

# Data Center Accelerator Market: Trends, Opportunities and Competitive Analysis [2023-2028]

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## Abstracts

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### Data Center Accelerator Market Trends and Forecast

The future of the data center accelerator market looks promising with opportunities in the deep learning training, public cloud interface, and enterprise interface applications. The global data center accelerator market is expected to reach an estimated \$45.2 billion by 2028 with a CAGR of 17.1% from 2023 to 2028. The major drivers for this market are escalating demand for cloud-based services, growing requirement for customer-driven data among industries, and increasing adoption of internet of things, big data analytics, and artificial intelligence across the globe.

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### Data Center Accelerator Market by Segment

The study includes a forecast for the global data center accelerator market by processor, product type, application, and region, as follows:

Data Center Accelerator Market by Processor [Shipment Analysis by Value from 2017 to 2028]:

GPU

CPU

FPGA

ASIC

Data Center Accelerator Market by Product Type [Shipment Analysis by Value from 2017 to 2028]:

HPC Data Center

Cloud Data Center

Data Center Accelerator Market by Application [Shipment Analysis by Value from 2017 to 2028]:

Deep Learning Training

Public Cloud Interface

Enterprise Interface

Data Center Accelerator Market by Region [Shipment Analysis by Value from 2017 to 2028]:

North America

Europe

Asia Pacific

The Rest of the World

List of Data Center Accelerator Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies data center accelerator companies cater to increasing demand, ensure competitive effectiveness, develop innovative products & technologies,

reduce production costs, and expand their customer base. Some of the data center accelerator companies profiled in this report include:

Advanced Micro Devices

NVIDIA

Intel

Qualcomm Technologies

Advantech

Achronix Semiconductor

Micron Technology

## Data Center Accelerator Market Insights

Lucintel forecasts that GPU is expected to witness highest growth over the forecast period due to its considerable application in financial modelling, pharmacological research, training and inference for AI, medical imaging, and supercomputing.

Deep learning training is expected to remain the largest segment due to its widespread use in the automotive industry like self-driving vehicles, speech recognition, image recognition, text categorization, and insurance claim cost estimation.

North America will remain the largest region due to the existence of well-established technological and data center infrastructure, presence of key players, and growing number of hyperscale data centers in the region.

## Features of the Data Center Accelerator Market

Market Size Estimates: Data center accelerator market size estimation in terms of value (\$B)

Trend And Forecast Analysis: Market trends (2017-2022) and forecast (2023-2028) by various segments and regions.

**Segmentation Analysis:** Data center accelerator market size by various segments, such as by processor, product type, application, and region

**Regional Analysis:** Data center accelerator market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

**Growth Opportunities:** Analysis on growth opportunities in different by processor, product type, application, and regions for the data center accelerator market.

**Strategic Analysis:** This includes M&A, new product development, and competitive landscape for the data center accelerator market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

## FAQ

Q1. What is the data center accelerator market size?

Answer: The global data center accelerator market is expected to reach an estimated \$45.2 billion by 2028.

Q2. What is the growth forecast for data center accelerator market?

Answer: The global data center accelerator market is expected to grow with a CAGR of 17.1% from 2023 to 2028.

Q3. What are the major drivers influencing the growth of the data center accelerator market?

Answer: The major drivers for this market are escalating demand for cloud-based services, growing requirement for customer-driven data among industries, and increasing adoption of internet of things, big data analytics, and artificial intelligence across the globe.

Q4. What are the major segments for data center accelerator market?

Answer: The future of the data center accelerator market looks promising with opportunities in the deep learning training, public cloud interface, and enterprise interface applications.

Q5. Who are the key data center accelerator companies?

Answer: Some of the key data center accelerator companies are as follows:

Advanced Micro Devices

NVIDIA

Intel

Qualcomm Technologies

Advantech

Achronix Semiconductor

Micron Technology

Q6. Which data center accelerator segment will be the largest in future?

Answer: Lucintel forecasts that GPU is expected to witness highest growth over the forecast period due to its considerable application in financial modelling, pharmacological research, training and inference for AI, medical imaging, and supercomputing.

Q7. In data center accelerator market, which region is expected to be the largest in next 5 years?

Answer: North America will remain the largest region due to the existence of well-established technological and data center infrastructure, presence of key players, and growing number of hyperscale data centers in the region.

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Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1. What are some of the most promising, high-growth opportunities for the data center accelerator market by processor (GPU, CPU, FPGA, and ASIC), product type (HPC data center and cloud data center), application (deep learning training, public cloud interface, and enterprise interface), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

For any questions related to data center accelerator market or related to data center accelerator companies, data center accelerator market size, data center accelerator market share, data center accelerator analysis, write Lucintel analyst at email: [helpdesk@lucintel.com](mailto:helpdesk@lucintel.com) we will be glad to get back to you soon.

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