US\$/Unit)

Table 20. Major Players of >10 TOPS

Table 21. Major Players of 10–100 TOPS

Table 22. Major Players of >100 TOPS

Table 23. Global AI Accelerator Module Sales by Computing Power (2021-2026) & (K Units)

Table 24. Global AI Accelerator Module Sales Market Share by Computing Power (2021-2026)

Table 25. Global AI Accelerator Module Revenue by Computing Power (2021-2026) & (\$ million)

Table 26. Global AI Accelerator Module Revenue Market Share by Computing Power (2021-2026)

Table 27. Global AI Accelerator Module Sale Price by Computing Power (2021-2026) & (US\$/Unit)

Table 28. Global AI Accelerator Module Sale by Application (2021-2026) & (K Units)

Table 29. Global AI Accelerator Module Sale Market Share by Application (2021-2026)

Table 30. Global AI Accelerator Module Revenue by Application (2021-2026) & (\$ million)

Table 31. Global AI Accelerator Module Revenue Market Share by Application (2021-2026)

Table 32. Global AI Accelerator Module Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global AI Accelerator Module Sales by Company (2021-2026) & (K Units)

Table 34. Global AI Accelerator Module Sales Market Share by Company (2021-2026)

Table 35. Global AI Accelerator Module Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global AI Accelerator Module Revenue Market Share by Company (2021-2026)

Table 37. Global AI Accelerator Module Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers AI Accelerator Module Producing Area Distribution and Sales Area

Table 39. Players AI Accelerator Module Products Offered

Table 40. AI Accelerator Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global AI Accelerator Module Sales by Geographic Region (2021-2026) & (K Units)

Table 44. Global AI Accelerator Module Sales Market Share Geographic Region (2021-2026)

Table 45. Global AI Accelerator Module Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global AI Accelerator Module Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global AI Accelerator Module Sales by Country/Region (2021-2026) & (K Units)

Table 48. Global AI Accelerator Module Sales Market Share by Country/Region (2021-2026)

Table 49. Global AI Accelerator Module Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global AI Accelerator Module Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas AI Accelerator Module Sales by Country (2021-2026) & (K Units)

Table 52. Americas AI Accelerator Module Sales Market Share by Country (2021-2026)

Table 53. Americas AI Accelerator Module Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas AI Accelerator Module Sales by Type (2021-2026) & (K Units)

Table 55. Americas AI Accelerator Module Sales by Application (2021-2026) & (K Units)

Table 56. APAC AI Accelerator Module Sales by Region (2021-2026) & (K Units)

Table 57. APAC AI Accelerator Module Sales Market Share by Region (2021-2026)

Table 58. APAC AI Accelerator Module Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC AI Accelerator Module Sales by Type (2021-2026) & (K Units)

Table 60. APAC AI Accelerator Module Sales by Application (2021-2026) & (K Units)

Table 61. Europe AI Accelerator Module Sales by Country (2021-2026) & (K Units)

Table 62. Europe AI Accelerator Module Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe AI Accelerator Module Sales by Type (2021-2026) & (K Units)

Table 64. Europe AI Accelerator Module Sales by Application (2021-2026) & (K Units)

Table 65. Middle East & Africa AI Accelerator Module Sales by Country (2021-2026) & (K Units)

Table 66. Middle East & Africa AI Accelerator Module Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa AI Accelerator Module Sales by Type (2021-2026) & (K Units)

Table 68. Middle East & Africa AI Accelerator Module Sales by Application (2021-2026) & (K Units)

Table 69. Key Market Drivers & Growth Opportunities of AI Accelerator Module

Table 70. Key Market Challenges & Risks of AI Accelerator Module

Table 71. Key Industry Trends of AI Accelerator Module

Table 72. AI Accelerator Module Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. AI Accelerator Module Distributors List

Table 75. AI Accelerator Module Customer List

Table 76. Global AI Accelerator Module Sales Forecast by Region (2027-2032) & (K Units)

Table 77. Global AI Accelerator Module Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas AI Accelerator Module Sales Forecast by Country (2027-2032) & (K

Units)

Table 79. Americas AI Accelerator Module Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC AI Accelerator Module Sales Forecast by Region (2027-2032) & (K Units)

Table 81. APAC AI Accelerator Module Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe AI Accelerator Module Sales Forecast by Country (2027-2032) & (K Units)

Table 83. Europe AI Accelerator Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa AI Accelerator Module Sales Forecast by Country (2027-2032) & (K Units)

Table 85. Middle East & Africa AI Accelerator Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global AI Accelerator Module Sales Forecast by Type (2027-2032) & (K Units)

Table 87. Global AI Accelerator Module Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global AI Accelerator Module Sales Forecast by Application (2027-2032) & (K Units)

Table 89. Global AI Accelerator Module Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. NVIDIA Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors

Table 91. NVIDIA AI Accelerator Module Product Portfolios and Specifications

Table 92. NVIDIA AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. NVIDIA Main Business

Table 94. NVIDIA Latest Developments

Table 95. AMD Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors

Table 96. AMD AI Accelerator Module Product Portfolios and Specifications

Table 97. AMD AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. AMD Main Business

Table 99. AMD Latest Developments

Table 100. Intel Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors

Table 101. Intel AI Accelerator Module Product Portfolios and Specifications
Table 102. Intel AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 103. Intel Main Business
Table 104. Intel Latest Developments
Table 105. Amazon Web Services Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors
Table 106. Amazon Web Services AI Accelerator Module Product Portfolios and Specifications
Table 107. Amazon Web Services AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 108. Amazon Web Services Main Business
Table 109. Amazon Web Services Latest Developments
Table 110. IBM Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors
Table 111. IBM AI Accelerator Module Product Portfolios and Specifications
Table 112. IBM AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 113. IBM Main Business
Table 114. IBM Latest Developments
Table 115. HPE Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors
Table 116. HPE AI Accelerator Module Product Portfolios and Specifications
Table 117. HPE AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 118. HPE Main Business
Table 119. HPE Latest Developments
Table 120. Dell Technologies Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors
Table 121. Dell Technologies AI Accelerator Module Product Portfolios and Specifications
Table 122. Dell Technologies AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 123. Dell Technologies Main Business
Table 124. Dell Technologies Latest Developments
Table 125. Supermicro Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors
Table 126. Supermicro AI Accelerator Module Product Portfolios and Specifications
Table 127. Supermicro AI Accelerator Module Sales (K Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Supermicro Main Business

Table 129. Supermicro Latest Developments

Table 130. Huawei Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors

Table 131. Huawei AI Accelerator Module Product Portfolios and Specifications

Table 132. Huawei AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Huawei Main Business

Table 134. Huawei Latest Developments

Table 135. Hailo Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors

Table 136. Hailo AI Accelerator Module Product Portfolios and Specifications

Table 137. Hailo AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. Hailo Main Business

Table 139. Hailo Latest Developments

Table 140. Cambricon Technologies Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors

Table 141. Cambricon Technologies AI Accelerator Module Product Portfolios and Specifications

Table 142. Cambricon Technologies AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. Cambricon Technologies Main Business

Table 144. Cambricon Technologies Latest Developments

Table 145. ASUS Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors

Table 146. ASUS AI Accelerator Module Product Portfolios and Specifications

Table 147. ASUS AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. ASUS Main Business

Table 149. ASUS Latest Developments

Table 150. Renesas Electronics Basic Information, AI Accelerator Module Manufacturing Base, Sales Area and Its Competitors

Table 151. Renesas Electronics AI Accelerator Module Product Portfolios and Specifications

Table 152. Renesas Electronics AI Accelerator Module Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Renesas Electronics Main Business

Table 154. Renesas Electronics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of AI Accelerator Module
- Figure 2. AI Accelerator Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global AI Accelerator Module Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global AI Accelerator Module Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. AI Accelerator Module Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. AI Accelerator Module Sales Market Share by Country/Region (2025)
- Figure 10. AI Accelerator Module Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of GPU-based AI Accelerator Module
- Figure 12. Product Picture of NPU-based AI Accelerator Module
- Figure 13. Product Picture of ASIC-based AI Accelerator Module
- Figure 14. Product Picture of FPGA-based AI Accelerator Module
- Figure 15. Global AI Accelerator Module Sales Market Share by Type in 2026
- Figure 16. Global AI Accelerator Module Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of PCIe AI Accelerator Module
- Figure 18. Product Picture of M.2 AI Accelerator Module
- Figure 19. Product Picture of Embedded AI Board Module
- Figure 20. Global AI Accelerator Module Sales Market Share by Product Forms in 2026
- Figure 21. Global AI Accelerator Module Revenue Market Share by Product Forms (2021-2026)
- Figure 22. Product Picture of ?10 TOPS
- Figure 23. Product Picture of 10–100 TOPS
- Figure 24. Product Picture of ?100 TOPS
- Figure 25. Global AI Accelerator Module Sales Market Share by Computing Power in 2026
- Figure 26. Global AI Accelerator Module Revenue Market Share by Computing Power (2021-2026)
- Figure 27. AI Accelerator Module Consumed in Data Centers and Cloud Computing
- Figure 28. Global AI Accelerator Module Market: Data Centers and Cloud Computing (2021-2026) & (K Units)
- Figure 29. AI Accelerator Module Consumed in Autonomous Driving

Figure 30. Global AI Accelerator Module Market: Autonomous Driving (2021-2026) & (K Units)

Figure 31. AI Accelerator Module Consumed in Industrial IoT

Figure 32. Global AI Accelerator Module Market: Industrial IoT (2021-2026) & (K Units)

Figure 33. AI Accelerator Module Consumed in Smart Home and Wearables

Figure 34. Global AI Accelerator Module Market: Smart Home and Wearables (2021-2026) & (K Units)

Figure 35. AI Accelerator Module Consumed in Smart Security and Video Analytics

Figure 36. Global AI Accelerator Module Market: Smart Security and Video Analytics (2021-2026) & (K Units)

Figure 37. AI Accelerator Module Consumed in Others

Figure 38. Global AI Accelerator Module Market: Others (2021-2026) & (K Units)

Figure 39. Global AI Accelerator Module Sale Market Share by Application (2025)

Figure 40. Global AI Accelerator Module Revenue Market Share by Application in 2025

Figure 41. AI Accelerator Module Sales by Company in 2025 (K Units)

Figure 42. Global AI Accelerator Module Sales Market Share by Company in 2025

Figure 43. AI Accelerator Module Revenue by Company in 2025 (\$ millions)

Figure 44. Global AI Accelerator Module Revenue Market Share by Company in 2025

Figure 45. Global AI Accelerator Module Sales Market Share by Geographic Region (2021-2026)

Figure 46. Global AI Accelerator Module Revenue Market Share by Geographic Region in 2025

Figure 47. Americas AI Accelerator Module Sales 2021-2026 (K Units)

Figure 48. Americas AI Accelerator Module Revenue 2021-2026 (\$ millions)

Figure 49. APAC AI Accelerator Module Sales 2021-2026 (K Units)

Figure 50. APAC AI Accelerator Module Revenue 2021-2026 (\$ millions)

Figure 51. Europe AI Accelerator Module Sales 2021-2026 (K Units)

Figure 52. Europe AI Accelerator Module Revenue 2021-2026 (\$ millions)

Figure 53. Middle East & Africa AI Accelerator Module Sales 2021-2026 (K Units)

Figure 54. Middle East & Africa AI Accelerator Module Revenue 2021-2026 (\$ millions)

Figure 55. Americas AI Accelerator Module Sales Market Share by Country in 2025

Figure 56. Americas AI Accelerator Module Revenue Market Share by Country (2021-2026)

Figure 57. Americas AI Accelerator Module Sales Market Share by Type (2021-2026)

Figure 58. Americas AI Accelerator Module Sales Market Share by Application (2021-2026)

Figure 59. United States AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)

Figure 60. Canada AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)

Figure 61. Mexico AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)

- Figure 62. Brazil AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 63. APAC AI Accelerator Module Sales Market Share by Region in 2025
- Figure 64. APAC AI Accelerator Module Revenue Market Share by Region (2021-2026)
- Figure 65. APAC AI Accelerator Module Sales Market Share by Type (2021-2026)
- Figure 66. APAC AI Accelerator Module Sales Market Share by Application (2021-2026)
- Figure 67. China AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Japan AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 69. South Korea AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Southeast Asia AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 71. India AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Australia AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 73. China Taiwan AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Europe AI Accelerator Module Sales Market Share by Country in 2025
- Figure 75. Europe AI Accelerator Module Revenue Market Share by Country (2021-2026)
- Figure 76. Europe AI Accelerator Module Sales Market Share by Type (2021-2026)
- Figure 77. Europe AI Accelerator Module Sales Market Share by Application (2021-2026)
- Figure 78. Germany AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 79. France AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 80. UK AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Italy AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Russia AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Middle East & Africa AI Accelerator Module Sales Market Share by Country (2021-2026)
- Figure 84. Middle East & Africa AI Accelerator Module Sales Market Share by Type (2021-2026)
- Figure 85. Middle East & Africa AI Accelerator Module Sales Market Share by Application (2021-2026)
- Figure 86. Egypt AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 87. South Africa AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 88. Israel AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Turkey AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 90. GCC Countries AI Accelerator Module Revenue Growth 2021-2026 (\$ millions)
- Figure 91. Manufacturing Cost Structure Analysis of AI Accelerator Module in 2026
- Figure 92. Manufacturing Process Analysis of AI Accelerator Module
- Figure 93. Industry Chain Structure of AI Accelerator Module

Figure 94. Channels of Distribution

Figure 95. Global AI Accelerator Module Sales Market Forecast by Region (2027-2032)

Figure 96. Global AI Accelerator Module Revenue Market Share Forecast by Region (2027-2032)

Figure 97. Global AI Accelerator Module Sales Market Share Forecast by Type (2027-2032)

Figure 98. Global AI Accelerator Module Revenue Market Share Forecast by Type (2027-2032)

Figure 99. Global AI Accelerator Module Sales Market Share Forecast by Application (2027-2032)

Figure 100. Global AI Accelerator Module Revenue Market Share Forecast by Application (2027-2032)

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