

Global Industrial Edge AI Devices Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our latest research, the global Industrial Edge AI Devices market size will reach USD 5762 million in 2031, growing at a CAGR of 19.5% over the analysis period.

Industrial Edge AI Devices refer to intelligent hardware specifically designed for industrial environments, integrating artificial intelligence (AI) inference capabilities with edge computing functions. These devices typically feature powerful processors (such as GPUs, NPUs, FPGAs), multiple industrial-grade sensor interfaces, and communication modules, enabling real-time data acquisition, processing, and intelligent analysis directly at production sites or device endpoints. They perform tasks such as machine vision inspection, predictive maintenance, anomaly detection, process optimization, and intelligent control without relying heavily on cloud data transmission. This approach significantly reduces latency, improves decision-making efficiency, and enhances data security and local privacy compliance. Industrial Edge AI Devices are widely applied across sectors such as smart manufacturing, energy and utilities, automated production lines, smart logistics, industrial robotics, and petrochemical industries, making them essential components in the implementation of Industrial IoT (IIoT) and Industry 4.0 strategies.

This report is a detailed and comprehensive analysis for global Industrial Edge AI Devices 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 Industrial Edge AI Devices market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Industrial Edge AI Devices market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Industrial Edge AI Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Industrial Edge AI Devices market shares of main players, in revenue (\$ Million), 2020-2025

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 Industrial Edge AI Devices

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 Industrial Edge AI Devices 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, Emfuture, Emerson Electric, Advantech Co., Ltd., Eurotech, Contec, ABB, Beijer Electronics Group, Cisco System, Red Lion, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Industrial Edge AI Devices market is split by Type and by Application. For the period 2020-2031, 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

Edge Controller

Edge Computer

Other

Market segment by Application

Manufacturing

Logistics and Warehousing

Energy

Transportation

Other

Market segment by players, this report covers

Siemens

Emfuture

Emerson Electric

Advantech Co., Ltd.

Eurotech

Contec

ABB

Beijer Electronics Group

Cisco System

Red Lion

Digi International

Premio Inc

Nexgemo

Beckhoff

Robustel

WAGO

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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 Industrial Edge AI Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Industrial Edge AI Devices, with revenue, gross margin, and global market share of Industrial Edge AI Devices from 2020 to 2025.

Chapter 3, the Industrial Edge AI Devices 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 2020 to 2031

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 2020 to 2025.

Industrial Edge AI Devices market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Industrial Edge AI Devices.

Chapter 13, to describe Industrial Edge AI Devices research findings and conclusion.

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