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Micro Mobile Data Center Market by Offering (Solutions, Services), Application (Edge Computing & IoT Deployment, Temporary & Remote Operations), Rack Unit, Organization Size, Form Factor, Type, Vertical and Region - Global Forecast to 2029

https://marketpublishers.com/r/M23A13618F24EN.html
Date: May 2024
Pages: 300
Price: US$ 4,647.50 (Single User License)
ID: M23A13618F24EN

Abstracts

The micro mobile data center market is expected to grow from USD 5.2 billion in 2024 to USD 9.6 billion by 2029 at a Compound Annual Growth Rate (CAGR) of 13.3% during the forecast period. The adoption of micro mobile data centers spans various sectors, such as government & defense, healthcare, manufacturing, retail, finance, and more, offering integrated computing, storage, and networking infrastructure tailored for edge computing needs. These portable data center solutions also enable real-time data processing, seamless technological integration, and enhanced operational efficiency across diverse environments. Organizations increasingly embrace micro mobile data centers to augment their existing infrastructure, focusing on scalability, flexibility, and rapid deployment to meet evolving business demands.

'As per the rack unit, above 40 RU are expected to hold a larger market size during the forecast period.'

The high range of micro mobile data centers can support more than 40 RU. These micro mobile data centers support extensive facilities and can easily handle their requirements due to their large capacities. The micro mobile centers that install the above 40 RU are witnessing high demand due to their high-performance capabilities and lower operational costs. Companies such as Huawei, IBM, Eaton, Schneider Electric, Vertiv, and Panduit offer micro mobile data centers that support more than 40 RU.

A few advantages of these rack units are listed below:

High Capacity: These large units are typically deployed in scenarios requiring significant computing power and storage capacity, such as large-scale data processing, content delivery networks (CDNs), and enterprise applications.

Complexity: While offering substantial capacity, they are less portable and may require more infrastructure support for transportation, installation, and maintenance.

Centralized Data Processing: They are often used for centralized data processing in regional hubs or data center facilities rather than at the edge.

Enterprise Applications: They are suitable for running complex enterprise applications and workloads that demand extensive computational resources and high-speed connectivity.

'As per form factor, the containerized micro data centers segment will grow at the highest CAGR during the forecast period. '

The containerized micro data centers market is projected to increase by 15% during the forecast period. Containerized micro mobile data centers excel in portability, enabling rapid deployment in remote or temporary locations where space may be limited. At the same time, wall-mounted solutions cater to environments with strict space constraints, such as small offices or retail outlets.

The containerized micro mobile data centers market is witnessing significant growth spurred by the increasing adoption of edge computing and the demand for agile and scalable IT infrastructure. With the rise of IoT, real-time analytics, and content delivery networks, containerized micro mobile data centers provide a versatile platform for processing data closer to the source, reducing latency and improving overall performance. Moreover, the standardization and pre-integration of hardware and software components within containerized solutions streamline deployment and management, making them an attractive option for enterprises seeking to enhance their edge computing capabilities.

Based on region, the Asia Pacific region will hold the second-largest market share during the forecast period.

Asia Pacific countries, such as China, Japan, Australia and New Zealand, Singapore, India, and others, are expected to contribute significantly toward the growth of the Asia Pacific micro mobile data center solutions, as organizations worldwide increasingly invest in these data hub locations. The implementation of 5G has commenced in several countries, which will significantly impact the market, with telecommunication providers partnering with service providers in establishing edge data centers throughout the region. Further, the Asia Pacific region hosts many colocation facilities and hyperscale data centers. The region hosted over 700 data centers by hyperscale providers in late 2021.

The rapid growth of the social media and gaming sectors in the Asia Pacific has further increased the demand for an explicitly scalable architecture capable of handling complex operations. This demand can be met by the effective deployment of micro mobile data center solutions, further contributing to market growth. Due to the significant technological opportunities provided by Asia Pacific, many top vendors have set up their presence in this region. The growing demand for hyperscale and hyperconverged infrastructure, coupled with the increasing number of internet-connected users, is also fueling the growth of the region's micro mobile data center market. Leading companies, including Huawei and IBM, invest heavily in Asia Pacific to provide micro mobile data center solutions.

The breakup of the profiles of the primary participants is below:

By Company: Tier I: 30%, Tier II: 45%, and Tier III: 25%

By Designation: C-Level Executives: 35%, Director Level: 25%, and Others: 40%

By Region: North America: 45%, Europe: 20%, Asia Pacific: 30%, Rest of World: 5%

Note: Tier 1 companies have more than USD 10 billion, tier 2 companies' revenue ranges between USD 1 and 10 billion, and tier 3 companies' revenue ranges between USD 500 million and 1 billion. Other designations include sales managers, marketing managers, and product managers.

Source: Secondary Research, Interviews with Experts, and MarketsandMarkets

Analysis

Some of the significant vendors offering micro mobile data center solutions across the globe include.

Schneider Electric (France), HPE(US), Dell(US), Vertiv(US), Huawei(China), Eaton(Ireland), IBM(US), Rittal (Germany), Panduit(US), and Stulz(Germany).

Research coverage:

The market study covers the micro mobile data center market across segments. It aims to estimate the market size and the growth potential of this market across different market segments, such as offering, application, rack unit, organization size, form factor, type, verticals, and regions. It includes an in-depth competitive analysis of the key players in the market, their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Reasons to buy this report:

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall micro mobile data center market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (rise in adoption of edge computing and the emergence of 5G network connectivity, necessitating swift and efficient data processing), opportunities (emergence of smart cities and smart grids presents a compelling opportunity within the micro mobile data center market, reflecting the growing demand for intelligent and interconnected urban infrastructure), and challenges (while micro mobile data centers offer portability and flexibility, their standardized designs may not always accommodate unique or specialized needs, this poses challenges for organizations seeking tailored solutions to address specific operational demands or regulatory requirements).

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the micro mobile data center market.

Market Development: Comprehensive information about lucrative markets – the report analyses the micro mobile data center market across varied regions.

Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the micro mobile data center market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and business processes offered in the micro mobile data center market of leading players like Schneider Electric (France), HPE(US), Dell(US), Vertiv(US), Huawei(China), among others in the micro mobile data center market.

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*Details on Business overview, Products/Solutions/Services offered, Recent Developments, MnM view, Right to win, Strategic choices, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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