

Global Data Center Accelerator Market Set to Grow at 25.0% CAGR, Reaching 130.31 Billion By 2030 | Emergen Research

Growing focus on parallel computing in Artificial Intelligence (AI) data centers is a key factor driving data center accelerator market revenue growth

VANCOUVER, BC, CANADA, May 8, 2023 /EINPresswire.com/ -- The global [data center accelerator market](#) size was USD 17.89 Billion in 2021 and is expected to register a revenue CAGR of 25.0% during the forecast period, according to latest analysis by Emergen

Research. Growing focus on parallel computing in Artificial Intelligence (AI) data centers, rising number of data center facilities globally, increasing data traffic, increasing use of deep learning technology in big data analytics, and rising demand for consumer-driven data and application performance enhancement are some of the key factors driving market revenue growth.

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Data Center Accelerator Market Size – USD 17.89 Billion in 2021, Market Growth – at a CAGR of 25.0%, Market Trends – Increasing use of deep learning technology in big data analytics

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Operators are rapidly exploring and investing in Research & Development (R&D) for cutting-edge solutions to improve various data-driven operations, such as deep learning and Natural Language Processing (NLP), since data centers are overflowing with ever-increasingly massive amounts of data. In addition, demand for data center accelerators is rising because of growing cloud computing and cloud-based services, as well as an increase in number of data centers housing numerous servers and significant quantity of storage. Moreover, increasing growth of the market is mostly owing to rising demand for high-performance hardware accelerators in data center processors used in applications including deep learning,

object recognition and identification, picture classification, and NLP. On 28 June 2021, Qualcomm Technologies, Inc. introduced a new unit accelerator card, Qualcomm 5G DU X100 Accelerator Card in its 5G RAN Platforms line. Qualcomm 5G DU X100 is intended to help operators and infrastructure providers quickly to realize benefits of 5G's high performance, low latency, and power efficiency, while also fastening cellular ecosystem's shift towards virtualized radio access networks. Furthermore, high demand for handling rising data and complex computations by data centers with reduced power as well as comparatively higher performance is also driving revenue growth of the market.

However, factors such as high electricity consumption by data centers in addition to complexity and unreliability of AI mechanisms, are expected to provide some restraints for market growth. Moreover, requirement for highly specialized infrastructure can lead to overheating and faulty conditions if unmonitored.

To gain genuine analysis and a thorough understanding of the market, interested parties can request a sample of the report. <https://www.emergenresearch.com/request-sample/1392>

(The report sample includes a brief introduction to the research report, a table of contents, a graphical presentation of regional analysis, a revenue analysis of the top players in the market, and a detailed explanation of the research methodology.)

The sample report we provide may consist of the following elements:

An introduction to the updated report for the year 2030, including a comprehensive overview and in-depth industry analysis.

A 250+ page research report with updated research findings.

Chapter-wise guidance available upon request.

Updated regional analysis for the year 2023, presented with graphical representations of size, share, and trends.

An updated list of tables and figures included in the report.

The updated report includes a list of top market players, along with their business strategy, sales volume, and revenue analysis.

Important information in the market study

The research offers thorough analysis and futuristic insights into the industry in several different regions. See how the most important regional growth drivers and restraints will affect market development and gain a grasp of uncertainty.

In order to understand how the demand across various segments will change over the following few years, evaluate market size statistics and projections. Get a thorough understanding of new market trends and developments to evaluate market prospects.

□ Learn more about the competition by having access to in-depth data and research on important industry players.

NVIDIA Corporation, Advanced Micro Devices, Inc., Intel Corporation, Micron Technology, Inc., Marvell, Qualcomm Technologies, Inc., IBM, Google, Fujitsu, and Dell, Inc

Data Center Accelerator Market – Segmentation Assessment

Processor Type Outlook (Revenue, USD Billion; 2019-2030)

Graphics Processing Unit (GPU)

Central Processing Unit (CPU)

Field Programmable Gate Array (FPGA)

Application Specific Integrated Circuit (ASIC)

Type Outlook (Revenue, USD Billion; 2019-2030)

Cloud data center

High-Performance Computing (HPC) data center

Application Outlook (Revenue, USD Billion; 2019-2030)

Deep learning training

Enterprise inference

Public cloud inference

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Regional Analysis:

» North America: United States, Canada, and Mexico

» South & Central America: Argentina, Chile, Brazil and Others

» Middle East & Africa: Saudi Arabia, UAE, Israel, Turkey, Egypt, South Africa & Rest of MEA.

» Europe: UK, France, Italy, Germany, Spain, BeNeLux, Russia, NORDIC Nations and Rest of Europe.

» Asia-Pacific: India, China, Japan, South Korea, Indonesia, Thailand, Singapore, Australia and Rest of APAC.

High point the Following Key Factors:

Business description: A detailed overview of the company's operations and business departments.

Company strategy: A summary of the company's business strategy provided by the analyst.

SWOT analysis: A detailed analysis of the company's strengths, weaknesses, opportunities, and threats.

Company history: A summary of major events related to the company's progress.

Main products and services: A list of the company's main products, services, and brands.

Main competitors: A list of the company's main competitors.

Important locations and subsidiaries: A list of the company's main locations and subsidiaries with contact information.

Detailed financial ratios of the past five years: Latest financial ratios obtained from the annual financial statements of companies with a history of five years.

The Emergen Research study is expected to provide the following benefits:

Latest industry trends and development scenario for 2023

Identification of powerful market opportunities to help with market sizing

Key decision-making insights for planning and expanding market share

Identification of key business segments, market proposition, and gap analysis

Assistance in allocating marketing investments

Updated methodology from Emergen Research to ensure accurate and reliable findings.

Global Data Center Accelerator Market Definition and Scope

2.1. Objective of the Study

2.2. Market Definition & Scope

2.2.1. Scope of the Study

2.2.2. Industry Evolution

2.3. Years Considered for the Study

2.4. Currency Conversion Rates

Global Data Center Accelerator Market Dynamics

3.1. Data Center Accelerator Market Impact Analysis (2020-2030)

3.1.1. Market Drivers

3.1.2. Market Challenges

3.1.3. Market Opportunities

Global Data Center Accelerator Market Industry Analysis

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's 5 Force Model (2020-2030)

4.2. PEST Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

4.3. Investment Adoption Model

4.4. Analyst Recommendation & Conclusion

□ What is the primary factor driving the global Data Center Accelerator market?

□ What are the market's restricting factors?

□ Who are the major market participants?

□ Which region has the greatest market share?

□ What are the most current global Data Center Accelerator market trends?

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