

Global Large-Model AI Accelerator Chips Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Large-Model AI Accelerator Chips market size is expected to reach \$ 1097725 million by 2032, rising at a market growth of 22.0% CAGR during the forecast period (2026-2032).

Large-Model AI Accelerator Chips are semiconductor processors, accelerator cards, modules and custom compute devices designed to accelerate large language models, multimodal foundation models, generative AI applications, recommender systems and agentic AI workloads. Their core capabilities are built around high-throughput tensor and matrix computation, low-precision arithmetic, high-bandwidth memory access, on-chip and scale-out interconnects, compiler support, runtime software stacks and cluster-level execution. The scope of this study focuses on AI GPUs, AI ASICs, NPUs, TPUs, XPU, RDUs, LPUs, IPUs and related accelerator modules that can support large-model training, post-training, fine-tuning, inference, token generation and multimodal AI workloads in cloud, data center and high-performance edge environments.

Based on our research, the large-model AI accelerator chip industry has moved beyond a single GPU accelerator framework and is now evolving into a multi-architecture competition among AI GPUs, custom ASICs, TPUs, XPU, RDUs, LPUs and cloud providers in-house accelerators. The core of the industry is no longer just peak chip performance; it is a full-stack competition involving advanced process nodes, high-bandwidth memory, advanced packaging, scale-up and scale-out interconnects, system software, compilers, runtime libraries, model compatibility and customer switching costs. NVIDIA remains the structural leader due to its CUDA ecosystem, Blackwell platform and entrenched data center customer base. AMD, Intel, Broadcom, Google, AWS, Microsoft, Meta and Huawei are competing through different approaches, ranging from merchant AI GPUs and Gaudi accelerators to custom ASICs and captive cloud chips.

For analytical purposes, using ?NPU? alone would materially understate the real industry boundary, so this study adopts ?Large-Model AI Accelerator Chips? as the standard scope.

From the demand-side perspective, frontier model training still requires high-end GPUs and large-scale high-bandwidth clusters, but the incremental growth is increasingly shifting toward inference, real-time token generation, long-context processing, multimodal workloads and agentic AI. Training accelerators are evaluated by FP8/BF16 throughput, HBM capacity, interconnect bandwidth and software maturity, while inference accelerators compete on tokens per watt, tokens per dollar, latency, KV-cache efficiency, model switching speed and rack-level utilization. The expansion of in-house accelerators by Google, AWS, Microsoft and Meta shows that leading cloud customers are increasingly aligning chip design with their own models, serving systems and data-center architectures. The likely market structure is not a simple replacement of GPUs by ASICs, but a workload split in which flexible GPUs remain central for training and heterogeneous development, while custom ASICs gain share in high-volume stable inference.

From the policy and industry-cycle perspective, export controls, domestic substitution, AI data-center capital expenditure, HBM availability and advanced packaging capacity are becoming decisive variables. Chinese vendors still face constraints in leading-edge foundry access, HBM supply, advanced packaging and software ecosystems, but local AI infrastructure demand and policy support are creating a large protected market for domestic accelerators. Over the next three to five years, competition will shift from single-card benchmark claims to system-level total cost of ownership, cluster reliability, model migration cost, inference energy efficiency and supply-chain resilience. The industry remains in a high-growth phase, while substitution risks come from both directions: hyperscalers? in-house ASICs may reduce merchant GPU dependence, and model-level efficiency improvements such as quantization, sparsity, MoE routing and serving-stack optimization may reduce accelerator demand per unit of AI output.

This report studies the global Large-Model AI Accelerator Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Large-Model AI Accelerator Chips 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 Large-Model AI Accelerator Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Large-Model AI Accelerator Chips total production and demand, 2021-2032, (Million Units)

Global Large-Model AI Accelerator Chips total production value, 2021-2032, (USD Million)

Global Large-Model AI Accelerator Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Large-Model AI Accelerator Chips consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Large-Model AI Accelerator Chips domestic production, consumption, key domestic manufacturers and share

Global Large-Model AI Accelerator Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Large-Model AI Accelerator Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Large-Model AI Accelerator Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Large-Model AI Accelerator Chips 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 Corporation, Alphabet Inc., Amazon.com, Inc., Broadcom Inc., Microsoft Corporation, Meta Platforms, Inc., Advanced Micro Devices, Inc., Huawei Technologies Co., Ltd., Intel Corporation, Marvell Technology, Inc., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Large-Model AI Accelerator Chips 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 Large-Model AI Accelerator Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Large-Model AI Accelerator Chips Market, Segmentation by Type:

AI GPU

AI ASIC

NPU / XPU

TPU-like Accelerator

Other

Global Large-Model AI Accelerator Chips Market, Segmentation by Numerical Precision:

FP32 / TF32

BF16 / FP16

FP8

INT8

INT4 / FP4

Other

Global Large-Model AI Accelerator Chips Market, Segmentation by Memory and Packaging:

HBM-based Accelerator

GDDR-based Accelerator

DDR / LPDDR-based Accelerator

Other

Global Large-Model AI Accelerator Chips Market, Segmentation by Interconnect and Scalability:

PCIe-based Scaling

Ethernet-based Scaling

Other

Global Large-Model AI Accelerator Chips Market, Segmentation by Application:

Cloud Computing & AI Infrastructure

Healthcare & Life Sciences

Energy & Utilities

Consumer Electronics

Other

Companies Profiled:

NVIDIA Corporation

Alphabet Inc.

Amazon.com, Inc.

Broadcom Inc.

Microsoft Corporation

Meta Platforms, Inc.

Advanced Micro Devices, Inc.

Huawei Technologies Co., Ltd.

Intel Corporation

Marvell Technology, Inc.

OpenAI, L.L.C.

Qualcomm Incorporated

Alibaba Group Holding Limited

Cambricon Technologies Corporation Limited

Hygon Information Technology Co., Ltd.

Cerebras Systems, Inc.

Groq, Inc.

SambaNova Systems, Inc.

d-Matrix Corporation

Tenstorrent Inc.

Rebellions Inc.

FuriosaAI, Inc.

Moore Threads Technology Co., Ltd.

Shanghai Enflame Technology Co., Ltd.

Kunlunxin Technology Co., Ltd.

Shanghai Biren Intelligent Technology Co., Ltd.

MetaX Integrated Circuits Co., Ltd.

Iluvatar CoreX

Hailo Technologies Ltd.

SiMa.ai

Axelera AI B.V.

Etched AI Inc.

Key Questions Answered:

1. How big is the global Large-Model AI Accelerator Chips market?
2. What is the demand of the global Large-Model AI Accelerator Chips market?

3. What is the year over year growth of the global Large-Model AI Accelerator Chips market?
4. What is the production and production value of the global Large-Model AI Accelerator Chips market?
5. Who are the key producers in the global Large-Model AI Accelerator Chips market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

Comparison

4.3.1 United States VS China: Large-Model AI Accelerator Chips Consumption

Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Large-Model AI Accelerator Chips Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Large-Model AI Accelerator Chips Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Large-Model AI Accelerator Chips Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Large-Model AI Accelerator Chips Production Value (2021-2026)

4.4.3 United States Based Manufacturers Large-Model AI Accelerator Chips Production (2021-2026)

4.5 China Based Large-Model AI Accelerator Chips Manufacturers and Market Share

4.5.1 China Based Large-Model AI Accelerator Chips Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Large-Model AI Accelerator Chips Production Value (2021-2026)

4.5.3 China Based Manufacturers Large-Model AI Accelerator Chips Production (2021-2026)

4.6 Rest of World Based Large-Model AI Accelerator Chips Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Large-Model AI Accelerator Chips Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Large-Model AI Accelerator Chips Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Large-Model AI Accelerator Chips Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Large-Model AI Accelerator Chips Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 AI GPU

5.2.2 AI ASIC

5.2.3 NPU / XPU

5.2.4 TPU-like Accelerator

5.2.5 Other

5.3 Market Segment by Type

5.3.1 World Large-Model AI Accelerator Chips Production by Type (2021-2032)

5.3.2 World Large-Model AI Accelerator Chips Production Value by Type (2021-2032)

5.3.3 World Large-Model AI Accelerator Chips Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY NUMERICAL PRECISION

6.1 World Large-Model AI Accelerator Chips Market Size Overview by Numerical Precision: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Numerical Precision

6.2.1 FP32 / TF32

6.2.2 BF16 / FP16

6.2.3 FP8

6.2.4 INT8

6.2.5 INT4 / FP4

6.2.6 Other

6.3 Market Segment by Numerical Precision

6.3.1 World Large-Model AI Accelerator Chips Production by Numerical Precision (2021-2032)

6.3.2 World Large-Model AI Accelerator Chips Production Value by Numerical Precision (2021-2032)

6.3.3 World Large-Model AI Accelerator Chips Average Price by Numerical Precision (2021-2032)

7 MARKET ANALYSIS BY MEMORY AND PACKAGING

7.1 World Large-Model AI Accelerator Chips Market Size Overview by Memory and Packaging: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Memory and Packaging

7.2.1 HBM-based Accelerator

7.2.2 GDDR-based Accelerator

7.2.3 DDR / LPDDR-based Accelerator

7.2.4 Other

7.3 Market Segment by Memory and Packaging

7.3.1 World Large-Model AI Accelerator Chips Production by Memory and Packaging (2021-2032)

7.3.2 World Large-Model AI Accelerator Chips Production Value by Memory and Packaging (2021-2032)

7.3.3 World Large-Model AI Accelerator Chips Average Price by Memory and

Packaging (2021-2032)

8 MARKET ANALYSIS BY INTERCONNECT AND SCALABILITY

8.1 World Large-Model AI Accelerator Chips Market Size Overview by Interconnect and Scalability: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Interconnect and Scalability

8.2.1 PCIe-based Scaling

8.2.2 Ethernet-based Scaling

8.2.3 Other

8.3 Market Segment by Interconnect and Scalability

8.3.1 World Large-Model AI Accelerator Chips Production by Interconnect and Scalability (2021-2032)

8.3.2 World Large-Model AI Accelerator Chips Production Value by Interconnect and Scalability (2021-2032)

8.3.3 World Large-Model AI Accelerator Chips Average Price by Interconnect and Scalability (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Large-Model AI Accelerator Chips Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Cloud Computing & AI Infrastructure

9.2.2 Healthcare & Life Sciences

9.2.3 Energy & Utilities

9.2.4 Consumer Electronics

9.2.5 Other

9.3 Market Segment by Application

9.3.1 World Large-Model AI Accelerator Chips Production by Application (2021-2032)

9.3.2 World Large-Model AI Accelerator Chips Production Value by Application (2021-2032)

9.3.3 World Large-Model AI Accelerator Chips Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 NVIDIA Corporation

10.1.1 NVIDIA Corporation Details

- 10.1.2 NVIDIA Corporation Major Business
- 10.1.3 NVIDIA Corporation Large-Model AI Accelerator Chips Product and Services
- 10.1.4 NVIDIA Corporation Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.1.5 NVIDIA Corporation Recent Developments/Updates
- 10.1.6 NVIDIA Corporation Competitive Strengths & Weaknesses
- 10.2 Alphabet Inc.
 - 10.2.1 Alphabet Inc. Details
 - 10.2.2 Alphabet Inc. Major Business
 - 10.2.3 Alphabet Inc. Large-Model AI Accelerator Chips Product and Services
 - 10.2.4 Alphabet Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.2.5 Alphabet Inc. Recent Developments/Updates
 - 10.2.6 Alphabet Inc. Competitive Strengths & Weaknesses
- 10.3 Amazon.com, Inc.
 - 10.3.1 Amazon.com, Inc. Details
 - 10.3.2 Amazon.com, Inc. Major Business
 - 10.3.3 Amazon.com, Inc. Large-Model AI Accelerator Chips Product and Services
 - 10.3.4 Amazon.com, Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.3.5 Amazon.com, Inc. Recent Developments/Updates
 - 10.3.6 Amazon.com, Inc. Competitive Strengths & Weaknesses
- 10.4 Broadcom Inc.
 - 10.4.1 Broadcom Inc. Details
 - 10.4.2 Broadcom Inc. Major Business
 - 10.4.3 Broadcom Inc. Large-Model AI Accelerator Chips Product and Services
 - 10.4.4 Broadcom Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.4.5 Broadcom Inc. Recent Developments/Updates
 - 10.4.6 Broadcom Inc. Competitive Strengths & Weaknesses
- 10.5 Microsoft Corporation
 - 10.5.1 Microsoft Corporation Details
 - 10.5.2 Microsoft Corporation Major Business
 - 10.5.3 Microsoft Corporation Large-Model AI Accelerator Chips Product and Services
 - 10.5.4 Microsoft Corporation Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Microsoft Corporation Recent Developments/Updates
 - 10.5.6 Microsoft Corporation Competitive Strengths & Weaknesses
- 10.6 Meta Platforms, Inc.

- 10.6.1 Meta Platforms, Inc. Details
- 10.6.2 Meta Platforms, Inc. Major Business
- 10.6.3 Meta Platforms, Inc. Large-Model AI Accelerator Chips Product and Services
- 10.6.4 Meta Platforms, Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.6.5 Meta Platforms, Inc. Recent Developments/Updates
- 10.6.6 Meta Platforms, Inc. Competitive Strengths & Weaknesses
- 10.7 Advanced Micro Devices, Inc.
 - 10.7.1 Advanced Micro Devices, Inc. Details
 - 10.7.2 Advanced Micro Devices, Inc. Major Business
 - 10.7.3 Advanced Micro Devices, Inc. Large-Model AI Accelerator Chips Product and Services
 - 10.7.4 Advanced Micro Devices, Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Advanced Micro Devices, Inc. Recent Developments/Updates
 - 10.7.6 Advanced Micro Devices, Inc. Competitive Strengths & Weaknesses
- 10.8 Huawei Technologies Co., Ltd.
 - 10.8.1 Huawei Technologies Co., Ltd. Details
 - 10.8.2 Huawei Technologies Co., Ltd. Major Business
 - 10.8.3 Huawei Technologies Co., Ltd. Large-Model AI Accelerator Chips Product and Services
 - 10.8.4 Huawei Technologies Co., Ltd. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 Huawei Technologies Co., Ltd. Recent Developments/Updates
 - 10.8.6 Huawei Technologies Co., Ltd. Competitive Strengths & Weaknesses
- 10.9 Intel Corporation
 - 10.9.1 Intel Corporation Details
 - 10.9.2 Intel Corporation Major Business
 - 10.9.3 Intel Corporation Large-Model AI Accelerator Chips Product and Services
 - 10.9.4 Intel Corporation Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.9.5 Intel Corporation Recent Developments/Updates
 - 10.9.6 Intel Corporation Competitive Strengths & Weaknesses
- 10.10 Marvell Technology, Inc.
 - 10.10.1 Marvell Technology, Inc. Details
 - 10.10.2 Marvell Technology, Inc. Major Business
 - 10.10.3 Marvell Technology, Inc. Large-Model AI Accelerator Chips Product and Services
 - 10.10.4 Marvell Technology, Inc. Large-Model AI Accelerator Chips Production, Price,

Value, Gross Margin and Market Share (2021-2026)

10.10.5 Marvell Technology, Inc. Recent Developments/Updates

10.10.6 Marvell Technology, Inc. Competitive Strengths & Weaknesses

10.11 OpenAI, L.L.C.

10.11.1 OpenAI, L.L.C. Details

10.11.2 OpenAI, L.L.C. Major Business

10.11.3 OpenAI, L.L.C. Large-Model AI Accelerator Chips Product and Services

10.11.4 OpenAI, L.L.C. Large-Model AI Accelerator Chips Production, Price, Value,

Gross Margin and Market Share (2021-2026)

10.11.5 OpenAI, L.L.C. Recent Developments/Updates

10.11.6 OpenAI, L.L.C. Competitive Strengths & Weaknesses

10.12 Qualcomm Incorporated

10.12.1 Qualcomm Incorporated Details

10.12.2 Qualcomm Incorporated Major Business

10.12.3 Qualcomm Incorporated Large-Model AI Accelerator Chips Product and

Services

10.12.4 Qualcomm Incorporated Large-Model AI Accelerator Chips Production, Price,

Value, Gross Margin and Market Share (2021-2026)

10.12.5 Qualcomm Incorporated Recent Developments/Updates

10.12.6 Qualcomm Incorporated Competitive Strengths & Weaknesses

10.13 Alibaba Group Holding Limited

10.13.1 Alibaba Group Holding Limited Details

10.13.2 Alibaba Group Holding Limited Major Business

10.13.3 Alibaba Group Holding Limited Large-Model AI Accelerator Chips Product and

Services

10.13.4 Alibaba Group Holding Limited Large-Model AI Accelerator Chips Production,

Price, Value, Gross Margin and Market Share (2021-2026)

10.13.5 Alibaba Group Holding Limited Recent Developments/Updates

10.13.6 Alibaba Group Holding Limited Competitive Strengths & Weaknesses

10.14 Cambricon Technologies Corporation Limited

10.14.1 Cambricon Technologies Corporation Limited Details

10.14.2 Cambricon Technologies Corporation Limited Major Business

10.14.3 Cambricon Technologies Corporation Limited Large-Model AI Accelerator

Chips Product and Services

10.14.4 Cambricon Technologies Corporation Limited Large-Model AI Accelerator

Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.14.5 Cambricon Technologies Corporation Limited Recent Developments/Updates

10.14.6 Cambricon Technologies Corporation Limited Competitive Strengths &

Weaknesses

10.15 Hygon Information Technology Co., Ltd.

10.15.1 Hygon Information Technology Co., Ltd. Details

10.15.2 Hygon Information Technology Co., Ltd. Major Business

10.15.3 Hygon Information Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services

10.15.4 Hygon Information Technology Co., Ltd. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.15.5 Hygon Information Technology Co., Ltd. Recent Developments/Updates

10.15.6 Hygon Information Technology Co., Ltd. Competitive Strengths & Weaknesses

10.16 Cerebras Systems, Inc.

10.16.1 Cerebras Systems, Inc. Details

10.16.2 Cerebras Systems, Inc. Major Business

10.16.3 Cerebras Systems, Inc. Large-Model AI Accelerator Chips Product and Services

10.16.4 Cerebras Systems, Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.16.5 Cerebras Systems, Inc. Recent Developments/Updates

10.16.6 Cerebras Systems, Inc. Competitive Strengths & Weaknesses

10.17 Groq, Inc.

10.17.1 Groq, Inc. Details

10.17.2 Groq, Inc. Major Business

10.17.3 Groq, Inc. Large-Model AI Accelerator Chips Product and Services

10.17.4 Groq, Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.17.5 Groq, Inc. Recent Developments/Updates

10.17.6 Groq, Inc. Competitive Strengths & Weaknesses

10.18 SambaNova Systems, Inc.

10.18.1 SambaNova Systems, Inc. Details

10.18.2 SambaNova Systems, Inc. Major Business

10.18.3 SambaNova Systems, Inc. Large-Model AI Accelerator Chips Product and Services

10.18.4 SambaNova Systems, Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.18.5 SambaNova Systems, Inc. Recent Developments/Updates

10.18.6 SambaNova Systems, Inc. Competitive Strengths & Weaknesses

10.19 d-Matrix Corporation

10.19.1 d-Matrix Corporation Details

10.19.2 d-Matrix Corporation Major Business

10.19.3 d-Matrix Corporation Large-Model AI Accelerator Chips Product and Services

10.19.4 d-Matrix Corporation Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.19.5 d-Matrix Corporation Recent Developments/Updates

10.19.6 d-Matrix Corporation Competitive Strengths & Weaknesses

10.20 Tenstorrent Inc.

10.20.1 Tenstorrent Inc. Details

10.20.2 Tenstorrent Inc. Major Business

10.20.3 Tenstorrent Inc. Large-Model AI Accelerator Chips Product and Services

10.20.4 Tenstorrent Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.20.5 Tenstorrent Inc. Recent Developments/Updates

10.20.6 Tenstorrent Inc. Competitive Strengths & Weaknesses

10.21 Rebellions Inc.

10.21.1 Rebellions Inc. Details

10.21.2 Rebellions Inc. Major Business

10.21.3 Rebellions Inc. Large-Model AI Accelerator Chips Product and Services

10.21.4 Rebellions Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.21.5 Rebellions Inc. Recent Developments/Updates

10.21.6 Rebellions Inc. Competitive Strengths & Weaknesses

10.22 FuriosaAI, Inc.

10.22.1 FuriosaAI, Inc. Details

10.22.2 FuriosaAI, Inc. Major Business

10.22.3 FuriosaAI, Inc. Large-Model AI Accelerator Chips Product and Services

10.22.4 FuriosaAI, Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.22.5 FuriosaAI, Inc. Recent Developments/Updates

10.22.6 FuriosaAI, Inc. Competitive Strengths & Weaknesses

10.23 Moore Threads Technology Co., Ltd.

10.23.1 Moore Threads Technology Co., Ltd. Details

10.23.2 Moore Threads Technology Co., Ltd. Major Business

10.23.3 Moore Threads Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services

10.23.4 Moore Threads Technology Co., Ltd. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.23.5 Moore Threads Technology Co., Ltd. Recent Developments/Updates

10.23.6 Moore Threads Technology Co., Ltd. Competitive Strengths & Weaknesses

10.24 Shanghai Enflame Technology Co., Ltd.

10.24.1 Shanghai Enflame Technology Co., Ltd. Details

- 10.24.2 Shanghai Enflame Technology Co., Ltd. Major Business
- 10.24.3 Shanghai Enflame Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services
- 10.24.4 Shanghai Enflame Technology Co., Ltd. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.24.5 Shanghai Enflame Technology Co., Ltd. Recent Developments/Updates
- 10.24.6 Shanghai Enflame Technology Co., Ltd. Competitive Strengths & Weaknesses
- 10.25 Kunlunxin Technology Co., Ltd.
- 10.25.1 Kunlunxin Technology Co., Ltd. Details
- 10.25.2 Kunlunxin Technology Co., Ltd. Major Business
- 10.25.3 Kunlunxin Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services
- 10.25.4 Kunlunxin Technology Co., Ltd. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.25.5 Kunlunxin Technology Co., Ltd. Recent Developments/Updates
- 10.25.6 Kunlunxin Technology Co., Ltd. Competitive Strengths & Weaknesses
- 10.26 Shanghai Biren Intelligent Technology Co., Ltd.
- 10.26.1 Shanghai Biren Intelligent Technology Co., Ltd. Details
- 10.26.2 Shanghai Biren Intelligent Technology Co., Ltd. Major Business
- 10.26.3 Shanghai Biren Intelligent Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services
- 10.26.4 Shanghai Biren Intelligent Technology Co., Ltd. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.26.5 Shanghai Biren Intelligent Technology Co., Ltd. Recent Developments/Updates
- 10.26.6 Shanghai Biren Intelligent Technology Co., Ltd. Competitive Strengths & Weaknesses
- 10.27 MetaX Integrated Circuits Co., Ltd.
- 10.27.1 MetaX Integrated Circuits Co., Ltd. Details
- 10.27.2 MetaX Integrated Circuits Co., Ltd. Major Business
- 10.27.3 MetaX Integrated Circuits Co., Ltd. Large-Model AI Accelerator Chips Product and Services
- 10.27.4 MetaX Integrated Circuits Co., Ltd. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.27.5 MetaX Integrated Circuits Co., Ltd. Recent Developments/Updates
- 10.27.6 MetaX Integrated Circuits Co., Ltd. Competitive Strengths & Weaknesses
- 10.28 Iluvatar CoreX
- 10.28.1 Iluvatar CoreX Details
- 10.28.2 Iluvatar CoreX Major Business

- 10.28.3 Iluvatar CoreX Large-Model AI Accelerator Chips Product and Services
- 10.28.4 Iluvatar CoreX Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.28.5 Iluvatar CoreX Recent Developments/Updates
- 10.28.6 Iluvatar CoreX Competitive Strengths & Weaknesses
- 10.29 Hailo Technologies Ltd.
 - 10.29.1 Hailo Technologies Ltd. Details
 - 10.29.2 Hailo Technologies Ltd. Major Business
 - 10.29.3 Hailo Technologies Ltd. Large-Model AI Accelerator Chips Product and Services
 - 10.29.4 Hailo Technologies Ltd. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.29.5 Hailo Technologies Ltd. Recent Developments/Updates
 - 10.29.6 Hailo Technologies Ltd. Competitive Strengths & Weaknesses
- 10.30 SiMa.ai
 - 10.30.1 SiMa.ai Details
 - 10.30.2 SiMa.ai Major Business
 - 10.30.3 SiMa.ai Large-Model AI Accelerator Chips Product and Services
 - 10.30.4 SiMa.ai Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.30.5 SiMa.ai Recent Developments/Updates
 - 10.30.6 SiMa.ai Competitive Strengths & Weaknesses
- 10.31 Axelera AI B.V.
 - 10.31.1 Axelera AI B.V. Details
 - 10.31.2 Axelera AI B.V. Major Business
 - 10.31.3 Axelera AI B.V. Large-Model AI Accelerator Chips Product and Services
 - 10.31.4 Axelera AI B.V. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.31.5 Axelera AI B.V. Recent Developments/Updates
 - 10.31.6 Axelera AI B.V. Competitive Strengths & Weaknesses
- 10.32 Etched AI Inc.
 - 10.32.1 Etched AI Inc. Details
 - 10.32.2 Etched AI Inc. Major Business
 - 10.32.3 Etched AI Inc. Large-Model AI Accelerator Chips Product and Services
 - 10.32.4 Etched AI Inc. Large-Model AI Accelerator Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.32.5 Etched AI Inc. Recent Developments/Updates
 - 10.32.6 Etched AI Inc. Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Large-Model AI Accelerator Chips Industry Chain
- 11.2 Large-Model AI Accelerator Chips Upstream Analysis
 - 11.2.1 Large-Model AI Accelerator Chips Core Raw Materials
 - 11.2.2 Main Manufacturers of Large-Model AI Accelerator Chips Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Large-Model AI Accelerator Chips Production Mode
- 11.6 Large-Model AI Accelerator Chips Procurement Model
- 11.7 Large-Model AI Accelerator Chips Industry Sales Model and Sales Channels
 - 11.7.1 Large-Model AI Accelerator Chips Sales Model
 - 11.7.2 Large-Model AI Accelerator Chips Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Large-Model AI Accelerator Chips Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Large-Model AI Accelerator Chips Production Value by Region (2021-2026) & (USD Million)

Table 3. World Large-Model AI Accelerator Chips Production Value by Region (2027-2032) & (USD Million)

Table 4. World Large-Model AI Accelerator Chips Production Value Market Share by Region (2021-2026)

Table 5. World Large-Model AI Accelerator Chips Production Value Market Share by Region (2027-2032)

Table 6. World Large-Model AI Accelerator Chips Production by Region (2021-2026) & (Million Units)

Table 7. World Large-Model AI Accelerator Chips Production by Region (2027-2032) & (Million Units)

Table 8. World Large-Model AI Accelerator Chips Production Market Share by Region (2021-2026)

Table 9. World Large-Model AI Accelerator Chips Production Market Share by Region (2027-2032)

Table 10. World Large-Model AI Accelerator Chips Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Large-Model AI Accelerator Chips Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Large-Model AI Accelerator Chips Major Market Trends

Table 13. World Large-Model AI Accelerator Chips Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Large-Model AI Accelerator Chips Consumption by Region (2021-2026) & (Million Units)

Table 15. World Large-Model AI Accelerator Chips Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Large-Model AI Accelerator Chips Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Large-Model AI Accelerator Chips Producers in 2025

Table 18. World Large-Model AI Accelerator Chips Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Large-Model AI Accelerator Chips Producers in 2025

Table 20. World Large-Model AI Accelerator Chips Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Large-Model AI Accelerator Chips Company Evaluation Quadrant

Table 22. World Large-Model AI Accelerator Chips Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Large-Model AI Accelerator Chips Production Site of Key Manufacturer

Table 24. Large-Model AI Accelerator Chips Market: Company Product Type Footprint

Table 25. Large-Model AI Accelerator Chips Market: Company Product Application Footprint

Table 26. Large-Model AI Accelerator Chips Competitive Factors

Table 27. Large-Model AI Accelerator Chips New Entrant and Capacity Expansion Plans

Table 28. Large-Model AI Accelerator Chips Mergers & Acquisitions Activity

Table 29. United States VS China Large-Model AI Accelerator Chips Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Large-Model AI Accelerator Chips Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Large-Model AI Accelerator Chips Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Large-Model AI Accelerator Chips Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Large-Model AI Accelerator Chips Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Large-Model AI Accelerator Chips Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Large-Model AI Accelerator Chips Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Large-Model AI Accelerator Chips Production Market Share (2021-2026)

Table 37. China Based Large-Model AI Accelerator Chips Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Large-Model AI Accelerator Chips Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Large-Model AI Accelerator Chips Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Large-Model AI Accelerator Chips Production,

(2021-2026) & (Million Units)

Table 41. China Based Manufacturers Large-Model AI Accelerator Chips Production Market Share (2021-2026)

Table 42. Rest of World Based Large-Model AI Accelerator Chips Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Large-Model AI Accelerator Chips Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Large-Model AI Accelerator Chips Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Large-Model AI Accelerator Chips Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Large-Model AI Accelerator Chips Production Market Share (2021-2026)

Table 47. World Large-Model AI Accelerator Chips Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Large-Model AI Accelerator Chips Production by Type (2021-2026) & (Million Units)

Table 49. World Large-Model AI Accelerator Chips Production by Type (2027-2032) & (Million Units)

Table 50. World Large-Model AI Accelerator Chips Production Value by Type (2021-2026) & (USD Million)

Table 51. World Large-Model AI Accelerator Chips Production Value by Type (2027-2032) & (USD Million)

Table 52. World Large-Model AI Accelerator Chips Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Large-Model AI Accelerator Chips Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Large-Model AI Accelerator Chips Production Value by Numerical Precision, (USD Million), 2021 & 2025 & 2032

Table 55. World Large-Model AI Accelerator Chips Production by Numerical Precision (2021-2026) & (Million Units)

Table 56. World Large-Model AI Accelerator Chips Production by Numerical Precision (2027-2032) & (Million Units)

Table 57. World Large-Model AI Accelerator Chips Production Value by Numerical Precision (2021-2026) & (USD Million)

Table 58. World Large-Model AI Accelerator Chips Production Value by Numerical Precision (2027-2032) & (USD Million)

Table 59. World Large-Model AI Accelerator Chips Average Price by Numerical Precision (2021-2026) & (US\$/Unit)

Table 60. World Large-Model AI Accelerator Chips Average Price by Numerical Precision (2027-2032) & (US\$/Unit)

Table 61. World Large-Model AI Accelerator Chips Production Value by Memory and Packaging, (USD Million), 2021 & 2025 & 2032

Table 62. World Large-Model AI Accelerator Chips Production by Memory and Packaging (2021-2026) & (Million Units)

Table 63. World Large-Model AI Accelerator Chips Production by Memory and Packaging (2027-2032) & (Million Units)

Table 64. World Large-Model AI Accelerator Chips Production Value by Memory and Packaging (2021-2026) & (USD Million)

Table 65. World Large-Model AI Accelerator Chips Production Value by Memory and Packaging (2027-2032) & (USD Million)

Table 66. World Large-Model AI Accelerator Chips Average Price by Memory and Packaging (2021-2026) & (US\$/Unit)

Table 67. World Large-Model AI Accelerator Chips Average Price by Memory and Packaging (2027-2032) & (US\$/Unit)

Table 68. World Large-Model AI Accelerator Chips Production Value by Interconnect and Scalability, (USD Million), 2021 & 2025 & 2032

Table 69. World Large-Model AI Accelerator Chips Production by Interconnect and Scalability (2021-2026) & (Million Units)

Table 70. World Large-Model AI Accelerator Chips Production by Interconnect and Scalability (2027-2032) & (Million Units)

Table 71. World Large-Model AI Accelerator Chips Production Value by Interconnect and Scalability (2021-2026) & (USD Million)

Table 72. World Large-Model AI Accelerator Chips Production Value by Interconnect and Scalability (2027-2032) & (USD Million)

Table 73. World Large-Model AI Accelerator Chips Average Price by Interconnect and Scalability (2021-2026) & (US\$/Unit)

Table 74. World Large-Model AI Accelerator Chips Average Price by Interconnect and Scalability (2027-2032) & (US\$/Unit)

Table 75. World Large-Model AI Accelerator Chips Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Large-Model AI Accelerator Chips Production by Application (2021-2026) & (Million Units)

Table 77. World Large-Model AI Accelerator Chips Production by Application (2027-2032) & (Million Units)

Table 78. World Large-Model AI Accelerator Chips Production Value by Application (2021-2026) & (USD Million)

Table 79. World Large-Model AI Accelerator Chips Production Value by Application

(2027-2032) & (USD Million)

Table 80. World Large-Model AI Accelerator Chips Average Price by Application
(2021-2026) & (US\$/Unit)

Table 81. World Large-Model AI Accelerator Chips Average Price by Application
(2027-2032) & (US\$/Unit)

Table 82. NVIDIA Corporation Basic Information, Manufacturing Base and Competitors

Table 83. NVIDIA Corporation Major Business

Table 84. NVIDIA Corporation Large-Model AI Accelerator Chips Product and Services

Table 85. NVIDIA Corporation Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. NVIDIA Corporation Recent Developments/Updates

Table 87. NVIDIA Corporation Competitive Strengths & Weaknesses

Table 88. Alphabet Inc. Basic Information, Manufacturing Base and Competitors

Table 89. Alphabet Inc. Major Business

Table 90. Alphabet Inc. Large-Model AI Accelerator Chips Product and Services

Table 91. Alphabet Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Alphabet Inc. Recent Developments/Updates

Table 93. Alphabet Inc. Competitive Strengths & Weaknesses

Table 94. Amazon.com, Inc. Basic Information, Manufacturing Base and Competitors

Table 95. Amazon.com, Inc. Major Business

Table 96. Amazon.com, Inc. Large-Model AI Accelerator Chips Product and Services

Table 97. Amazon.com, Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Amazon.com, Inc. Recent Developments/Updates

Table 99. Amazon.com, Inc. Competitive Strengths & Weaknesses

Table 100. Broadcom Inc. Basic Information, Manufacturing Base and Competitors

Table 101. Broadcom Inc. Major Business

Table 102. Broadcom Inc. Large-Model AI Accelerator Chips Product and Services

Table 103. Broadcom Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Broadcom Inc. Recent Developments/Updates

Table 105. Broadcom Inc. Competitive Strengths & Weaknesses

Table 106. Microsoft Corporation Basic Information, Manufacturing Base and Competitors

Table 107. Microsoft Corporation Major Business

Table 108. Microsoft Corporation Large-Model AI Accelerator Chips Product and Services

Table 109. Microsoft Corporation Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Microsoft Corporation Recent Developments/Updates

Table 111. Microsoft Corporation Competitive Strengths & Weaknesses

Table 112. Meta Platforms, Inc. Basic Information, Manufacturing Base and Competitors

Table 113. Meta Platforms, Inc. Major Business

Table 114. Meta Platforms, Inc. Large-Model AI Accelerator Chips Product and Services

Table 115. Meta Platforms, Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Meta Platforms, Inc. Recent Developments/Updates

Table 117. Meta Platforms, Inc. Competitive Strengths & Weaknesses

Table 118. Advanced Micro Devices, Inc. Basic Information, Manufacturing Base and Competitors

Table 119. Advanced Micro Devices, Inc. Major Business

Table 120. Advanced Micro Devices, Inc. Large-Model AI Accelerator Chips Product and Services

Table 121. Advanced Micro Devices, Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Advanced Micro Devices, Inc. Recent Developments/Updates

Table 123. Advanced Micro Devices, Inc. Competitive Strengths & Weaknesses

Table 124. Huawei Technologies Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 125. Huawei Technologies Co., Ltd. Major Business

Table 126. Huawei Technologies Co., Ltd. Large-Model AI Accelerator Chips Product and Services

Table 127. Huawei Technologies Co., Ltd. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Huawei Technologies Co., Ltd. Recent Developments/Updates

Table 129. Huawei Technologies Co., Ltd. Competitive Strengths & Weaknesses

Table 130. Intel Corporation Basic Information, Manufacturing Base and Competitors

Table 131. Intel Corporation Major Business

Table 132. Intel Corporation Large-Model AI Accelerator Chips Product and Services

Table 133. Intel Corporation Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Intel Corporation Recent Developments/Updates

Table 135. Intel Corporation Competitive Strengths & Weaknesses

Table 136. Marvell Technology, Inc. Basic Information, Manufacturing Base and Competitors

Table 137. Marvell Technology, Inc. Major Business

Table 138. Marvell Technology, Inc. Large-Model AI Accelerator Chips Product and Services

Table 139. Marvell Technology, Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Marvell Technology, Inc. Recent Developments/Updates

Table 141. Marvell Technology, Inc. Competitive Strengths & Weaknesses

Table 142. OpenAI, L.L.C. Basic Information, Manufacturing Base and Competitors

Table 143. OpenAI, L.L.C. Major Business

Table 144. OpenAI, L.L.C. Large-Model AI Accelerator Chips Product and Services

Table 145. OpenAI, L.L.C. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. OpenAI, L.L.C. Recent Developments/Updates

Table 147. OpenAI, L.L.C. Competitive Strengths & Weaknesses

Table 148. Qualcomm Incorporated Basic Information, Manufacturing Base and Competitors

Table 149. Qualcomm Incorporated Major Business

Table 150. Qualcomm Incorporated Large-Model AI Accelerator Chips Product and Services

Table 151. Qualcomm Incorporated Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Qualcomm Incorporated Recent Developments/Updates

Table 153. Qualcomm Incorporated Competitive Strengths & Weaknesses

Table 154. Alibaba Group Holding Limited Basic Information, Manufacturing Base and Competitors

Table 155. Alibaba Group Holding Limited Major Business

Table 156. Alibaba Group Holding Limited Large-Model AI Accelerator Chips Product and Services

Table 157. Alibaba Group Holding Limited Large-Model AI Accelerator Chips Production

(Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Alibaba Group Holding Limited Recent Developments/Updates

Table 159. Alibaba Group Holding Limited Competitive Strengths & Weaknesses

Table 160. Cambricon Technologies Corporation Limited Basic Information, Manufacturing Base and Competitors

Table 161. Cambricon Technologies Corporation Limited Major Business

Table 162. Cambricon Technologies Corporation Limited Large-Model AI Accelerator Chips Product and Services

Table 163. Cambricon Technologies Corporation Limited Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. Cambricon Technologies Corporation Limited Recent Developments/Updates

Table 165. Cambricon Technologies Corporation Limited Competitive Strengths & Weaknesses

Table 166. Hygon Information Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 167. Hygon Information Technology Co., Ltd. Major Business

Table 168. Hygon Information Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services

Table 169. Hygon Information Technology Co., Ltd. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. Hygon Information Technology Co., Ltd. Recent Developments/Updates

Table 171. Hygon Information Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 172. Cerebras Systems, Inc. Basic Information, Manufacturing Base and Competitors

Table 173. Cerebras Systems, Inc. Major Business

Table 174. Cerebras Systems, Inc. Large-Model AI Accelerator Chips Product and Services

Table 175. Cerebras Systems, Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 176. Cerebras Systems, Inc. Recent Developments/Updates

Table 177. Cerebras Systems, Inc. Competitive Strengths & Weaknesses

Table 178. Groq, Inc. Basic Information, Manufacturing Base and Competitors

Table 179. Groq, Inc. Major Business

Table 180. Groq, Inc. Large-Model AI Accelerator Chips Product and Services
Table 181. Groq, Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 182. Groq, Inc. Recent Developments/Updates
Table 183. Groq, Inc. Competitive Strengths & Weaknesses
Table 184. SambaNova Systems, Inc. Basic Information, Manufacturing Base and Competitors
Table 185. SambaNova Systems, Inc. Major Business
Table 186. SambaNova Systems, Inc. Large-Model AI Accelerator Chips Product and Services
Table 187. SambaNova Systems, Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 188. SambaNova Systems, Inc. Recent Developments/Updates
Table 189. SambaNova Systems, Inc. Competitive Strengths & Weaknesses
Table 190. d-Matrix Corporation Basic Information, Manufacturing Base and Competitors
Table 191. d-Matrix Corporation Major Business
Table 192. d-Matrix Corporation Large-Model AI Accelerator Chips Product and Services
Table 193. d-Matrix Corporation Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 194. d-Matrix Corporation Recent Developments/Updates
Table 195. d-Matrix Corporation Competitive Strengths & Weaknesses
Table 196. Tenstorrent Inc. Basic Information, Manufacturing Base and Competitors
Table 197. Tenstorrent Inc. Major Business
Table 198. Tenstorrent Inc. Large-Model AI Accelerator Chips Product and Services
Table 199. Tenstorrent Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 200. Tenstorrent Inc. Recent Developments/Updates
Table 201. Tenstorrent Inc. Competitive Strengths & Weaknesses
Table 202. Rebellions Inc. Basic Information, Manufacturing Base and Competitors
Table 203. Rebellions Inc. Major Business
Table 204. Rebellions Inc. Large-Model AI Accelerator Chips Product and Services
Table 205. Rebellions Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 206. Rebellions Inc. Recent Developments/Updates

Table 207. Rebellions Inc. Competitive Strengths & Weaknesses

Table 208. FuriosaAI, Inc. Basic Information, Manufacturing Base and Competitors

Table 209. FuriosaAI, Inc. Major Business

Table 210. FuriosaAI, Inc. Large-Model AI Accelerator Chips Product and Services

Table 211. FuriosaAI, Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 212. FuriosaAI, Inc. Recent Developments/Updates

Table 213. FuriosaAI, Inc. Competitive Strengths & Weaknesses

Table 214. Moore Threads Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 215. Moore Threads Technology Co., Ltd. Major Business

Table 216. Moore Threads Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services

Table 217. Moore Threads Technology Co., Ltd. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 218. Moore Threads Technology Co., Ltd. Recent Developments/Updates

Table 219. Moore Threads Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 220. Shanghai Enflame Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 221. Shanghai Enflame Technology Co., Ltd. Major Business

Table 222. Shanghai Enflame Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services

Table 223. Shanghai Enflame Technology Co., Ltd. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 224. Shanghai Enflame Technology Co., Ltd. Recent Developments/Updates

Table 225. Shanghai Enflame Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 226. Kunlunxin Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 227. Kunlunxin Technology Co., Ltd. Major Business

Table 228. Kunlunxin Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services

Table 229. Kunlunxin Technology Co., Ltd. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross

Margin and Market Share (2021-2026)

Table 230. Kunlunxin Technology Co., Ltd. Recent Developments/Updates

Table 231. Kunlunxin Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 232. Shanghai Biren Intelligent Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 233. Shanghai Biren Intelligent Technology Co., Ltd. Major Business

Table 234. Shanghai Biren Intelligent Technology Co., Ltd. Large-Model AI Accelerator Chips Product and Services

Table 235. Shanghai Biren Intelligent Technology Co., Ltd. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 236. Shanghai Biren Intelligent Technology Co., Ltd. Recent Developments/Updates

Table 237. Shanghai Biren Intelligent Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 238. MetaX Integrated Circuits Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 239. MetaX Integrated Circuits Co., Ltd. Major Business

Table 240. MetaX Integrated Circuits Co., Ltd. Large-Model AI Accelerator Chips Product and Services

Table 241. MetaX Integrated Circuits Co., Ltd. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 242. MetaX Integrated Circuits Co., Ltd. Recent Developments/Updates

Table 243. MetaX Integrated Circuits Co., Ltd. Competitive Strengths & Weaknesses

Table 244. Iluvatar CoreX Basic Information, Manufacturing Base and Competitors

Table 245. Iluvatar CoreX Major Business

Table 246. Iluvatar CoreX Large-Model AI Accelerator Chips Product and Services

Table 247. Iluvatar CoreX Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 248. Iluvatar CoreX Recent Developments/Updates

Table 249. Iluvatar CoreX Competitive Strengths & Weaknesses

Table 250. Hailo Technologies Ltd. Basic Information, Manufacturing Base and Competitors

Table 251. Hailo Technologies Ltd. Major Business

Table 252. Hailo Technologies Ltd. Large-Model AI Accelerator Chips Product and Services

Table 253. Hailo Technologies Ltd. Large-Model AI Accelerator Chips Production

(Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 254. Hailo Technologies Ltd. Recent Developments/Updates

Table 255. Hailo Technologies Ltd. Competitive Strengths & Weaknesses

Table 256. SiMa.ai Basic Information, Manufacturing Base and Competitors

Table 257. SiMa.ai Major Business

Table 258. SiMa.ai Large-Model AI Accelerator Chips Product and Services

Table 259. SiMa.ai Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 260. SiMa.ai Recent Developments/Updates

Table 261. SiMa.ai Competitive Strengths & Weaknesses

Table 262. Axelera AI B.V. Basic Information, Manufacturing Base and Competitors

Table 263. Axelera AI B.V. Major Business

Table 264. Axelera AI B.V. Large-Model AI Accelerator Chips Product and Services

Table 265. Axelera AI B.V. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 266. Axelera AI B.V. Recent Developments/Updates

Table 267. Axelera AI B.V. Competitive Strengths & Weaknesses

Table 268. Etched AI Inc. Basic Information, Manufacturing Base and Competitors

Table 269. Etched AI Inc. Major Business

Table 270. Etched AI Inc. Large-Model AI Accelerator Chips Product and Services

Table 271. Etched AI Inc. Large-Model AI Accelerator Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 272. Etched AI Inc. Recent Developments/Updates

Table 273. Etched AI Inc. Competitive Strengths & Weaknesses

Table 274. Global Key Players of Large-Model AI Accelerator Chips Upstream (Raw Materials)

Table 275. Global Large-Model AI Accelerator Chips Typical Customers

Table 276. Large-Model AI Accelerator Chips Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Large-Model AI Accelerator Chips Picture

Figure 2. World Large-Model AI Accelerator Chips Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Large-Model AI Accelerator Chips Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Large-Model AI Accelerator Chips Production (2021-2032) & (Million Units)

Figure 5. World Large-Model AI Accelerator Chips Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Large-Model AI Accelerator Chips Production Value Market Share by Region (2021-2032)

Figure 7. World Large-Model AI Accelerator Chips Production Market Share by Region (2021-2032)

Figure 8. North America Large-Model AI Accelerator Chips Production (2021-2032) & (Million Units)

Figure 9. China Large-Model AI Accelerator Chips Production (2021-2032) & (Million Units)

Figure 10. South Korea Large-Model AI Accelerator Chips Production (2021-2032) & (Million Units)

Figure 11. Europe Large-Model AI Accelerator Chips Production (2021-2032) & (Million Units)

Figure 12. Israel Large-Model AI Accelerator Chips Production (2021-2032) & (Million Units)

Figure 13. Large-Model AI Accelerator Chips Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Large-Model AI Accelerator Chips Consumption (2021-2032) & (Million Units)

Figure 16. World Large-Model AI Accelerator Chips Consumption Market Share by Region (2021-2032)

Figure 17. United States Large-Model AI Accelerator Chips Consumption (2021-2032) & (Million Units)

Figure 18. China Large-Model AI Accelerator Chips Consumption (2021-2032) & (Million Units)

Figure 19. Europe Large-Model AI Accelerator Chips Consumption (2021-2032) & (Million Units)

Figure 20. Japan Large-Model AI Accelerator Chips Consumption (2021-2032) & (Million Units)

Figure 21. South Korea Large-Model AI Accelerator Chips Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN Large-Model AI Accelerator Chips Consumption (2021-2032) & (Million Units)

Figure 23. India Large-Model AI Accelerator Chips Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of Large-Model AI Accelerator Chips by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Large-Model AI Accelerator Chips Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Large-Model AI Accelerator Chips Markets in 2025

Figure 27. United States VS China: Large-Model AI Accelerator Chips Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Large-Model AI Accelerator Chips Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Large-Model AI Accelerator Chips Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Large-Model AI Accelerator Chips Production Market Share 2025

Figure 31. China Based Manufacturers Large-Model AI Accelerator Chips Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Large-Model AI Accelerator Chips Production Market Share 2025

Figure 33. World Large-Model AI Accelerator Chips Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Large-Model AI Accelerator Chips Production Value Market Share by Type in 2025

Figure 35. AI GPU

Figure 36. AI ASIC

Figure 37. NPU / XPU

Figure 38. TPU-like Accelerator

Figure 39. Other

Figure 40. World Large-Model AI Accelerator Chips Production Market Share by Type (2021-2032)

Figure 41. World Large-Model AI Accelerator Chips Production Value Market Share by Type (2021-2032)

Figure 42. World Large-Model AI Accelerator Chips Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Large-Model AI Accelerator Chips Production Value by Numerical Precision, (USD Million), 2021 & 2025 & 2032

Figure 44. World Large-Model AI Accelerator Chips Production Value Market Share by Numerical Precision in 2025

Figure 45. FP32 / TF32

Figure 46. BF16 / FP16

Figure 47. FP8

Figure 48. INT8

Figure 49. INT4 / FP4

Figure 50. Other

Figure 51. World Large-Model AI Accelerator Chips Production Market Share by Numerical Precision (2021-2032)

Figure 52. World Large-Model AI Accelerator Chips Production Value Market Share by Numerical Precision (2021-2032)

Figure 53. World Large-Model AI Accelerator Chips Average Price by Numerical Precision (2021-2032) & (US\$/Unit)

Figure 54. World Large-Model AI Accelerator Chips Production Value by Memory and Packaging, (USD Million), 2021 & 2025 & 2032

Figure 55. World Large-Model AI Accelerator Chips Production Value Market Share by Memory and Packaging in 2025

Figure 56. HBM-based Accelerator

Figure 57. GDDR-based Accelerator

Figure 58. DDR / LPDDR-based Accelerator

Figure 59. Other

Figure 60. World Large-Model AI Accelerator Chips Production Market Share by Memory and Packaging (2021-2032)

Figure 61. World Large-Model AI Accelerator Chips Production Value Market Share by Memory and Packaging (2021-2032)

Figure 62. World Large-Model AI Accelerator Chips Average Price by Memory and Packaging (2021-2032) & (US\$/Unit)

Figure 63. World Large-Model AI Accelerator Chips Production Value by Interconn

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