

# Global Data Center Accelerator Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Data Center Accelerator market size will reach 20,962 Million USD in 2025 and is projected to reach 90,509 Million USD by 2032, with a CAGR of 23.24% (2025-2032). Notably, the China Data Center Accelerator market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A data center accelerator, also known as a hardware accelerator or data processing unit (DPU), is a specialized computing device designed to offload and accelerate specific tasks or workloads in a data center environment. It is typically used to improve the performance and efficiency of data-intensive operations, such as artificial intelligence (AI), machine learning (ML), data analytics, encryption, and networking. Data center accelerators are purpose-built with specialized hardware and architecture optimized for specific tasks, allowing them to perform these tasks much faster and more efficiently than traditional general-purpose CPUs. By offloading these workloads from the CPU to dedicated accelerators, data centers can achieve higher performance, reduce power consumption, and improve overall data processing capabilities, making them crucial components in modern data centers that handle large-scale data processing and computation requirements.

The major global manufacturers of Data Center Accelerator include Nvidia, Intel, Alphabet (Google), Advanced Micro Devices, Achronix Semiconductor, Xilinx,

Qualcomm, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Data Center Accelerator. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Data Center Accelerator market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Data Center Accelerator market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Data Center Accelerator industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Data Center Accelerator Include:

Nvidia

Intel

Alphabet (Google)

Advanced Micro Devices

Achronix Semiconductor

Xilinx

Qualcomm

Data Center Accelerator Product Segment Include:

GPU

CPU

FPGA

ASIC

Data Center Accelerator Product Application Include:

Deep Learning Training

HPC

Others

## **Chapter Scope**

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