

Modular Data Center Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global modular data center market size reached US\$ 24.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 60.0 Billion by 2028, exhibiting a growth rate (CAGR) of 15.86% during 2022-2028.

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 2023-2028. 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 2022?
2. What is the expected growth rate of the global modular data center market during 2023-2028?
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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL MODULAR DATA CENTER MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY COMPONENT

- 6.1 Solutions
 - 6.1.1 Market Trends
 - 6.1.2 Key Segments
 - 6.1.2.1 All-in-One Module
 - 6.1.2.2 Individual Module
 - 6.1.3 Market Forecast
- 6.2 Services

- 6.2.1 Market Trends
- 6.2.2 Key Segments
 - 6.2.2.1 Design and Consulting
 - 6.2.2.2 Integration and Deployment
 - 6.2.2.3 Support and Maintenance
- 6.2.3 Market Forecast

7 MARKET BREAKUP BY DATA CENTER SIZE

- 7.1 Small and Medium-sized Data Centers
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Large Data Centers
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Disaster Backup
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 High Performance/ Edge Computing
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Data Center Expansion
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Starter Data Centers
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast

9 MARKET BREAKUP BY INDUSTRY VERTICAL

- 9.1 BFSI
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 IT and Telecom
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast

9.3 Retail and Manufacturing

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Healthcare

9.4.1 Market Trends

9.4.2 Market Forecast

9.5 Energy

9.5.1 Market Trends

9.5.2 Market Forecast

9.6 Media and Entertainment

9.6.1 Market Trends

9.6.2 Market Forecast

9.7 Government and Defense

9.7.1 Market Trends

9.7.2 Market Forecast

9.8 Others

9.8.1 Market Trends

9.8.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

10.2 Asia-Pacific

10.2.1 China

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 Japan

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 India

10.2.3.1 Market Trends

10.2.3.2 Market Forecast

10.2.4 South Korea

- 10.2.4.1 Market Trends
- 10.2.4.2 Market Forecast
- 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
- 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends

10.4.2.2 Market Forecast

10.4.3 Others

10.4.3.1 Market Trends

10.4.3.2 Market Forecast

10.5 Middle East and Africa

10.5.1 Market Trends

10.5.2 Market Breakup by Country

10.5.3 Market Forecast

11 SWOT ANALYSIS

11.1 Overview

11.2 Strengths

11.3 Weaknesses

11.4 Opportunities

11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

13.1 Overview

13.2 Bargaining Power of Buyers

13.3 Bargaining Power of Suppliers

13.4 Degree of Competition

13.5 Threat of New Entrants

13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

15.1 Market Structure

15.2 Key Players

15.3 Profiles of Key Players

15.3.1 BASELAYER Technology LLC (Intermountain Electronics Inc.)

15.3.1.1 Company Overview

15.3.1.2 Product Portfolio

15.3.2 Cannon Technologies Ltd

- 15.3.2.1 Company Overview
- 15.3.2.2 Product Portfolio
- 15.3.3 Dell Technologies Inc.
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
- 15.3.4 Eaton Corporation plc
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
- 15.3.5 Hewlett Packard Enterprise Development LP
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials
 - 15.3.5.4 SWOT Analysis
- 15.3.6 Huawei Technologies Co. Ltd.
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
- 15.3.7 International Business Machines Corporation
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
 - 15.3.7.4 SWOT Analysis
- 15.3.8 Rittal GmbH & Co. KG
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
- 15.3.9 Schneider Electric SE
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
 - 15.3.9.4 SWOT Analysis
- 15.3.10 Vertiv Group Corp.
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Modular Data Center Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Modular Data Center Market Forecast: Breakup by Component (in Million US\$), 2023-2028

Table 3: Global: Modular Data Center Market Forecast: Breakup by Data Center Size (in Million US\$), 2023-2028

Table 4: Global: Modular Data Center Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Modular Data Center Market Forecast: Breakup by Industry Vertical (in Million US\$), 2023-2028

Table 6: Global: Modular Data Center Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Modular Data Center Market: Competitive Structure

Table 8: Global: Modular Data Center Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Modular Data Center Market: Major Drivers and Challenges
- Figure 2: Global: Modular Data Center Market: Sales Value (in Billion US\$), 2017-2022
- Figure 3: Global: Modular Data Center Market Forecast: Sales Value (in Billion US\$), 2023-2028
- Figure 4: Global: Modular Data Center Market: Breakup by Component (in %), 2022
- Figure 5: Global: Modular Data Center Market: Breakup by Data Center Size (in %), 2022
- Figure 6: Global: Modular Data Center Market: Breakup by Application (in %), 2022
- Figure 7: Global: Modular Data Center Market: Breakup by Industry Vertical (in %), 2022
- Figure 8: Global: Modular Data Center Market: Breakup by Region (in %), 2022
- Figure 9: Global: Modular Data Center (Solutions) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 10: Global: Modular Data Center (Solutions) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 11: Global: Modular Data Center (Services) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 12: Global: Modular Data Center (Services) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 13: Global: Modular Data Center (Small and Medium-sized Data Centers) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 14: Global: Modular Data Center (Small and Medium-sized Data Centers) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 15: Global: Modular Data Center (Large Data Centers) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 16: Global: Modular Data Center (Large Data Centers) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 17: Global: Modular Data Center (Disaster Backup) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 18: Global: Modular Data Center (Disaster Backup) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 19: Global: Modular Data Center (High Performance/ Edge Computing) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 20: Global: Modular Data Center (High Performance/ Edge Computing) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Modular Data Center (Data Center Expansion) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Modular Data Center (Data Center Expansion) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Modular Data Center (Starter Data Centers) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Modular Data Center (Starter Data Centers) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Modular Data Center (BFSI) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Modular Data Center (BFSI) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Modular Data Center (IT and Telecom) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Modular Data Center (IT and Telecom) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Modular Data Center (Retail and Manufacturing) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Modular Data Center (Retail and Manufacturing) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Modular Data Center (Healthcare) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Modular Data Center (Healthcare) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Modular Data Center (Energy) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Modular Data Center (Energy) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Global: Modular Data Center (Media and Entertainment) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Modular Data Center (Media and Entertainment) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Global: Modular Data Center (Government and Defense) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Global: Modular Data Center (Government and Defense) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Global: Modular Data Center (Other Industry Verticals) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Global: Modular Data Center (Other Industry Verticals) Market Forecast:

Sales Value (in Million US\$), 2023-2028

Figure 41: North America: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: North America: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: United States: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: United States: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Canada: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Canada: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Asia-Pacific: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Asia-Pacific: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: China: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: China: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Japan: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Japan: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: India: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: India: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: South Korea: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: South Korea: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Australia: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Australia: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Indonesia: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Indonesia: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Others: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Others: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Europe: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Europe: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Germany: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Germany: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: France: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: France: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: United Kingdom: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: United Kingdom: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Italy: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Italy: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Spain: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Spain: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Russia: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Russia: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Others: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Others: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Latin America: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Latin America: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 81: Brazil: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Brazil: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Mexico: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 84: Mexico: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 85: Others: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 86: Others: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 87: Middle East and Africa: Modular Data Center Market: Sales Value (in Million US\$), 2017 & 2022

Figure 88: Middle East and Africa: Modular Data Center Market: Breakup by Country (in %), 2022

Figure 89: Middle East and Africa: Modular Data Center Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 90: Global: Modular Data Center Industry: SWOT Analysis

Figure 91: Global: Modular Data Center Industry: Value Chain Analysis

Figure 92: Global: Modular Data Center Industry: Porter's Five Forces Analysis

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