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Multi-Access Edge Computing Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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Abstracts

The Global Multi-Access Edge Computing Market was valued at USD 2.8 billion in 2023 and is projected to grow at a CAGR of 37.2% between 2024 and 2032. The deployment of 5G networks worldwide is a key factor driving the demand for MEC, as 5G's ultra-low latency and high bandwidth necessitate real-time data processing close to users. MEC enables this localized processing at the edge of the network, reducing delays and enhancing efficiency for applications such as autonomous vehicles, smart cities, and augmented reality. With 5G adoption on the rise, the need for MEC solutions will continue to expand, supporting innovations in telemedicine, industrial automation, and next-generation entertainment. The increasing development of smart cities and connected vehicle ecosystems is further boosting the demand for integrated edge computing solutions.

Smart cities rely on real-time data from IoT devices to manage urban infrastructure efficiently, while connected vehicles require real-time processing for safety features and communication. MEC's ability to process data quickly and locally is essential for reducing latency and ensuring the responsiveness needed in these advanced systems. In terms of market segmentation, MEC is divided into hardware and software components. In 2023, the hardware segment accounted for USD 1.6 billion of the market and continues to evolve with a focus on edge-optimized solutions.

Traditional data center hardware is being redesigned to meet the unique demands of edge computing, featuring more compact, rugged, and energy-efficient designs. Edge-specific processors, storage, and memory solutions are being developed for use in a variety of environments, from industrial facilities to remote locations. This trend toward optimized hardware is supporting broader deployments and enabling a wide range of new applications. The market is also categorized by deployment models, with cloud-based solutions expected to reach over USD 35.7 billion by 2032. The growing

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popularity of serverless computing is driving cloud adoption, as it streamlines application development by eliminating the need for server management.This model enhances flexibility, scalability, and efficiency, particularly for event-driven applications, while reducing operational costs. North America dominated the MEC market in 2023, accounting for around 43% of the market share. The region’s rapid adoption of 5G technology is fueling its growth, with a significant portion of global 5G connections originating in this region.

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Contents

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