

Data Center Support Infrastructure Market Size, Share & Trends Analysis Report By Infrastructure (Power Distribution Systems, Cooling Systems), By Enterprise Size, By Tier Level (Tier 1, Tier 2), By End Use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

This report can be delivered to the clients within 4 Business Days

Market Size & Trends

The global data center support infrastructure market size was valued at USD 57.94 billion in 2024 and is anticipated to grow at a CAGR of 8.2% from 2025 to 2030. The industry encompasses critical components such as power systems (UPS, generators), cooling systems, racks, monitoring systems, and Racks and Enclosures solutions. These elements ensure the operational reliability, efficiency, and Racks and Enclosures of data centers.

The rapid adoption of cloud services, big data analytics, internet of things (IoT), and AI-driven Tier Levels is transforming the technology landscape. Organizations across industries are migrating their workloads to the cloud, leveraging its scalability, cost efficiency, and flexibility. This surge in demand for cloud computing fuels the need for robust data centers capable of handling massive volumes of data and ensuring uninterrupted services. To support these operations, data centers require advanced support infrastructure, including efficient cooling systems to manage heat from high-density servers, reliable power backup systems to prevent downtime, and intelligent management solutions for optimal performance and energy utilization. This trend drives continuous innovation and investment in Tier 3, enabling businesses to meet growing digital demands and ensure seamless operations in an increasingly data-driven

world.

Hyperscale data centers cater to large-scale cloud operations, offering extensive Power Distribution Systems and computational capabilities, while edge data centers provide localized, low-latency services for real-time Tier Levels like IoT and 5G. The rise of these facilities has created a need for scalable and modular infrastructure to accommodate rapid growth and evolving technology demands. Hyperscale data centers require optimized cooling and power systems to manage high-density workloads, ensuring efficiency and reliability. Edge data centers, on the other hand, emphasize compact and flexible solutions to support deployment in remote or distributed locations. Together, these developments are transforming the data center landscape, driving innovation in infrastructure to meet the diverse and growing demands of modern digital ecosystems.

The integration of artificial intelligence (AI) and machine learning in monitoring and management systems is expected to revolutionize operational efficiency and predictive maintenance capabilities. Liquid cooling solutions, driven by increasing server densities and energy efficiency requirements, are anticipated to gain substantial traction. The shift toward renewable energy sources and the adoption of battery energy Power Distribution Systems highlights the market's focus on sustainability. The growing demand for edge data centers, coupled with the rise of Industry 4.0 Tier Levels, presents new growth opportunities. Furthermore, the adoption of modular data centers and flexible infrastructure solutions will enable faster deployment and scalability. Emerging markets, particularly in Asia Pacific and MEA, are likely to play a pivotal role in market expansion, supported by digital transformation initiatives and economic development.

Despite strong growth prospects, the market faces notable restraints. High initial capital expenditures for deploying advanced support infrastructure pose challenges, particularly for small and medium-sized enterprises (SMEs). Additionally, the complex integration of modern solutions such as AI-driven monitoring systems and liquid cooling technologies with existing infrastructure can deter adoption. Rising energy costs and ongoing operational expenses for managing power and cooling systems are also significant concerns for operators aiming to maintain profitability.

Global Data Center Support Infrastructure Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018

2030. For this study, Grand View Research has segmented the global data center support infrastructure market report based on Infrastructure, tier level, enterprise size, end use and region.

Infrastructure Outlook (Revenue, USD Million, 2018 - 2030)

Power Distribution Systems

Cooling Systems

Racks and Enclosures

Site and Facility Infrastructure

Security Systems

Tier Level Outlook (Revenue, USD Million, 2018 - 2030)

Tier 1

Tier 2

Tier 3

Tier 4

Enterprise Size Outlook (Revenue, USD Million, 2018 - 2030)

Large Enterprise

Small & Medium Sized Enterprises

End Use Outlook (Revenue, USD Million, 2018 - 2030)

Cloud Service Provider

Technology Provider

Telecom

Healthcare

BFSI

Retail & E-commerce

Entertainment & Media

Energy

Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

U.K.

France

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Middle East & Africa

U.A.E

Saudi Arabia

South Africa

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