

Global Domain-Specific Accelerator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Domain-Specific Accelerator market size is expected to reach \$ 74902 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

A domain-specific accelerator is specialized computing hardware designed for specific algorithms, workloads, or industry scenarios. Its core purpose is to perform intensive computing tasks with higher parallelism, lower latency, better energy efficiency, and lower unit compute cost in large-model training, generative AI inference, visual perception, recommendation and search, scientific computing, autonomous driving, edge machine learning, and signal processing. Such products typically map high-frequency software operators into fixed or semi-fixed hardware paths through matrix arrays, tensor cores, dataflow architecture, reconfigurable logic, large on-chip SRAM, HBM, dedicated interconnects, and compiler stacks. Delivery forms include chips, accelerator cards, accelerator modules, complete systems, cloud service resources, and IP cores.

This report studies the global Domain-Specific Accelerator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Domain-Specific Accelerator total production and demand, 2021-2032, (Million Units)

Global Domain-Specific Accelerator total production value, 2021-2032, (USD Million)

Global Domain-Specific Accelerator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Domain-Specific Accelerator consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Domain-Specific Accelerator domestic production, consumption, key domestic manufacturers and share

Global Domain-Specific Accelerator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Domain-Specific Accelerator production by Delivery Form, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Domain-Specific Accelerator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Domain-Specific Accelerator 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 Google, Amazon Web Services, Microsoft, Meta, Intel, Qualcomm, AMD, NVIDIA, Cerebras, Groq, 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 Domain-Specific Accelerator 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 Delivery Form, 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 Domain-Specific Accelerator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Domain-Specific Accelerator Market, Segmentation by Delivery Form:

Chip

Accelerator Card

Accelerator Module

Complete System

IP Core

Global Domain-Specific Accelerator Market, Segmentation by Deployment Location:

Data Center

Edge Device

Automotive System

Terminal Device

Industrial Site

Global Domain-Specific Accelerator Market, Segmentation by Memory Configuration:

HBM Memory Accelerator

GDDR Memory Accelerator

LPDDR Memory Accelerator

Global Domain-Specific Accelerator Market, Segmentation by Application:

Large-Model Training

Generative AI Inference

Visual Perception Inference

Recommendation and Search Inference

Scientific Computing Acceleration

Signal Processing Acceleration

Companies Profiled:

Google

Amazon Web Services

Microsoft

Meta

Intel

Qualcomm

AMD

NVIDIA

Cerebras

Groq

Tenstorrent

SambaNova Systems

d-Matrix

SiMa.ai

Blaize

Hailo

FuriosaAI

Rebellions

Huawei

Cambricon

Horizon Robotics

Key Questions Answered:

1. How big is the global Domain-Specific Accelerator market?
2. What is the demand of the global Domain-Specific Accelerator market?
3. What is the year over year growth of the global Domain-Specific Accelerator market?
4. What is the production and production value of the global Domain-Specific Accelerator market?

5. Who are the key producers in the global Domain-Specific Accelerator market?
6. What are the growth factors driving the market demand?

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