

Global Edge Computing in Industrial Automation Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Edge Computing in Industrial Automation market size was valued at US\$ 8817 million in 2025 and is forecast to a readjusted size of US\$ 16184 million by 2032 with a CAGR of 9.0% during review period.

Edge Computing in Industrial Automation refers to the deployment of edge nodes with computing, storage, communication and data processing capabilities near factory production lines, equipment, control systems or industrial sites. These products are used to perform local data acquisition, protocol conversion, real-time analytics, AI inference and equipment control. They typically include industrial edge gateways, edge controllers, industrial computers, edge AI boxes, edge servers and related software platforms. By reducing latency and bandwidth pressure from cloud transmission, they improve the real-time performance, reliability and security of production systems, and serve as a key infrastructure for the intelligent, digital and cloud-edge transformation of industrial automation. Edge Computing in Industrial Automation products typically range from several hundred dollars for industrial edge gateways to tens of thousands of dollars for edge AI nodes and industrial edge servers, with global annual shipments estimated at around 0.8?2.0 million units or systems.

The upstream of Edge Computing in Industrial Automation mainly includes CPUs, GPUs, NPUs, industrial motherboards, memory, communication modules, sensors, I/O modules, power supplies, thermal components, industrial operating systems, virtualization software, container platforms, industrial protocol stacks and cybersecurity software. The midstream consists of industrial automation companies, industrial computer manufacturers, edge gateway suppliers, server vendors, cloud platform

providers and system integrators, which integrate computing, connectivity, control, data management and application deployment capabilities into edge computing products and solutions suitable for industrial environments. Downstream applications are mainly found in manufacturing, automotive, electronics, machinery, energy, chemicals, food and beverage, logistics, warehousing and smart factories, supporting equipment connectivity, machine vision, quality inspection, predictive maintenance, production line optimization, energy management and remote operation.

From a market perspective, Edge Computing in Industrial Automation is evolving from traditional data acquisition and gateway connectivity toward local intelligent analytics, industrial AI deployment and cloud-edge collaborative control. As manufacturers place greater emphasis on real-time control, data security, equipment reliability and flexible production, centralized cloud computing alone is becoming insufficient for low-latency and on-site autonomy requirements, making edge computing a key component of industrial digital transformation. Future market growth will be driven by smart manufacturing upgrades, wider adoption of machine vision, penetration of predictive maintenance, industrial 5G deployment and industrial internet development, while competition will increasingly shift from hardware pricing to industrial protocol compatibility, computing performance, software ecosystem, data security and vertical solution experience.

This report is a detailed and comprehensive analysis for global Edge Computing in Industrial Automation market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Edge Computing in Industrial Automation market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Edge Computing in Industrial Automation market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Edge Computing in Industrial Automation market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Edge Computing in Industrial Automation market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Edge Computing in Industrial Automation

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Edge Computing in Industrial Automation market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens, ABB, Schneider Electric, Rockwell Automation, Bosch Rexroth, Beckhoff Automation, Phoenix Contact, WAGO, B&R Industrial Automation, Omron, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Edge Computing in Industrial Automation market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Industrial Edge Gateway

Industrial Edge Controller

Industrial Edge Computer / IPC

Edge AI Node and Edge Server

Market segment by Computing Power Level

Lightweight Edge Computing

Mid-range Edge Computing

High-performance Edge Computing

Site-level Edge Computing

Market segment by Deployment Method

Hardware Devices

Platform Software

Application Software

Services and Integration

Market segment by Application

Equipment Data Acquisition and Connectivity

Machine Vision and Quality Inspection

Predictive Maintenance and Asset Health Management

Production Process Optimization

Industrial Safety and Remote Operation

Energy and Carbon Management

Market segment by players, this report covers

Siemens

ABB

Schneider Electric

Rockwell Automation

Bosch Rexroth

Beckhoff Automation

Phoenix Contact

WAGO

B&R Industrial Automation

Omron

Mitsubishi Electric

Yokogawa Electric

Emerson

Honeywell

Cisco

Hewlett Packard Enterprise

Dell Technologies

Supermicro

Kontron

OnLogic

Eurotech

Advantech

ADLINK Technology

AAEON Technology

Moxa

Axiomtek

NEXCOM

Delta Electronics

Huawei Technologies

Lenovo

Inspur Information

H3C

InHand Networks

Robustel

SUPCON Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Global Edge Computing in Industrial Automation Market 2026 by Company, Regions, Type and Application, Forecast...

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Edge Computing in Industrial Automation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Edge Computing in Industrial Automation, with revenue, gross margin, and global market share of Edge Computing in Industrial Automation from 2021 to 2026.

Chapter 3, the Edge Computing in Industrial Automation competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Edge Computing in Industrial Automation market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Edge Computing in Industrial Automation.

Chapter 13, to describe Edge Computing in Industrial Automation research findings and conclusion.

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