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Global Data Center Accelerator Card Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Data Center Accelerator Card market size was valued at USD 1333.5 million in 2023 and is forecast to a readjusted size of USD 2059 million by 2030 with a CAGR of 6.4% during review period.

Modern data centers are being transformed to increase networking bandwidth and optimize workloads like artificial intelligence. Data center administrators also expect lower TCO, lower power, and new services. Data centers accelerators are helping customers meet these demands. The data centers accelerators facilitate a significant increase in the performance of these data centers. Moreover, due to resource sharing with the main processor, accelerators and general-purpose processors in data centers consume less power. The growing demand for AI in HPC data centers is driving the market growth. The growth in consumer-generated data and increasing use of AI-based services have propelled the demand for AI-centric data centers.

Data center is a key driver of this industry. Global data center market revenue is expected to reach $342 billion by 2023, up from $321 billion in 2022. The world has approximately 8,000 physical data centers as of 2022. The US has 2,701 data centers. The second country with the largest data center number is Germany, with 487 centers, followed by the UK (456), China (443), and Canada (328).

The Global Info Research report includes an overview of the development of the Data Center Accelerator Card industry chain, the market status of Deep Learning Training (HPC Accelerator, Cloud Accelerator), Public Cloud Interface (HPC Accelerator, Cloud Accelerator), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Data Center

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Accelerator Card.

Regionally, the report analyzes the Data Center Accelerator Card markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Data Center Accelerator Card market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Data Center Accelerator Card market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Data Center Accelerator Card industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., HPC Accelerator, Cloud Accelerator).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Data Center Accelerator Card market.

Regional Analysis: The report involves examining the Data Center Accelerator Card market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Data Center Accelerator Card market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Data Center Accelerator Card:

Company Analysis: Report covers individual Data Center Accelerator Card

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manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Data Center Accelerator Card This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Deep Learning Training, Public Cloud Interface).

Technology Analysis: Report covers specific technologies relevant to Data Center Accelerator Card. It assesses the current state, advancements, and potential future developments in Data Center Accelerator Card areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Data Center Accelerator Card market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Data Center Accelerator Card market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

HPC Accelerator

Cloud Accelerator

Market segment by Application

Deep Learning Training

Public Cloud Interface

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Enterprise Interface

Major players covered

Intel

Xilinx

Nallatech (Molex)

Nvidia

Skyworks

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 Data Center Accelerator Card product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center Accelerator Card, with price, sales, revenue and global market share of Data Center Accelerator Card from 2019 to 2024.

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

Chapter 4, the Data Center Accelerator Card breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023.and Data Center Accelerator Card market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Data Center Accelerator Card.

Chapter 14 and 15, to describe Data Center Accelerator Card sales channel, distributors, customers, research findings and conclusion.

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