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Global Data Center Solutions Market Size study & Forecast, by Infrastructure (IT (Server, Storage, Network)), Power (Generator, UPS, Switchgear, PDU, Switchboard), Cooling (CRAC & CRAH, Chiller, Heat Exchanger, CDU), Rack (Enclosed, Open Frame), Software (DCIM, BMS) and Regional Forecasts 2025-2035

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Abstracts

The Global Data Center Solutions Market is valued approximately at USD 375.02 billion in 2024 and is poised to grow at a CAGR of 19.70% over the forecast period 2025-2035. Data Center Solutions represent a comprehensive ecosystem of technologies and services that enable enterprises to process, store, and safeguard massive volumes of digital information while maintaining operational resilience. This includes infrastructure ranging from high-performance servers and storage arrays to advanced cooling systems, power management frameworks, and next-generation software-defined architectures. The rapid proliferation of cloud computing, edge data processing, and the exponential surge in global internet traffic have catalyzed the need for scalable and energy-efficient data centers. Businesses are increasingly adopting these solutions to not only modernize their IT infrastructure but also to support the relentless demand for data availability, cybersecurity, and regulatory compliance. The growing penetration of 5G, AI-driven analytics, and IoT devices continues to expand the market's horizons, while sustainability mandates are reshaping investment priorities toward green data center solutions.

The accelerating pace of digital transformation across industries has amplified demand for robust and adaptive data center ecosystems. Organizations are compelled to deploy advanced solutions that can support hybrid IT models, mitigate downtime risks, and

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optimize energy efficiency while managing explosive data growth. According to industry estimates, global data creation is projected to surpass 180 zettabytes by 2025, significantly straining existing infrastructure and driving investments into next-generation facilities. The market is further bolstered by hyperscale cloud providers aggressively expanding their capacity and enterprises seeking to decentralize workloads closer to end-users for latency reduction. However, high initial capital expenditure, coupled with the volatility of energy costs and growing pressure around carbon emissions, continues to challenge operators. Despite these hurdles, the integration of AI-driven management systems, modular data center deployments, and innovative cooling technologies present compelling opportunities over the forecast horizon.

The detailed segments and sub-segments included in the report are:

By Infrastructure:

IT (Server, Storage, Network)

By Power:

Generator

UPS

Switchgear

PDU

Switchboard

By Cooling:

CRAC & CRAH

Chiller

Heat Exchanger

CDU

By Rack:

Enclosed

Open Frame

By Software:

DCIM

BMS

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

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Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Among these, the IT infrastructure segment is anticipated to dominate the market, primarily due to the centrality of servers, storage, and networking systems in ensuring operational efficiency of data centers. The rising adoption of AI workloads, blockchain applications, and cloud-native services has heightened the demand for high-capacity computing and storage solutions. Enterprises are increasingly investing in AI-optimized processors, flash-based storage, and advanced networking technologies to manage growing digital workloads with minimal latency. This surge in adoption positions IT infrastructure as the backbone of the data center solutions ecosystem, capturing the lion's share of the market throughout the forecast horizon.

In terms of revenue contribution, the Power segment leads, driven by the indispensable role of generators, UPS systems, and PDUs in ensuring uninterrupted operations. With the average cost of downtime in critical facilities surpassing hundreds of thousands of dollars per hour, organizations are prioritizing resilient power backup systems to mitigate risks. Data centers are increasingly integrating intelligent UPS systems, energy-efficient switchgears, and advanced monitoring solutions to improve reliability while curbing energy wastage. Although cooling technologies are gaining traction with sustainability initiatives, power infrastructure remains the primary revenue driver given its non-negotiable role in maintaining service continuity across global data centers.

Geographically, North America held the largest share of the market in 2025, owing to its concentration of hyperscale cloud providers, early adoption of cutting-edge technologies, and robust IT infrastructure investments. The region's emphasis on AI-driven applications, autonomous vehicles, and fintech ecosystems has further reinforced its dominance in data center solutions. Meanwhile, Asia Pacific is emerging as the fastest-growing region, propelled by explosive internet penetration, industrial digitalization, and strong government-backed initiatives in countries like China and India. Europe continues to invest heavily in green and modular data centers in response to stringent sustainability targets, while Latin America and the Middle East are unlocking new opportunities through digital transformation initiatives and increasing enterprise cloud adoption.

Major market players included in this report are:

IBM Corporation

Cisco Systems Inc.

Hewlett Packard Enterprise Development LP

Dell Technologies Inc.

Schneider Electric SE

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Fujitsu Ltd.

Huawei Technologies Co., Ltd.

Equinix, Inc.

Digital Realty Trust, Inc.

Vertiv Holdings Co.

Oracle Corporation

Microsoft Corporation

Siemens AG

Eaton Corporation Plc

Amazon Web Services, Inc.

Global Data Center Solutions Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional-level analysis for each market segment.
- Detailed analysis of the geographical landscape with country-level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of the competitive structure of the market.
- Demand side and supply side analysis of the market.

Contents

CHAPTER 9. GLOBAL DATA CENTER SOLUTIONS MARKET SIZE & FORECASTS BY SOFTWARE 2025–2035

CHAPTER 10. GLOBAL DATA CENTER SOLUTIONS MARKET SIZE & FORECASTS BY REGION 2025–2035

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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