

# **Global Industrial Edge Market Size study, by Component (Hardware, Software, Services), Deployment Mode (On-premise, Cloud-based), Organization Size, Application, End-use, and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Industrial Edge Market is valued at approximately USD 18.77 billion in 2023 and is projected to grow at a robust CAGR of over 13.40% during the forecast period 2024 to 2032. The industrial edge market is emerging as a cornerstone of digital transformation, empowering industries to bring computation and data storage closer to where data is generated. By decentralizing computing resources from centralized data centers to the edge of the network, enterprises can drive real-time data analytics, reduce latency, and enhance operational efficiency across manufacturing, logistics, and energy sectors. As industrial operations increasingly intertwine with IoT and AI-driven systems, edge computing acts as the critical infrastructure enabling intelligent decision-making and automation at scale.

This transformative shift is catalyzed by the growing emphasis on Industry 4.0 initiatives, where smart factories rely heavily on distributed computing capabilities for predictive maintenance, remote monitoring, and quality assurance. The Industrial Edge Market is witnessing accelerated adoption as companies aim to minimize downtime and optimize asset performance using real-time insights derived from edge-enabled systems. Additionally, as cyber threats become more sophisticated, the edge ecosystem offers a secure architecture for safeguarding sensitive operational data. Major industrial players are proactively embracing edge computing solutions to strengthen their competitive edge and build more resilient, agile operations.

Rising demand for low-latency data processing, along with the proliferation of connected

devices, has reshaped the contours of industrial workflows. Industry players are increasingly pivoting towards hybrid deployment models—integrating both on-premise and cloud-based edge solutions—to optimize scalability and resource allocation. Noteworthy innovations in industrial-grade hardware, such as ruggedized edge servers and gateway devices, have facilitated seamless integration of edge computing into harsh operational environments. This technological evolution is not just enhancing data throughput but also fostering a new era of automation where machines, systems, and humans co-create value at the network's edge.

Moreover, market dynamics are being redefined by strategic collaborations and multi-stakeholder partnerships aimed at accelerating edge adoption. Key industry leaders are investing heavily in research and development to refine edge platforms tailored for industrial use cases. For instance, edge-enabled digital twins and AI-integrated platforms are rapidly gaining traction for their ability to simulate and optimize production processes in real time. However, despite the promising outlook, challenges such as integration complexity, legacy infrastructure compatibility, and high initial capital expenditure may temper the pace of adoption in certain regions during the forecast period.

Regionally, North America currently dominates the global industrial edge landscape, buoyed by early technology adoption, strong infrastructure, and the presence of major market participants. The region's emphasis on automation and smart manufacturing has created a fertile ground for edge computing implementation. Europe is also making significant strides, supported by substantial investments in industrial IoT and sustainability-oriented initiatives. Meanwhile, the Asia Pacific region is poised for the fastest growth, fueled by rapid industrialization, favorable government policies, and a surge in demand for localized data processing capabilities in countries such as China, India, and Japan.

**Major market player included in this report are:**

Dell Technologies Inc.

Cisco Systems, Inc.

Hewlett Packard Enterprise

Siemens AG

IBM Corporation

Rockwell Automation, Inc.

Schneider Electric SE

Intel Corporation

Advantech Co., Ltd.

Honeywell International Inc.

Mitsubishi Electric Corporation

Emerson Electric Co.

General Electric Company

EdgeConneX Inc.

Huawei Technologies Co., Ltd.

**The detailed segments and sub-segment of the market are explained below:**

By Component

Hardware

Software

Services

By Deployment Mode

On-premise

Cloud-based

## By Organization Size

Small and Medium Enterprises (SMEs)

Large Enterprises

## By Application

Predictive Maintenance

Real-time Monitoring

Asset Management

Remote Diagnostics

Industrial Automation

Others

## By End-use

Manufacturing

Energy & Utilities

Automotive

Oil & Gas

Chemicals

Food & Beverages

Pharmaceuticals

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

**Years considered for the study are as follows:**

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

**Key Takeaways:**

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

### Companies Mentioned

Dell Technologies Inc.

Cisco Systems, Inc.

Hewlett Packard Enterprise

Siemens AG

IBM Corporation

Rockwell Automation, Inc.

Schneider Electric SE

Intel Corporation

Advantech Co., Ltd.

Honeywell International Inc.

Mitsubishi Electric Corporation

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