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# Global Cloud AI Accelerator Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Cloud AI Accelerator market size was valued at US$ 18197 million in 2025 and is forecast to a readjusted size of US$ 113393 million by 2032 with a CAGR of 29.8% during review period.

Cloud AI Accelerators are high-performance computing devices deployed in cloud and hyperscale data centers to accelerate artificial intelligence workloads, including large-scale model training and high-throughput inference. These accelerators include both merchant GPUs and dedicated AI ASICs designed for cloud environments, typically delivered as accelerator cards, modules, or cloud-native instances. Compared with edge AI modules, Cloud AI Accelerators prioritize raw compute density, memory bandwidth, and interconnect performance to support large models and multi-node scalability.

In 2024, global Cloud AI Accelerator production reached approximately 1,250 thousand units, with an average global market price of around US$10,800 per unit. The market continues to expand rapidly, driven by sustained investment in cloud AI infrastructure, growing adoption of large models, and increasing reliance on cloud-based AI services, positioning Cloud AI Accelerators as a core pillar of next-generation data center computing.

The upstream supply chain of Cloud AI Accelerators is highly concentrated and capital-intensive. It includes advanced AI chip designers, leading-edge semiconductor foundries, advanced packaging providers (such as CoWoS-like technologies), high-bandwidth memory (HBM) suppliers, and substrate manufacturers. Manufacturing relies heavily on advanced process nodes and sophisticated packaging, making supply

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availability and yield critical constraints. As a result, upstream capacity and technology roadmaps strongly influence industry growth and pricing dynamics.

Downstream demand is dominated by hyperscale cloud service providers and large enterprise cloud operators, which deploy Cloud AI Accelerators in centralized data centers to power AI services, foundation model training, and cloud-based inference. These customers typically procure accelerators either directly as hardware or indirectly through cloud instances. Long deployment cycles, large order volumes, and tight integration with cloud software stacks characterize downstream demand, reinforcing high entry barriers for new suppliers.

The cost structure of Cloud AI Accelerators is dominated by the AI processor itself, followed by high-bandwidth memory, advanced packaging, PCB, power delivery components, and testing. Compared with standard data center hardware, Cloud AI Accelerators have significantly higher bill-of-materials costs, but also deliver substantial performance value. Gross margins are generally attractive, particularly for leading vendors with proprietary architectures or ecosystem advantages, although margins can fluctuate with wafer costs and capacity constraints.

This report is a detailed and comprehensive analysis for global Cloud AI Accelerator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global Cloud AI Accelerator market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Cloud AI Accelerator market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Cloud AI Accelerator market size and forecasts, by Type and by

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Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Cloud AI Accelerator market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Cloud AI Accelerator

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cloud AI Accelerator market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Qualcomm, Nvidia, Amazon, Huawei, Google, Intel, AMD, Microsoft, T-Head Semiconductor Co., Ltd., Enflame Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Cloud AI Accelerator market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

GPU-based AI Accelerators

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ASIC-based AI Accelerators

FPGA-based AI Accelerators

Others

Market segment by Workload

AI Training Accelerators

AI Inference Accelerators

Others

Market segment by Ownership & Business Model

Merchant Accelerators

Hyperscaler In-house Accelerators

### Market segment by Application

Hyperscale Public Cloud

Sovereign / Government Cloud

Enterprise Private Cloud

Others

## Major players covered

Qualcomm

Nvidia

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Amazon

Huawei

Google

Intel

AMD

Microsoft

T-Head Semiconductor Co., Ltd.

Enflame Technology

KUNLUNXIN

## Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

## The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cloud AI Accelerator product scope, market overview,

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market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cloud AI Accelerator, with price, sales quantity, revenue, and global market share of Cloud AI Accelerator from 2021 to 2026.

Chapter 3, the Cloud AI Accelerator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cloud AI Accelerator breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Cloud AI Accelerator market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cloud AI Accelerator.

Chapter 14 and 15, to describe Cloud AI Accelerator sales channel, distributors, customers, research findings and conclusion.

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# Contents

## 1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Cloud AI Accelerator Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 GPU-based AI Accelerators
  1.3.3 ASIC-based AI Accelerators
  1.3.4 FPGA-based AI Accelerators
  1.3.5 Others
1.4 Market Analysis by Workload
  1.4.1 Overview: Global Cloud AI Accelerator Consumption Value by Workload: 2021 Versus 2025 Versus 2032
  1.4.2 AI Training Accelerators
  1.4.3 AI Inference Accelerators
  1.4.4 Others
1.5 Market Analysis by Ownership & Business Model
  1.5.1 Overview: Global Cloud AI Accelerator Consumption Value by Ownership & Business Model: 2021 Versus 2025 Versus 2032
  1.5.2 Merchant Accelerators
  1.5.3 Hyperscaler In-house Accelerators
1.6 Market Analysis by Application
  1.6.1 Overview: Global Cloud AI Accelerator Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.6.2 Hyperscale Public Cloud
  1.6.3 Sovereign / Government Cloud
  1.6.4 Enterprise Private Cloud
  1.6.5 Others
1.7 Global Cloud AI Accelerator Market Size & Forecast
  1.7.1 Global Cloud AI Accelerator Consumption Value (2021 & 2025 & 2032)
  1.7.2 Global Cloud AI Accelerator Sales Quantity (2021-2032)
  1.7.3 Global Cloud AI Accelerator Average Price (2021-2032)

## 2 MANUFACTURERS PROFILES

2.1 Qualcomm

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2.1.1 Qualcomm Details
2.1.2 Qualcomm Major Business
2.1.3 Qualcomm Cloud AI Accelerator Product and Services
2.1.4 Qualcomm Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Qualcomm Recent Developments/Updates
2.2 Nvidia
2.2.1 Nvidia Details
2.2.2 Nvidia Major Business
2.2.3 Nvidia Cloud AI Accelerator Product and Services
2.2.4 Nvidia Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Nvidia Recent Developments/Updates
2.3 Amazon
2.3.1 Amazon Details
2.3.2 Amazon Major Business
2.3.3 Amazon Cloud AI Accelerator Product and Services
2.3.4 Amazon Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Amazon Recent Developments/Updates
2.4 Huawei
2.4.1 Huawei Details
2.4.2 Huawei Major Business
2.4.3 Huawei Cloud AI Accelerator Product and Services
2.4.4 Huawei Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 Huawei Recent Developments/Updates
2.5 Google
2.5.1 Google Details
2.5.2 Google Major Business
2.5.3 Google Cloud AI Accelerator Product and Services
2.5.4 Google Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 Google Recent Developments/Updates
2.6 Intel
2.6.1 Intel Details
2.6.2 Intel Major Business
2.6.3 Intel Cloud AI Accelerator Product and Services
2.6.4 Intel Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross

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Margin and Market Share (2021-2026)
2.6.5 Intel Recent Developments/Updates
2.7 AMD
2.7.1 AMD Details
2.7.2 AMD Major Business
2.7.3 AMD Cloud AI Accelerator Product and Services
2.7.4 AMD Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 AMD Recent Developments/Updates
2.8 Microsoft
2.8.1 Microsoft Details
2.8.2 Microsoft Major Business
2.8.3 Microsoft Cloud AI Accelerator Product and Services
2.8.4 Microsoft Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 Microsoft Recent Developments/Updates
2.9 T-Head Semiconductor Co., Ltd.
2.9.1 T-Head Semiconductor Co., Ltd. Details
2.9.2 T-Head Semiconductor Co., Ltd. Major Business
2.9.3 T-Head Semiconductor Co., Ltd. Cloud AI Accelerator Product and Services
2.9.4 T-Head Semiconductor Co., Ltd. Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 T-Head Semiconductor Co., Ltd. Recent Developments/Updates
2.10 Enflame Technology
2.10.1 Enflame Technology Details
2.10.2 Enflame Technology Major Business
2.10.3 Enflame Technology Cloud AI Accelerator Product and Services
2.10.4 Enflame Technology Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 Enflame Technology Recent Developments/Updates
2.11 KUNLUNXIN
2.11.1 KUNLUNXIN Details
2.11.2 KUNLUNXIN Major Business
2.11.3 KUNLUNXIN Cloud AI Accelerator Product and Services
2.11.4 KUNLUNXIN Cloud AI Accelerator Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 KUNLUNXIN Recent Developments/Updates

## 3 COMPETITIVE ENVIRONMENT: CLOUD AI ACCELERATOR BY

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## MANUFACTURER

3.1 Global Cloud AI Accelerator Sales Quantity by Manufacturer (2021-2026)
3.2 Global Cloud AI Accelerator Revenue by Manufacturer (2021-2026)
3.3 Global Cloud AI Accelerator Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
  3.4.1 Producer Shipments of Cloud AI Accelerator by Manufacturer Revenue ($MM) and Market Share (%): 2025
  3.4.2 Top 3 Cloud AI Accelerator Manufacturer Market Share in 2025
  3.4.3 Top 6 Cloud AI Accelerator Manufacturer Market Share in 2025
3.5 Cloud AI Accelerator Market: Overall Company Footprint Analysis
  3.5.1 Cloud AI Accelerator Market: Region Footprint
  3.5.2 Cloud AI Accelerator Market: Company Product Type Footprint
  3.5.3 Cloud AI Accelerator Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

## 4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Cloud AI Accelerator Market Size by Region
  4.1.1 Global Cloud AI Accelerator Sales Quantity by Region (2021-2032)
  4.1.2 Global Cloud AI Accelerator Consumption Value by Region (2021-2032)
  4.1.3 Global Cloud AI Accelerator Average Price by Region (2021-2032)
4.2 North America Cloud AI Accelerator Consumption Value (2021-2032)
4.3 Europe Cloud AI Accelerator Consumption Value (2021-2032)
4.4 Asia-Pacific Cloud AI Accelerator Consumption Value (2021-2032)
4.5 South America Cloud AI Accelerator Consumption Value (2021-2032)
4.6 Middle East & Africa Cloud AI Accelerator Consumption Value (2021-2032)

## 5 MARKET SEGMENT BY TYPE

5.1 Global Cloud AI Accelerator Sales Quantity by Type (2021-2032)
5.2 Global Cloud AI Accelerator Consumption Value by Type (2021-2032)
5.3 Global Cloud AI Accelerator Average Price by Type (2021-2032)

## 6 MARKET SEGMENT BY APPLICATION

6.1 Global Cloud AI Accelerator Sales Quantity by Application (2021-2032)
6.2 Global Cloud AI Accelerator Consumption Value by Application (2021-2032)

+357 96 030922
info@marketpublishers.com

6.3 Global Cloud AI Accelerator Average Price by Application (2021-2032)

**7 NORTH AMERICA**

7.1 North America Cloud AI Accelerator Sales Quantity by Type (2021-2032)
7.2 North America Cloud AI Accelerator Sales Quantity by Application (2021-2032)
7.3 North America Cloud AI Accelerator Market Size by Country
  7.3.1 North America Cloud AI Accelerator Sales Quantity by Country (2021-2032)
  7.3.2 North America Cloud AI Accelerator Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

**8 EUROPE**

8.1 Europe Cloud AI Accelerator Sales Quantity by Type (2021-2032)
8.2 Europe Cloud AI Accelerator Sales Quantity by Application (2021-2032)
8.3 Europe Cloud AI Accelerator Market Size by Country
  8.3.1 Europe Cloud AI Accelerator Sales Quantity by Country (2021-2032)
  8.3.2 Europe Cloud AI Accelerator Consumption Value by Country (2021-2032)
  8.3.3 Germany Market Size and Forecast (2021-2032)
  8.3.4 France Market Size and Forecast (2021-2032)
  8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  8.3.6 Russia Market Size and Forecast (2021-2032)
  8.3.7 Italy Market Size and Forecast (2021-2032)

**9 ASIA-PACIFIC**

9.1 Asia-Pacific Cloud AI Accelerator Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Cloud AI Accelerator Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Cloud AI Accelerator Market Size by Region
  9.3.1 Asia-Pacific Cloud AI Accelerator Sales Quantity by Region (2021-2032)
  9.3.2 Asia-Pacific Cloud AI Accelerator Consumption Value by Region (2021-2032)
  9.3.3 China Market Size and Forecast (2021-2032)
  9.3.4 Japan Market Size and Forecast (2021-2032)
  9.3.5 South Korea Market Size and Forecast (2021-2032)
  9.3.6 India Market Size and Forecast (2021-2032)
  9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
  9.3.8 Australia Market Size and Forecast (2021-2032)

+357 96 030922
info@marketpublishers.com

## 10 SOUTH AMERICA

10.1 South America Cloud AI Accelerator Sales Quantity by Type (2021-2032)
10.2 South America Cloud AI Accelerator Sales Quantity by Application (2021-2032)
10.3 South America Cloud AI Accelerator Market Size by Country
  10.3.1 South America Cloud AI Accelerator Sales Quantity by Country (2021-2032)
  10.3.2 South America Cloud AI Accelerator Consumption Value by Country (2021-2032)
  10.3.3 Brazil Market Size and Forecast (2021-2032)
  10.3.4 Argentina Market Size and Forecast (2021-2032)

## 11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Cloud AI Accelerator Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Cloud AI Accelerator Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Cloud AI Accelerator Market Size by Country
  11.3.1 Middle East & Africa Cloud AI Accelerator Sales Quantity by Country (2021-2032)
  11.3.2 Middle East & Africa Cloud AI Accelerator Consumption Value by Country (2021-2032)
  11.3.3 Turkey Market Size and Forecast (2021-2032)
  11.3.4 Egypt Market Size and Forecast (2021-2032)
  11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  11.3.6 South Africa Market Size and Forecast (2021-2032)

## 12 MARKET DYNAMICS

12.1 Cloud AI Accelerator Market Drivers
12.2 Cloud AI Accelerator Market Restraints
12.3 Cloud AI Accelerator Trends Analysis
12.4 Porters Five Forces Analysis
  12.4.1 Threat of New Entrants
  12.4.2 Bargaining Power of Suppliers
  12.4.3 Bargaining Power of Buyers
  12.4.4 Threat of Substitutes
  12.4.5 Competitive Rivalry

+357 96 030922
info@marketpublishers.com

## 13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Cloud AI Accelerator and Key Manufacturers
13.2 Manufacturing Costs Percentage of Cloud AI Accelerator
13.3 Cloud AI Accelerator Production Process
13.4 Industry Value Chain Analysis

## 14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
  14.1.1 Direct to End-User
  14.1.2 Distributors
14.2 Cloud AI Accelerator Typical Distributors
14.3 Cloud AI Accelerator Typical Customers

## 15 RESEARCH FINDINGS AND CONCLUSION

## 16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

# List Of Tables

## LIST OF TABLES

Table 1. Global Cloud AI Accelerator Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Cloud AI Accelerator Consumption Value by Workload, (USD Million), 2021 & 2025 & 2032
Table 3. Global Cloud AI Accelerator Consumption Value by Ownership & Business Model, (USD Million), 2021 & 2025 & 2032
Table 4. Global Cloud AI Accelerator Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 5. Qualcomm Basic Information, Manufacturing Base and Competitors
Table 6. Qualcomm Major Business
Table 7. Qualcomm Cloud AI Accelerator Product and Services
Table 8. Qualcomm Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 9. Qualcomm Recent Developments/Updates
Table 10. Nvidia Basic Information, Manufacturing Base and Competitors
Table 11. Nvidia Major Business
Table 12. Nvidia Cloud AI Accelerator Product and Services
Table 13. Nvidia Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 14. Nvidia Recent Developments/Updates
Table 15. Amazon Basic Information, Manufacturing Base and Competitors
Table 16. Amazon Major Business
Table 17. Amazon Cloud AI Accelerator Product and Services
Table 18. Amazon Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 19. Amazon Recent Developments/Updates
Table 20. Huawei Basic Information, Manufacturing Base and Competitors
Table 21. Huawei Major Business
Table 22. Huawei Cloud AI Accelerator Product and Services
Table 23. Huawei Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. Huawei Recent Developments/Updates
Table 25. Google Basic Information, Manufacturing Base and Competitors
Table 26. Google Major Business
Table 27. Google Cloud AI Accelerator Product and Services

+357 96 030922
info@marketpublishers.com

Table 28. Google Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Google Recent Developments/Updates
Table 30. Intel Basic Information, Manufacturing Base and Competitors
Table 31. Intel Major Business
Table 32. Intel Cloud AI Accelerator Product and Services
Table 33. Intel Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Intel Recent Developments/Updates
Table 35. AMD Basic Information, Manufacturing Base and Competitors
Table 36. AMD Major Business
Table 37. AMD Cloud AI Accelerator Product and Services
Table 38. AMD Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. AMD Recent Developments/Updates
Table 40. Microsoft Basic Information, Manufacturing Base and Competitors
Table 41. Microsoft Major Business
Table 42. Microsoft Cloud AI Accelerator Product and Services
Table 43. Microsoft Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. Microsoft Recent Developments/Updates
Table 45. T-Head Semiconductor Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 46. T-Head Semiconductor Co., Ltd. Major Business
Table 47. T-Head Semiconductor Co., Ltd. Cloud AI Accelerator Product and Services
Table 48. T-Head Semiconductor Co., Ltd. Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. T-Head Semiconductor Co., Ltd. Recent Developments/Updates
Table 50. Enflame Technology Basic Information, Manufacturing Base and Competitors
Table 51. Enflame Technology Major Business
Table 52. Enflame Technology Cloud AI Accelerator Product and Services
Table 53. Enflame Technology Cloud AI Accelerator Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. Enflame Technology Recent Developments/Updates
Table 55. KUNLUNXIN Basic Information, Manufacturing Base and Competitors
Table 56. KUNLUNXIN Major Business
Table 57. KUNLUNXIN Cloud AI Accelerator Product and Services
Table 58. KUNLUNXIN Cloud AI Accelerator Sales Quantity (K Units), Average Price

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info@marketpublishers.com

(US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. KUNLUNXIN Recent Developments/Updates
Table 60. Global Cloud AI Accelerator Sales Quantity by Manufacturer (2021-2026) & (K Units)
Table 61. Global Cloud AI Accelerator Revenue by Manufacturer (2021-2026) & (USD Million)
Table 62. Global Cloud AI Accelerator Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 63. Market Position of Manufacturers in Cloud AI Accelerator, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 64. Head Office and Cloud AI Accelerator Production Site of Key Manufacturer
Table 65. Cloud AI Accelerator Market: Company Product Type Footprint
Table 66. Cloud AI Accelerator Market: Company Product Application Footprint
Table 67. Cloud AI Accelerator New Market Entrants and Barriers to Market Entry
Table 68. Cloud AI Accelerator Mergers, Acquisition, Agreements, and Collaborations
Table 69. Global Cloud AI Accelerator Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 70. Global Cloud AI Accelerator Sales Quantity by Region (2021-2026) & (K Units)
Table 71. Global Cloud AI Accelerator Sales Quantity by Region (2027-2032) & (K Units)
Table 72. Global Cloud AI Accelerator Consumption Value by Region (2021-2026) & (USD Million)
Table 73. Global Cloud AI Accelerator Consumption Value by Region (2027-2032) & (USD Million)
Table 74. Global Cloud AI Accelerator Average Price by Region (2021-2026) & (US$/Unit)
Table 75. Global Cloud AI Accelerator Average Price by Region (2027-2032) & (US$/Unit)
Table 76. Global Cloud AI Accelerator Sales Quantity by Type (2021-2026) & (K Units)
Table 77. Global Cloud AI Accelerator Sales Quantity by Type (2027-2032) & (K Units)
Table 78. Global Cloud AI Accelerator Consumption Value by Type (2021-2026) & (USD Million)
Table 79. Global Cloud AI Accelerator Consumption Value by Type (2027-2032) & (USD Million)
Table 80. Global Cloud AI Accelerator Average Price by Type (2021-2026) & (US$/Unit)
Table 81. Global Cloud AI Accelerator Average Price by Type (2027-2032) & (US$/Unit)
Table 82. Global Cloud AI Accelerator Sales Quantity by Application (2021-2026) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 83. Global Cloud AI Accelerator Sales Quantity by Application (2027-2032) & (K Units)
Table 84. Global Cloud AI Accelerator Consumption Value by Application (2021-2026) & (USD Million)
Table 85. Global Cloud AI Accelerator Consumption Value by Application (2027-2032) & (USD Million)
Table 86. Global Cloud AI Accelerator Average Price by Application (2021-2026) & (US$/Unit)
Table 87. Global Cloud AI Accelerator Average Price by Application (2027-2032) & (US$/Unit)
Table 88. North America Cloud AI Accelerator Sales Quantity by Type (2021-2026) & (K Units)
Table 89. North America Cloud AI Accelerator Sales Quantity by Type (2027-2032) & (K Units)
Table 90. North America Cloud AI Accelerator Sales Quantity by Application (2021-2026) & (K Units)
Table 91. North America Cloud AI Accelerator Sales Quantity by Application (2027-2032) & (K Units)
Table 92. North America Cloud AI Accelerator Sales Quantity by Country (2021-2026) & (K Units)
Table 93. North America Cloud AI Accelerator Sales Quantity by Country (2027-2032) & (K Units)
Table 94. North America Cloud AI Accelerator Consumption Value by Country (2021-2026) & (USD Million)
Table 95. North America Cloud AI Accelerator Consumption Value by Country (2027-2032) & (USD Million)
Table 96. Europe Cloud AI Accelerator Sales Quantity by Type (2021-2026) & (K Units)
Table 97. Europe Cloud AI Accelerator Sales Quantity by Type (2027-2032) & (K Units)
Table 98. Europe Cloud AI Accelerator Sales Quantity by Application (2021-2026) & (K Units)
Table 99. Europe Cloud AI Accelerator Sales Quantity by Application (2027-2032) & (K Units)
Table 100. Europe Cloud AI Accelerator Sales Quantity by Country (2021-2026) & (K Units)
Table 101. Europe Cloud AI Accelerator Sales Quantity by Country (2027-2032) & (K Units)
Table 102. Europe Cloud AI Accelerator Consumption Value by Country (2021-2026) & (USD Million)
Table 103. Europe Cloud AI Accelerator Consumption Value by Country (2027-2032) &

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(USD Million)
Table 104. Asia-Pacific Cloud AI Accelerator Sales Quantity by Type (2021-2026) & (K Units)
Table 105. Asia-Pacific Cloud AI Accelerator Sales Quantity by Type (2027-2032) & (K Units)
Table 106. Asia-Pacific Cloud AI Accelerator Sales Quantity by Application (2021-2026) & (K Units)
Table 107. Asia-Pacific Cloud AI Accelerator Sales Quantity by Application (2027-2032) & (K Units)
Table 108. Asia-Pacific Cloud AI Accelerator Sales Quantity by Region (2021-2026) & (K Units)
Table 109. Asia-Pacific Cloud AI Accelerator Sales Quantity by Region (2027-2032) & (K Units)
Table 110. Asia-Pacific Cloud AI Accelerator Consumption Value by Region (2021-2026) & (USD Million)
Table 111. Asia-Pacific Cloud AI Accelerator Consumption Value by Region (2027-2032) & (USD Million)
Table 112. South America Cloud AI Accelerator Sales Quantity by Type (2021-2026) & (K Units)
Table 113. South America Cloud AI Accelerator Sales Quantity by Type (2027-2032) & (K Units)
Table 114. South America Cloud AI Accelerator Sales Quantity by Application (2021-2026) & (K Units)
Table 115. South America Cloud AI Accelerator Sales Quantity by Application (2027-2032) & (K Units)
Table 116. South America Cloud AI Accelerator Sales Quantity by Country (2021-2026) & (K Units)
Table 117. South America Cloud AI Accelerator Sales Quantity by Country (2027-2032) & (K Units)
Table 118. South America Cloud AI Accelerator Consumption Value by Country (2021-2026) & (USD Million)
Table 119. South America Cloud AI Accelerator Consumption Value by Country (2027-2032) & (USD Million)
Table 120. Middle East & Africa Cloud AI Accelerator Sales Quantity by Type (2021-2026) & (K Units)
Table 121. Middle East & Africa Cloud AI Accelerator Sales Quantity by Type (2027-2032) & (K Units)
Table 122. Middle East & Africa Cloud AI Accelerator Sales Quantity by Application (2021-2026) & (K Units)

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Table 123. Middle East & Africa Cloud AI Accelerator Sales Quantity by Application (2027-2032) & (K Units)
Table 124. Middle East & Africa Cloud AI Accelerator Sales Quantity by Country (2021-2026) & (K Units)
Table 125. Middle East & Africa Cloud AI Accelerator Sales Quantity by Country (2027-2032) & (K Units)
Table 126. Middle East & Africa Cloud AI Accelerator Consumption Value by Country (2021-2026) & (USD Million)
Table 127. Middle East & Africa Cloud AI Accelerator Consumption Value by Country (2027-2032) & (USD Million)
Table 128. Cloud AI Accelerator Raw Material
Table 129. Key Manufacturers of Cloud AI Accelerator Raw Materials
Table 130. Cloud AI Accelerator Typical Distributors
Table 131. Cloud AI Accelerator Typical Customers

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# List Of Figures

## LIST OF FIGURES

Figure 1. Cloud AI Accelerator Picture
Figure 2. Global Cloud AI Accelerator Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Cloud AI Accelerator Revenue Market Share by Type in 2025
Figure 4. GPU-based AI Accelerators Examples
Figure 5. ASIC-based AI Accelerators Examples
Figure 6. FPGA-based AI Accelerators Examples
Figure 7. Others Examples
Figure 8. Global Cloud AI Accelerator Revenue by Workload, (USD Million), 2021 & 2025 & 2032
Figure 9. Global Cloud AI Accelerator Revenue Market Share by Workload in 2025
Figure 10. AI Training Accelerators Examples
Figure 11. AI Inference Accelerators Examples
Figure 12. Others Examples
Figure 13. Global Cloud AI Accelerator Revenue by Ownership & Business Model, (USD Million), 2021 & 2025 & 2032
Figure 14. Global Cloud AI Accelerator Revenue Market Share by Ownership & Business Model in 2025
Figure 15. Merchant Accelerators Examples
Figure 16. Hyperscaler In-house Accelerators Examples
Figure 17. Global Cloud AI Accelerator Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 18. Global Cloud AI Accelerator Revenue Market Share by Application in 2025
Figure 19. Hyperscale Public Cloud Examples
Figure 20. Sovereign / Government Cloud Examples
Figure 21. Enterprise Private Cloud Examples
Figure 22. Others Examples
Figure 23. Global Cloud AI Accelerator Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 24. Global Cloud AI Accelerator Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 25. Global Cloud AI Accelerator Sales Quantity (2021-2032) & (K Units)
Figure 26. Global Cloud AI Accelerator Price (2021-2032) & (US$/Unit)
Figure 27. Global Cloud AI Accelerator Sales Quantity Market Share by Manufacturer in 2025

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Figure 28. Global Cloud AI Accelerator Revenue Market Share by Manufacturer in 2025
Figure 29. Producer Shipments of Cloud AI Accelerator by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 30. Top 3 Cloud AI Accelerator Manufacturer (Revenue) Market Share in 2025
Figure 31. Top 6 Cloud AI Accelerator Manufacturer (Revenue) Market Share in 2025
Figure 32. Global Cloud AI Accelerator Sales Quantity Market Share by Region (2021-2032)
Figure 33. Global Cloud AI Accelerator Consumption Value Market Share by Region (2021-2032)
Figure 34. North America Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 35. Europe Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 36. Asia-Pacific Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 37. South America Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 38. Middle East & Africa Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 39. Global Cloud AI Accelerator Sales Quantity Market Share by Type (2021-2032)
Figure 40. Global Cloud AI Accelerator Consumption Value Market Share by Type (2021-2032)
Figure 41. Global Cloud AI Accelerator Average Price by Type (2021-2032) & (US$/Unit)
Figure 42. Global Cloud AI Accelerator Sales Quantity Market Share by Application (2021-2032)
Figure 43. Global Cloud AI Accelerator Revenue Market Share by Application (2021-2032)
Figure 44. Global Cloud AI Accelerator Average Price by Application (2021-2032) & (US$/Unit)
Figure 45. North America Cloud AI Accelerator Sales Quantity Market Share by Type (2021-2032)
Figure 46. North America Cloud AI Accelerator Sales Quantity Market Share by Application (2021-2032)
Figure 47. North America Cloud AI Accelerator Sales Quantity Market Share by Country (2021-2032)
Figure 48. North America Cloud AI Accelerator Consumption Value Market Share by Country (2021-2032)

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Figure 49. United States Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 50. Canada Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 51. Mexico Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 52. Europe Cloud AI Accelerator Sales Quantity Market Share by Type (2021-2032)
Figure 53. Europe Cloud AI Accelerator Sales Quantity Market Share by Application (2021-2032)
Figure 54. Europe Cloud AI Accelerator Sales Quantity Market Share by Country (2021-2032)
Figure 55. Europe Cloud AI Accelerator Consumption Value Market Share by Country (2021-2032)
Figure 56. Germany Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 57. France Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 58. United Kingdom Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 59. Russia Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 60. Italy Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 61. Asia-Pacific Cloud AI Accelerator Sales Quantity Market Share by Type (2021-2032)
Figure 62. Asia-Pacific Cloud AI Accelerator Sales Quantity Market Share by Application (2021-2032)
Figure 63. Asia-Pacific Cloud AI Accelerator Sales Quantity Market Share by Region (2021-2032)
Figure 64. Asia-Pacific Cloud AI Accelerator Consumption Value Market Share by Region (2021-2032)
Figure 65. China Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 66. Japan Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 67. South Korea Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 68. India Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 69. Southeast Asia Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 70. Australia Cloud AI Accelerator Consumption Value (2021-2032) & (USD

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Million)
Figure 71. South America Cloud AI Accelerator Sales Quantity Market Share by Type (2021-2032)
Figure 72. South America Cloud AI Accelerator Sales Quantity Market Share by Application (2021-2032)
Figure 73. South America Cloud AI Accelerator Sales Quantity Market Share by Country (2021-2032)
Figure 74. South America Cloud AI Accelerator Consumption Value Market Share by Country (2021-2032)
Figure 75. Brazil Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 76. Argentina Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 77. Middle East & Africa Cloud AI Accelerator Sales Quantity Market Share by Type (2021-2032)
Figure 78. Middle East & Africa Cloud AI Accelerator Sales Quantity Market Share by Application (2021-2032)
Figure 79. Middle East & Africa Cloud AI Accelerator Sales Quantity Market Share by Country (2021-2032)
Figure 80. Middle East & Africa Cloud AI Accelerator Consumption Value Market Share by Country (2021-2032)
Figure 81. Turkey Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 82. Egypt Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 83. Saudi Arabia Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 84. South Africa Cloud AI Accelerator Consumption Value (2021-2032) & (USD Million)
Figure 85. Cloud AI Accelerator Market Drivers
Figure 86. Cloud AI Accelerator Market Restraints
Figure 87. Cloud AI Accelerator Market Trends
Figure 88. Porters Five Forces Analysis
Figure 89. Manufacturing Cost Structure Analysis of Cloud AI Accelerator in 2025
Figure 90. Manufacturing Process Analysis of Cloud AI Accelerator
Figure 91. Cloud AI Accelerator Industrial Chain
Figure 92. Sales Channel: Direct to End-User vs Distributors
Figure 93. Direct Channel Pros & Cons
Figure 94. Indirect Channel Pros & Cons
Figure 95. Methodology
Figure 96. Research Process and Data Source

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