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# Industrial Edge Market by Edge Devices (Edge Sensors, Cameras, PLCs, DCS, HMIs), Edge Compute Devices (Industrial PCs, Single Board Computers), Edge Servers, Edge Networking (Edge Routers, Edge Gateways), Edge Platforms - Global Forecast to 2030

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## Abstracts

With a CAGR of 16.1%, the worldwide Industrial Edge market is expected to rise from USD 21.19 billion in 2025 to USD 44.73 billion in 2030. Industry drivers will include technological developments in edge computing, artificial intelligence, and IoT connection as well as need for real-time data processing in manufacturing, energy, and logistics. As the need for higher operational efficiency, lower latency, and better cybersecurity grows, the acceptance of industrial edge solutions for predictive maintenance, process optimisation, and remote monitoring is fast rising. Moreover, the increasing trend of smart, IoT-enabled edge infrastructure and industrial digitalisation worldwide has driven industrial edge solution demand in many different fields faster.

'Hardware segment to maintain significant market share during the forecast period."

The growing use of industrial PCs, edge compute devices, edge servers, and other hardware components that make up the foundation of edge computing infrastructure is expected to propel the hardware segment to dominate the Industrial Edge market and hold the largest market share during the forecast period. These devices provide real-time data analysis, storing, and analysis at or near the place of data generation, such as remote industrial sites or factory floors. Industrial PCs and edge servers are growing in popularity due to their ability to handle complex computing operations, enable advanced analytics, and link with IoT and AI applications with ease. In industrial settings, scalable, low-latency, and safe solutions are required to improve operational efficiency, predictive maintenance, and decision-making procedures. As businesses embrace industrial

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digitalisation to meet the evolving demands of manufacturing, energy, logistics, and other global industries, hardware is anticipated to be a key growth driver.

'Semiconductor & electronics industry to hold a significant market share in the Industrial Edge market'

Driven by the growing need for real-time data analytics, automated quality checks, and enhanced production efficiency, the semiconductor and electronics industry is most certainly going to grab a significant share of the industrial edge market as it expands. Edge computing reduces downtime by means of faster analytics, fault diagnosis, and predictive maintenance within the industry, therefore improving yields and quality. Industrial edge solutions offer AI-based automation in sectors with pinpoint precision processes depending on low latency and IT-OT interaction, therefore improving supply chains, equipment performance, and industrial edge solutions themselves. Due to increased demand for AI-powered chips, IoT devices, and 5G infrastructure, semiconductor and electronics companies are investing more in scalable and secure edge computing systems to boost operational resilience and competitiveness.

'Asia Pacific to lead Industrial Edge market growth with the highest CAGR, driven by rapid industrialization and technological adoption'

Asia Pacific region will witness the fastest growth, which is attributed to the advanced industrialization, increased automation adoption, and substantial government initiatives to boost smart manufacturing. Countries such as China, Japan, South Korea, and India are investing millions into industrial IoT, AI-driven automation, and edge computing infrastructure to improve manufacturing and advance further all the technologies in parallel. The region’s growing electronics, automotive, and semiconductor industries are heavily investing in Industrial Edge solutions to enable real-time data processing, predictive maintenance, and enhanced automation. Additionally, government support for industrial automation, coupled with the rise of IoT (Internet of Things) and AI (Artificial Intelligence) adoption, is accelerating the deployment of Industrial Edge platforms. With its large industrial base and increasing emphasis on technological advancements, Asia Pacific is poised to become a key growth hub for the Industrial Edge market.

Breakdown of primaries

A variety of executives from key organizations operating in the industrial edge market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.

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By Company Type: Tier 1 –45%, Tier 2 – 30%, and Tier 3 – 25%

By Designation: C-level Executives – 35%, Directors – 45%, and Others – 20%

By Region: North America – 30%, Europe – 25%, Asia Pacific – 35%, and RoW – 10%

Major players profiled in this report are as follows: Hewlett Packard Enterprise Development LP (US), IBM (US), Amazon Web Services, Inc. (US), Dell Technologies (US), and Cisco Systems, Inc. (US) and others. These leading companies possess a wide portfolio of products, establishing a prominent presence in established as well as emerging markets.

The study provides a detailed competitive analysis of these key players in the industrial edge market, presenting their company profiles, most recent developments, and key market strategies.

Research Coverage

In this report, the industrial edge market has been segmented based on component, software, application, organization size, industry and region. The component segment consists of hardware, edge software & services. The software segment consists of on-premises and cloud-based. The application segment includes predictive maintenance, real-time monitoring and control, asset tracking and management, remote monitoring and management, automation and robotics, quality control and inspection, process optimization, security and compliance, and AR/VR for industrial applications. The organization size segment categorizes the market into large enterprises and small & medium-sized enterprises (SMEs). The industry segment comprises automotive, semiconductor & electronics, oil & gas and mining, energy and power, food & beverages, pharmaceuticals, chemicals, and other industries, including water & wastewater treatment, textile, pulp & paper. The market has been segmented into four regions-North America, Asia Pacific, Europe, and RoW.

Reasons to buy the report

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and

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gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the industrial edge market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

Key Benefits of Buying the Report

Analysis of key drivers (5G network rollout, reduced latency and bandwidth costs, increasing demand for real-time decision-making in process industries, enhanced resilience and continuity, and a surge in IoT adoption), restraints (complex infrastructure requirements and interoperability issues), opportunities (expansion of smart manufacturing, growth of autonomous systems, and adoption of scalable and flexible architectures), and challenges (latency variability and cybersecurity concerns) influencing the growth of the industrial edge market.

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the industrial edge market.

Market Development: Comprehensive information about lucrative markets – the report analyses the industrial edge market across varied regions.

Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the industrial edge market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Hewlett Packard Enterprise Development LP (US), IBM (US), Amazon Web Services, Inc. (US), Dell Technologies (US), Cisco Systems, Inc. (US) and others.

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