

Modular Data Center Market Report by Component (Solutions, Services), Data Center Size (Small and Medium-sized Data Centers, Large Data Centers), Application (Disaster Backup, High Performance/ Edge Computing, Data Center Expansion, Starter Data Centers), Industry Vertical (BFSI, IT and Telecom, Retail and Manufacturing, Healthcare, Energy, Media and Entertainment, Government and Defense, and Others), and Region 2024-2032

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Abstracts

The global modular data center market size reached US\$ 28.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 93.3 Billion by 2032, exhibiting a growth rate (CAGR) of 13.6% during 2024-2032.

The modular data center is a portable data processing system with individual purpose-engineered modules and components that are assembled at the site of deployment. The individual units vary in scale, load capacity, configuration and cooling and management system. Modular data centers can be shipped, integrated or retrofitted into prefabricated data systems or combined into multiple modules. They operate independently without sharing resources and are commonly used for disaster backup, edge computing, power distribution and data center expansion. In comparison to the traditionally used data centers, they are highly scalable, energy-efficient, standardized, stable and environment-friendly. As a result, they find extensive application across various industries, such as banking, financial services and insurance (BFSI), transportation, information technology (IT), healthcare and entertainment.

Global Modular Data Center Market Trends:

Significant growth in the information technology (IT) industry across the globe is one of the key factors creating a positive outlook for the market. Moreover, the widespread adoption of cloud computing solutions across medium- and large-scale organizations is providing a thrust to the market growth. Enterprises are increasingly deploying micro modular data centers with advanced 5G cell towers for improved network connectivity and enhanced data storage capabilities. In line with this, the advent of the work-from-home (WFH) trend due to the onset of the Covid-19 pandemic has led to the increasing demand for modular data centers for remote storage and access of organizational data. Additionally, various technological advancements, such as the development of power-efficient, compact, easy to deploy green data centers with minimal carbon footprint, are acting as other growth-inducing factors. These units can also be integrated with the Internet of Things (IoT) and automation systems for enhanced operational efficiency. Other factors, including significant improvements in the telecommunication infrastructure, along with extensive research and development (R&D) activities, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global modular data center market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component, data center size, application, and industry vertical.

Breakup by Component:

Solutions

All-in-One Module

Individual Module

Services

Design and Consulting

Integration and Deployment

Support and Maintenance

Breakup by Data Center Size:

Small and Medium-sized Data Centers

Large Data Centers

Breakup by Application:

Disaster Backup

High Performance/ Edge Computing

Data Center Expansion

Starter Data Centers

Breakup by Industry Vertical:

BFSI

IT and Telecom

Retail and Manufacturing

Healthcare

Energy

Media and Entertainment

Government and Defense

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BASELAYER Technology LLC (Intermountain Electronics Inc.), Cannon Technologies Ltd, Dell Technologies Inc., Eaton Corporation plc, Hewlett Packard Enterprise Development LP, Huawei Technologies Co. Ltd., International Business Machines Corporation, Rittal GmbH & Co. KG, Schneider Electric SE and Vertiv Group Corp.

Key Questions Answered in This Report

1. What was the size of the global modular data center market in 2023?
2. What is the expected growth rate of the global modular data center market during 2024-2032?
3. What are the key factors driving the global modular data center market?
4. What has been the impact of COVID-19 on the global modular data center market?
5. What is the breakup of the global modular data center market based on the component?
6. What is the breakup of the global modular data center market based on the data center size?
7. What is the breakup of the global modular data center market based on the

application?

8. What is the breakup of the global modular data center market based on the industry vertical?

9. What are the key regions in the global modular data center market?

10. Who are the key players/companies in the global modular data center market?

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