Edge Computing Ascendant: Navigating the Expanding Frontier of Distributed Processing Growth Forecast till 2031

UNITED STATES, BURLINGAME, UNITED STATES, May 22, 2024 /EINPresswire.com/ -- The Edge Computing Market is witnessing high growth owing to increasing adoption of IoT devices and growing requirement for low-latency processing. It is estimated that over 50 billion IoT devices will be connected worldwide by 2030, generating huge amount of data. Edge computing helps process and analyze this IoT data in real-time with minimal latency. Furthermore, the need to handle mission-critical applications such as autonomous vehicles, remote surgeries and more necessitate extremely low response times which can only be achieved through edge computing infrastructure. This growing requirement for real-time, low-latency data processing is expected to drive significant growth of the Edge Computing Market over the forecast period.

Edge Computing

Driver: Increased need for lower latency and real-time access and control boosting the edge computing market

One of the major drivers for the edge computing market is the increased need for lower latency and real-time access and control across various industries and applications. With the rise of IoT, connected devices, autonomous vehicles, augmented/virtual reality applications etc requiring real-time insights and actions, centralized cloud computing is not always ideal due to high latency issues. Edge computing located at the network edge physically closer to these end point devices helps address this by processing and analyzing data closer to where it is created at the edge, thereby significantly reducing latency and response times. This makes edge computing a critical enabler for applications that have very low latency requirements or those that require offline functionality capabilities even when not connected to the centralized cloud.
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Cost reduction benefits of edge computing driving more organizations to adopt edge solutions

Another key driver for the edge computing market growth is the cost reduction benefits it provides to organizations. Processing data and workloads at the edge rather than sending everything to the centralized cloud for processing helps optimize bandwidth usage and costs as less data needs to be transferred over the network through edges. It also reduces the load on core networks since processing happens locally at edges. Additionally, edge solutions enable organizations to deploy data storage, computing power and applications closer to end users rather than relying on public cloud infrastructures, thereby eliminating dependency on the cloud and associated costs of using public cloud services, hardware maintenance costs at centralized data centers etc. These tangible cost savings are a major attraction for organizations across sectors to adopt edge computing solutions for workloads and applications suited for edge deployments.

Key Company Profiles:

Major players operating in the global edge computing market include Microsoft Corporation, IBM Corporation, Cisco Systems Inc., Google Inc., Hewlett Packard Enterprise Company, Intel Corporation, Schneider Electric SE, Nokia Corporation, Huawei Technologies Co. Ltd., and Aricent Inc.

This Report lets you identify the opportunities in Edge Computing Market by means of a region:

 North America (the United States, Canada, and Mexico)
 Europe (Germany, UK, France, Italy, Russia and Turkey, etc.)
 Asia-Pacific (China, Japan, Korea, India, Australia, and Southeast Asia (Indonesia, Thailand, Philippines, Malaysia, and Vietnam))
 South America (Brazil etc.)
 The Middle East and Africa (North Africa and GCC Countries)

Opportunity: Increasing uptake of edge computing by governments presents large market potential

One significant opportunity for the long term growth prospects of the edge computing market lies in the increasing focus and investments by governments worldwide on digital transformation agendas utilizing edge/fog computing capabilities. Governments across countries are working towards deploying edge infrastructures to enable diverse smart city and autonomous regional applications around public safety, transportation, healthcare, education etc. This includes deployments of edge servers, edge nodes, edge gateways, micro data centers at local community levels in cities and rural areas. The ability of edge to support applications requiring privacy, low latency and disconnected operation makes it well suited for governments. As more governments worldwide implement digital initiatives, edge will play a increasingly important role presenting a multi-billion dollar opportunity for edge computing vendors over the coming

years.

Trend: Convergence of edge and IoT driving next wave of edge use cases and deployments

A key emerging trend that will greatly influence future growth of the edge computing market is the convergence of edge/fog capabilities with Internet of Things (IoT) deployments across sectors. IoT is already triggering newer use cases for edge computing to support massivevolumes of data processing from billions of connected devices. Integration of edge infrastructure closer to IoT endpoints is critical to extract real-timeinsights. Edge helps offload computing and storage requirements from IoT gateways/devices while also addressing issues likeintermittent connectivity. Going forward, the IoT-edge convergence will drive the nextwave of edge adoption through newer use cases spanning autonomous machines,predictive maintenance, smart manufacturing,precision agriculture and more. This emerging trend highlights immense latent opportunities from combined IoT-edge ecosystem for the future.

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Research Scope

Scope - Highlights, Trends, Insights. Attractiveness, Forecast

Market Sizing - Product Type, End User, Offering Type, Technology, Region, Country, Others

Market Dynamics - Edge Computing Market Segmentation, Demand and Supply, Bargaining Power of Buyers and Sellers, Drivers, Restraints, Opportunities, Threat Analysis, Impact Analysis, Porters 5 Forces, Ansoff Analysis, Supply Chain

Business Framework - Case Studies, Regulatory Landscape, Pricing, Policies and Regulations, New Product Launches. M&As, Recent Developments

Competitive Landscape - Edge Computing Market Share Analysis, Market Leaders, Emerging Players, Vendor Benchmarking, Developmental Strategy Benchmarking, PESTLE Analysis, Value Chain Analysis
Key questions answered in the report include:

 How Edge Computing Market industry market will boom in 2024?

 which are prominent key players will be growing the market?

 Which enterprise size accounted for the largest data center colocation market share?

 What is the Compound Annual Growth Rate(CAGR) of the market during the forecast period (2024-2031)?

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