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Modular Data Center Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Component (Services (All-in-one Module, Individual Module (IT, Power, and Cooling)), Solutions (Design and Consulting, Integration and Deployment, and Maintenance & Support)), By Organization Size (SMEs, Large Enterprises) By Industry Vertical (IT & Telecom, BFSI, Media & Entertainment, Government & Defense, Healthcare, Retail, and Others), By Region and Competition

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Abstracts

Global modular data center market is predicted to proliferate during the forecast period due to the rapid adoption of cloud and digital transformation by the enterprises to meet the need for growing business. The demand for energy-efficient data centers to improve business continuity is a significant factor in the market's expansion. In addition, the growing adoption of edge computing and increasing demand for modular data centers in various industries are propelling the growth of modular data center in the global market. Furthermore, modular data centers offer several advantages over traditional data centers, such as scalability, flexibility, and ease of deployment, therefore, the demand for enabling in the enterprise are growing rapidly and are attributed to the growth of global modular data center market in the forecasting period.

A self-contained computing infrastructure that can be quickly set up and scaled up is known as a modular data center. It has servers, storage, networking, cooling, and power systems in standardized modules. These prefabricated modules are ideal for

immediate computing requirements, disaster recovery, and remote environments due to their ease of transportation and installation. With the ability to add modules as needed, modular data centers provide enhanced security, flexibility, and energy efficiency. For businesses that need agile data center capabilities, they offer a simple and affordable solution.

Rapid Adoption of Cloud and Digital Transformation by Companies

The rapid growing digital journey across the globe is showcasing a remarkable pace since the adoption of cloud computing technologies by the enterprises. Due to the rapid pace of technological advancement, various countries are rapidly harnessing digital technologies to reap significant economic benefits in the long run. Many cloud service providers such as Microsoft, Amazon Web Services (AWS), and Huawei Cloud among other services across the world have revealed availability zones (AZs) to support high availability (HA), while maintaining low latency. Large enterprises such as Google Cloud Platform (GCP), Oracle, and many more has announced their plans to setup cloud region in the various underdeveloped countries which has attracted many new data centers such as Google, Alibaba Group, Amazon Web Services (AWS), and Microsoft Corporation to maiden facilities globally. For instance, as per the Dutch Server center association, 80% of data center in the Netherlands utilize green power. This intends that no less than 20% of Dutch data center are still generally dependent on petroleum products. The efficient power energy utilized is frequently 'light green' power ('confirmed power') and doesn't come from manageable power age in the Netherlands. Just a small piece of the power supply for server farms is 'dull green,' implying that it is produced reasonably in the Netherlands. There is still a ton of work to be finished, especially considering the Environment Accord and the goals of the Dutch Environment Act, in particular the near destruction of ozone harming substances and CO2 impartial power age in this country by 2050. Moreover, the development of 5G infrastructure, AI, robots, and the explosion in data-intensive industries like edge computing and the Internet of Things (IoT) have full support of the Indonesian government. All these industries produce massive volumes of data, the majority of which must go through some sort of data center. While most of the large enterprises already accelerated cloud adoption, medium-sized companies and small companies have also embarked on their cloud journey. Not only the private sector, but the government is also aiming to accelerate cloud adoption in the region.

Moreover, to keep ahead of the curve, government organizations have provided several grants and incentives to assist guide the rise of digitalization. With the use of cloud and digital technologies, all these businesses create enormous amounts of data, the bulk of

which needs a particular type of data center. The need for cloud computing is also being fueled by the fact that many businesses now allow remote workers, and as cloud-managed services are an essential component of digital transformation, their demand is expected to increase in the coming years. Therefore, the rapid adoption of cloud and digital transformation by companies are attributed to the growth of global modular data center market.

The Growing Inclination towards IoT are Proliferating the Modular Data Center Growth

The internet of things (IoT) is emerging as a prominent way to enable modular data center to become more reliable, efficient, secure that are driving the growth of the modular data center in the global market. Businesses are increasingly seeking to adopt IoT devices with more innovative ways to use IoT to improve the efficiency, reliability, and security of modular data centers and offer better customer experience. Service providers are offering an advanced IoT to monitor the power usage, ensuring the temperature and humidity within its optimal temperature range. This is making modular data centers a more attractive option for businesses that need to deploy data centers in remote or challenging locations. In addition, IoT devices generate a lot of data, which needs to be stored and processed in a secure and reliable environment to create long-term value for the business. Due to this, enterprises are integrating IoT to effectively enhance the applications and industrial equipment in several ways. Moreover, modular data centers can be deployed quickly and easily, and are made up of standardized components that can be easily replaced. This in turn is raising the growing inclination towards IoT is proliferating the growth of global modular data center market in the forecast period.

Growing Use of Renewable Energy

While the data centers are fueling global digital transformation journey, many data center service providers have invested in clean and renewable energy sources to run their existing and future facilities because of the rising data center power usage and the desire to reduce carbon footprint. Modular data centers can consume large amounts of energy if not planned well. Modular data centers are more energy-efficient than traditional data centers as they can be designed to meet the specific needs of the application. According to central electricity agency (CEA), around 42.5 percent of the energy generation is done through renewable sources, such as wind power, solar power, hydropower, and biomass energy in India. In addition, the growth is contributing to the increase of 10.8 percent in energy generation in the country. Moreover, Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM KUSUM) and Draft

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National Energy Policy both call for the Net Zero Emissions by 2070 to be implemented in order to fully use the country's potential for renewable energy. There is a growing demand for energy-efficient data centers due to the increasing cost of energy and the need to reduce carbon emissions. Furthermore, the Government of India has also taken the Production Linked Incentive Scheme (PLI) initiative to strengthen the industrial sector and increase the production of raw materials for renewable energy. Furthermore, government initiative towards proliferating the large-scale projects to adopt and support renewable energy are also promoting the adoption of modular data centers. The US government has launched the 'Data Center Optimization Initiative' to help federal agencies reduce their data center costs and improve their energy efficiency. Given that the Indian data center industry is still in the developing stage, the industrial sector is more adaptable to green technologies. Besides this, the country may strengthen its position as a worldwide hub for green data centres. Therefore, the increasing demand for growing use of renewable energy is increasing rapidly and is attributed to the growth of the global modular data center market in the forecast period.

Market Segmentation

Based on component, the market is segmented into services and solutions. Based on service, the market is bifurcated into all-in-one module and individual module. The individual module is further bifurcated into IT, power, and cooling. Based on solutions, the market is segmented into design and consulting, integration and deployment, and maintenance & support. Based on organization size, the market is further divided into SMEs and large enterprises. Based on industry vertical, the market is further divided into IT & telecom, BFSI, media & entertainment, government & defense, healthcare, retail, and others.

Company Profiles

IBM Corporation, Schneider Electric SE, Huawei Technologies Co. Ltd, Hewlett Packard Enterprise Development LP, Dell EMC (Dell Technologies), Vertiv Co., Cannon Technologies Ltd, Rittal Gmbh & Co. KG, Baselayer Technology LLC, and Bladeroom Group Ltd. are among the major players that are driving the growth of the global modular data center market.

Report Scope:

In this report, the global modular data center market has been segmented into the following categories, in addition to the industry trends which have also been detailed

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below:

Modular Data Center Market, By Component:

Services

All-in-one Module

Individual Module

IT

Power

Cooling

Solutions

Design and Consulting

Integration and Deployment

Maintenance & Support

Modular Data Center Market, By Organization Size:

SMEs

Large Enterprises

Modular Data Center Market, By Industry Vertical:

IT & Telecom

BFSI

Media & Entertainment

Government & Defense

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Healthcare

Retail

Others

Modular Data Center Market, By Region:

Asia-Pacific

- China
- Japan
- India
- Australia
- South Korea

North America

- United States
- Canada
- Mexico

Europe

- United Kingdom
- Germany
- France
- Spain

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- Italy
- Middle East & Africa
  - Israel
  - Qatar
  - Saudi Arabia
  - UAE
- South America
  - Brazil
  - Argentina
  - Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global modular data center market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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